

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P457451

Luminaire Tested: **GALN-SA8D-740-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457451  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8D-740-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 61146 lumens  
Efficiency: N/A  
Efficacy: 124.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

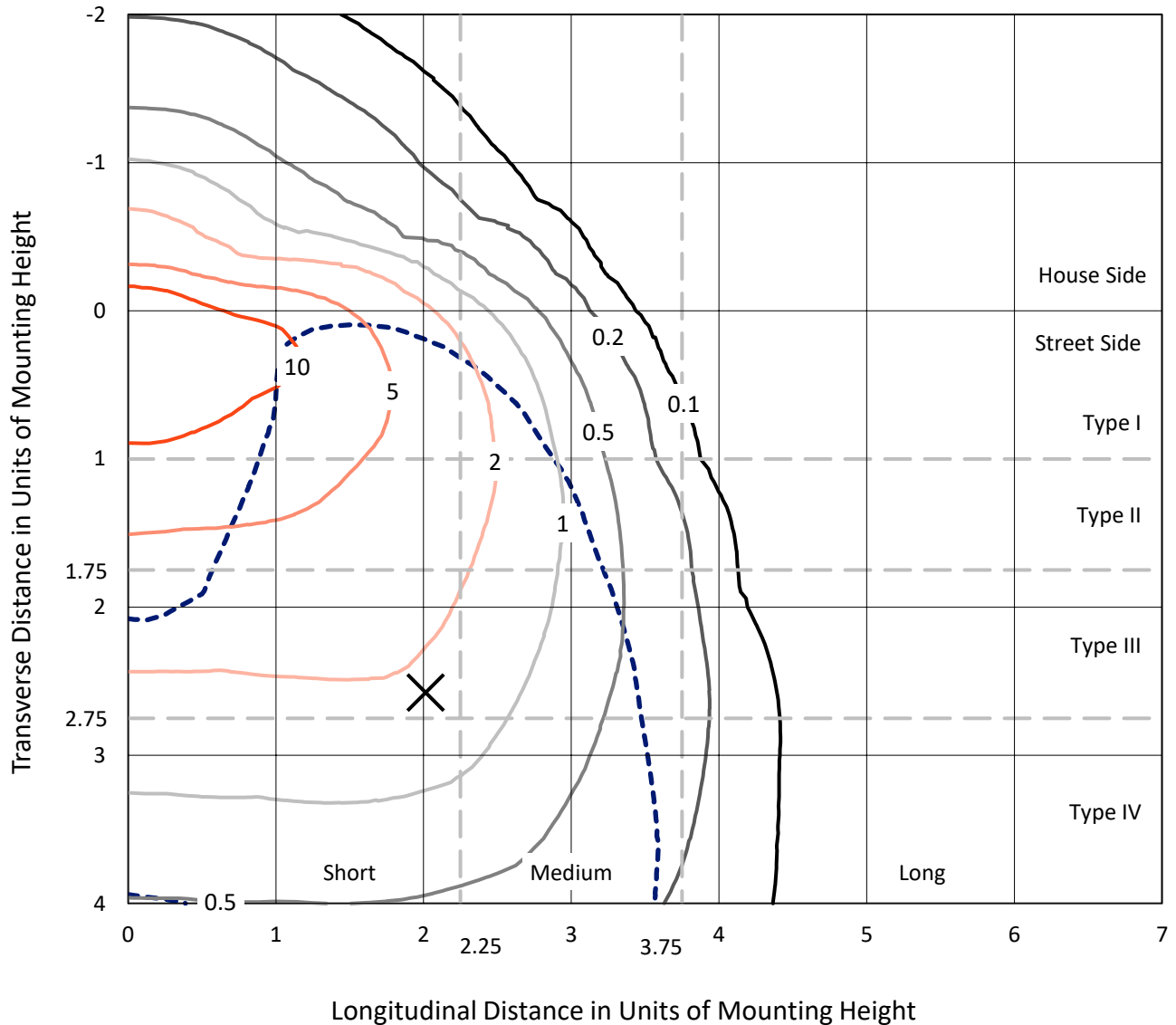
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

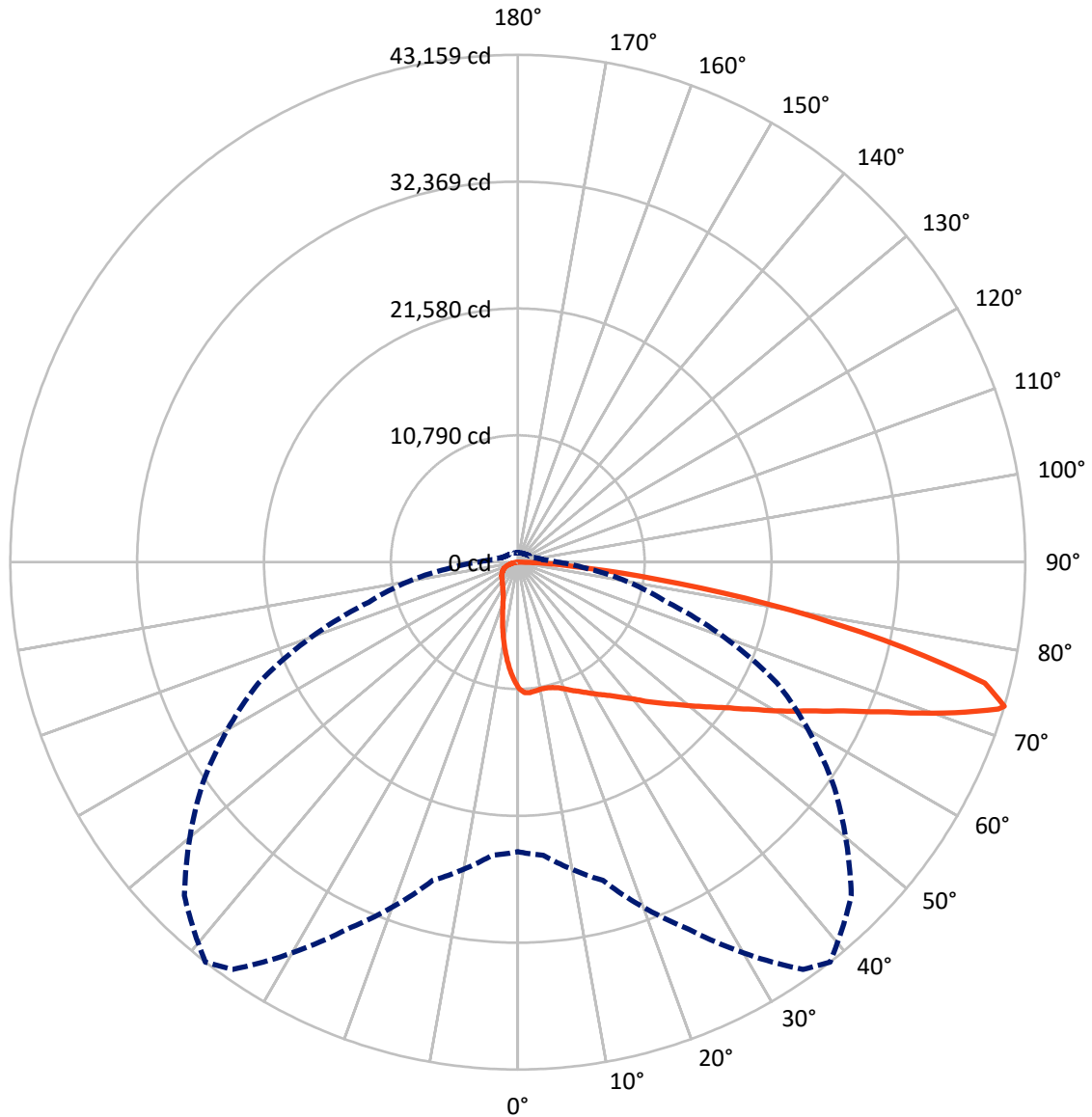
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8219.8	0.0	8219.8
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	52926.2	0.0	52926.2
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	61146.0	0.0	61146.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	937.7	1.5
10°-20°	2404.5	3.9
20°-30°	3744.3	6.1
30°-40°	5492.1	9.0
40°-50°	8146.8	13.3
50°-60°	11542.5	18.9
60°-70°	14642.0	23.9
70°-80°	12188.3	19.9
80°-90°	2047.8	3.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	61146.0	100.0
0°-180°	61146.0	100.0

**Coefficient of Utilization**



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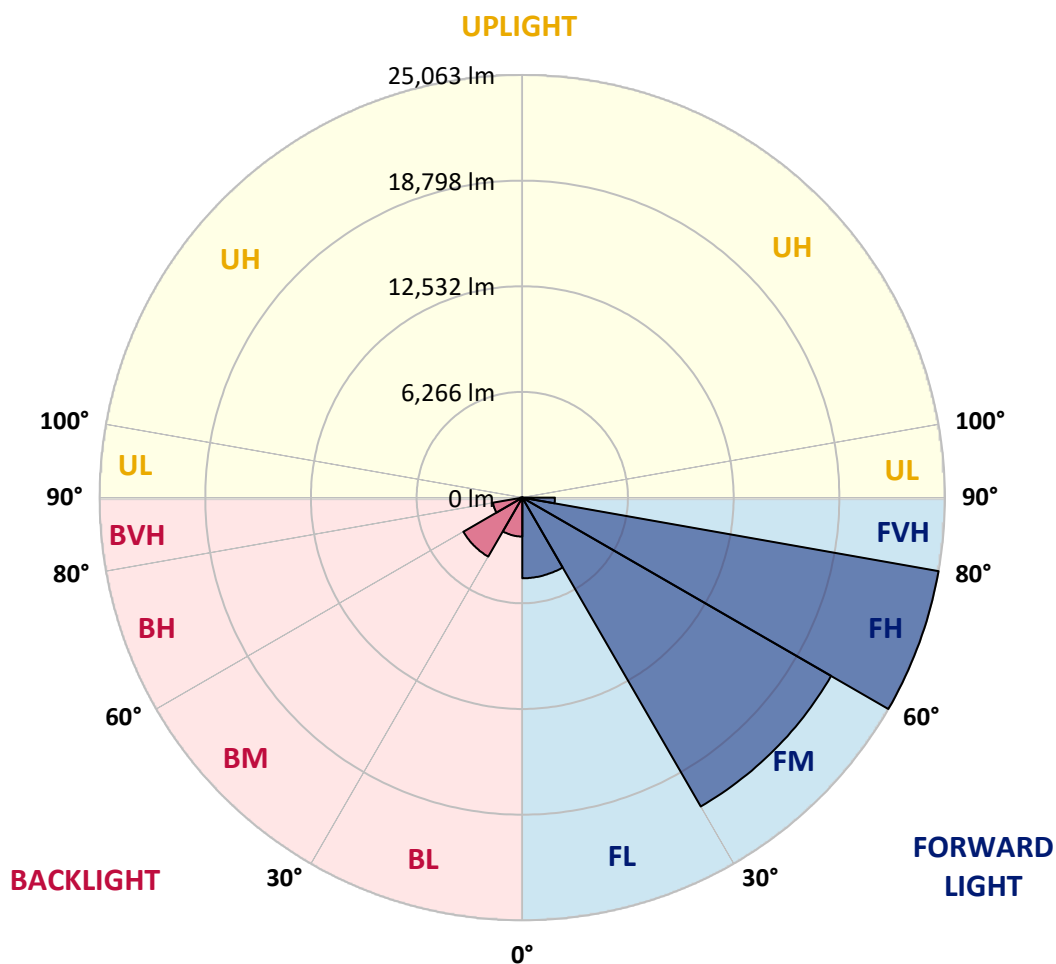
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4780.0	7.8			
FM	(30°-60°)	21145.9	34.6			
FH	(60°-80°)	25063.5	41.0			G5
FVH	(80°-90°)	1936.8	3.2			G5
BL	(0°-30°)	2306.6	3.8	B3/2500		
BM	(30°-60°)	4035.4	6.6	B3/5000		
BH	(60°-80°)	1766.8	2.9	B3/2500		G3/2500
BVH	(80°-90°)	111.1	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	10742.3	10742.3	10742.3	10742.3	10742.3	10742.3	10742.3	10742.3	10742.3	10742.3	10742.3
