

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: P457449

Luminaire Tested: **GALN-SA8D-740-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
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-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61