2.5°	11173.9	11229.2	11201.6	11163.6	11139.4	11115.2	11080.7	10980.6	10901.2	10814.8	10680.2
5°	11256.8	11291.3	11267.2	11218.8	11163.6	11139.4	11073.8	10942.6	10814.8	10669.8	10469.5
7.5°	11208.5	11222.3	11194.7	11136.0	11087.6	11042.7	10966.8	10821.7	10666.3	10490.2	10227.8
10°	11035.8	11087.6	11087.6	11039.3	10990.9	10966.8	10890.8	10752.7	10611.1	10410.8	10100.1
12.5°	10894.2	10949.5	10994.4	10980.6	10977.1	10977.1	10918.4	10814.8	10649.1	10459.2	10089.7
15°	10797.6	10863.2	10959.9	11015.1	11049.6	11060.0	11035.8	10946.0	10776.8	10555.9	10131.1
17.5°	10776.8	10856.3	11032.4	11153.2	11243.0	11239.5	11232.6	11108.3	10921.9	10694.0	10182.9
20°	10870.1	10973.7	11218.8	11408.7	11540.0	11515.8	11477.8	11315.5	11098.0	10842.5	10231.3
22.5°	11149.8	11256.8	11526.1	11733.3	11861.1	11861.1	11747.1	11533.1	11301.7	11015.1	10296.9
25°	11550.3	11667.7	11954.3	12165.0	12223.7	12178.8	12064.8	11805.8	11540.0	11263.7	10435.0
27.5°	12040.6	12182.2	12448.1	12624.2	12606.9	12572.4	12455.0	12123.5	11857.6	11605.6	10669.8
30°	12651.8	12755.4	13031.7	13073.1	13010.9	13004.0	12838.3	12506.8	12258.2	12064.8	11004.7
32.5°	13228.5	13321.7	13542.7	13560.0	13449.5	13463.3	13307.9	13004.0	12862.5	12793.4	11567.6
35°	13839.7	13888.0	14077.9	14057.2	13984.7	13974.3	13912.2	13622.1	13667.0	13791.3	12365.2
37.5°	14350.7	14447.4	14554.4	14571.7	14568.3	14602.8	14644.2	14506.1	14765.1	15155.3	13411.5
40°	14820.3	14903.2	15062.0	15117.3	15251.9	15321.0	15462.6	15466.0	16063.4	16705.7	14699.5
42.5°	15138.0	15279.6	15576.5	15676.7	16004.7	16211.9	16422.5	16647.0	17513.7	18338.9	16218.8
45°	15414.2	15600.7	16094.5	16405.3	16850.7	17102.8	17548.2	18017.8	19264.3	20345.1	17762.3
47.5°	15832.1	15997.8	16564.1	17113.1	17786.5	18076.5	18742.9	19443.9	21073.7	22258.1	19240.2
50°	16412.2	16512.3	17088.9	17983.3	18843.1	19216.0	20096.5	21108.3	23007.4	24146.9	20538.5
52.5°	17154.6	17196.0	17655.2	18846.5	19979.1	20441.8	21608.9	22789.9	24699.4	25787.1	21567.5
55°	18031.6	17962.6	18321.7	19761.6	21277.5	21881.7	23135.2	24492.2	26602.0	27113.0	22316.8
57.5°	18898.3	18791.3	19077.9	20873.4	22879.6	23608.2	25068.9	26246.3	28300.9	28352.7	22841.7
60°	19816.8	19737.4	20079.3	22178.7	24844.4	25707.7	27057.8	28066.1	29944.5	29215.9	22924.5
62.5°	20759.5	20631.7	21118.6	23646.2	27057.8	27841.6	29150.3	29999.8	31557.1	29537.1	22126.9
65°	21674.5	21615.8	22368.6	25390.0	29578.5	30469.4	31740.1	32316.7	32848.5	29053.6	20148.3
67.5°	22648.3	22765.7	23967.3	27717.3	32865.8	33984.5	35355.4	34813.3	33218.0	26764.3	16968.1
70°	24133.1	24209.1	26066.8	30766.3	37102.6	38452.7	39115.7	35700.7	31436.2	22416.9	12755.4
72.5°	24771.9	25106.8	27941.8	33967.3	41916.1	42741.4	40379.5	33722.1	26187.6	15227.8	6702.3
73°	24630.3	25030.9	28028.1	34454.1	42292.5	43159.2	40110.2	32703.5	24343.7	13114.5	5745.8
75°	22865.8	23359.6	26905.9	34046.7	41560.4	41042.5	35780.1	27872.7	16450.1	5963.3	2617.4
77.5°	18042.0	18183.6	21318.9	27492.9	32727.6	31767.7	26778.1	17420.4	6719.6	2216.8	1484.8
80°	9050.3	9571.7	12016.5	15749.2	21885.2	21571.0	16902.5	8238.9	2800.4	1301.8	984.1
82.5°	4354.2	4723.7	5852.9	7679.5	12092.4	11805.8	8370.1	4502.7	1778.3	759.7	580.1
85°	2803.8	3080.1	3725.8	3663.6	4972.3	4747.9	3760.3	3408.1	1053.2	397.1	404.0
87.5°	1850.8	2026.9	2430.9	1944.0	1809.4	1636.7	1660.9	1919.9	207.2	151.9	55.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10742.3	10742.3	10742.3	10742.3	10742.3	10742.3	10742.3	10742.3	10742.3	10742.3	10742.3
2.5°	10624.9	10580.0	10431.5	10286.5	10148.4	10017.2	9930.9	9816.9	9740.9	9761.7	9792.7
5°	10359.0	10258.9	9996.5	9740.9	9499.2	9212.6	8981.3	8794.8	8653.2	8601.4	8591.1
7.5°	10079.3	9910.1	9533.8	9095.2	8684.3	8328.7	7917.8	7714.0	7475.8	7392.9	7365.3
10°	9910.1	9682.2	9153.9	8542.7	7924.7	7334.2	6888.8	6526.2	6198.2	6136.0	6104.9
12.5°	9861.8	9561.4	8850.1	8062.8	7241.0	6515.8	5856.3	5379.8	5062.1	4989.6	4882.6
15°	9834.2	9461.2	8566.9	7579.4	6536.5	5652.6	4958.5	4402.6	4112.5	3919.2	3922.6
17.5°	9810.0	9347.3	8249.2	7051.0	5928.8	4910.2	4143.6	3642.9	3377.0	3273.5	3263.1
20°	9775.5	9212.6	7883.2	6495.1	5234.8	4233.4	3539.3	3166.4	2986.9	2900.5	2897.1
22.5°	9761.7	9081.4	7524.1	5928.8	4620.1	3712.0	3138.8	2876.4	2762.4	2703.7	2703.7
25°	9796.2	8988.2	7147.7	5390.1	4074.6	3266.5	2862.5	2683.0	2617.4	2586.3	2575.9
27.5°	9903.2	8946.8	6774.8	4851.5	3573.9	2962.7	2676.1	2551.8	2503.4	2479.3	2482.7
30°	10107.0	8943.3	6408.8	4319.7	3200.9	2731.3	2527.6	2441.3	2403.3	2389.5	2386.0
32.5°	10435.0	9019.3	6049.7	3881.2	2886.7	2538.0	2389.5	2327.3	2310.1	2299.7	2296.3
35°	10990.9	9233.4	5694.0	3480.6	2645.0	2365.3	2258.3	2227.2	2203.0	2213.4	2216.8
37.5°	11740.2	9602.8	5355.6	3166.4	2462.0	2237.6	2147.8	2120.1	2106.3	2116.7	2127.1
40°	12745.1	10134.6	5072.5	2914.3	2330.8	2130.5	2051.1	2026.9	2013.1	2030.4	2033.8
42.5°	13853.5	10749.2	4837.7	2717.5	2223.7	2040.7	1964.8	1937.1	1926.8	1937.1	1940.6
45°	14993.0	11464.0	4716.8	2575.9	2134.0	1975.1	1895.7	1864.6	1840.5	1833.5	1843.9
47.5°	16115.2	12085.5	4713.4	2489.6	2061.4	1916.4	1830.1	1795.6	1764.5	1747.2	1743.8
50°	17030.2	12579.3	4796.2	2451.6	1999.3	1850.8	1764.5	1730.0	1688.5	1654.0	1660.9
52.5°	17720.9	12900.4	4834.2	2434.4	1964.8	1781.8	1695.4	1664.4	1616.0	1571.1	1571.1
55°	18166.3	12976.4	4741.0	2417.1	1937.1	1709.2	1616.0	1588.4	1540.0	1495.2	1495.2
57.5°	18318.2	12741.6	4406.0	2375.7	1909.5	1647.1	1536.6	1512.4	1474.4	1429.5	1422.6
60°	17966.0	11947.4	3819.0	2251.4	1854.3	1581.5	1450.3	1439.9	1426.1	1388.1	1384.7
62.5°	16609.0	10262.3	3180.2	2089.1	1761.0	1512.4	1370.8	1388.1	1398.5	1377.8	1374.3
65°	14350.7	8332.1	2717.5	1864.6	1636.7	1415.7	1284.5	1329.4	1357.0	1357.0	1350.1
67.5°	11640.1	6398.4	2289.3	1671.3	1481.3	1284.5	1187.8	1222.4	1243.1	1236.2	1253.4
70°	8273.4	4333.5	1864.6	1450.3	1284.5	1136.0	1063.5	1063.5	1049.7	1042.8	1042.8
72.5°	4012.4	2475.8	1512.4	1212.0	1094.6	970.3	911.6	887.4	859.8	856.3	839.1
73°	3352.9	2220.3	1443.4	1167.1	1049.7	946.1	880.5	842.5	825.3	811.5	808.0
75°	2040.7	1685.1	1205.1	984.1	894.3	814.9	756.2	721.7	704.4	694.1	690.6
77.5°	1343.2	1256.9	935.8	752.8	683.7	635.4	611.2	576.7	566.3	552.5	552.5
80°	1001.4	959.9	669.9	531.8	490.3	448.9	442.0	435.1	407.5	390.2	383.3
82.5°	645.7	683.7	455.8	355.7	310.8	276.2	279.7	290.1	262.4	238.3	231.4
85°	459.3	493.8	276.2	162.3	131.2	113.9	127.8	113.9	117.4	93.2	76.0
87.5°	76.0	131.2	48.3	20.7	10.4	6.9	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)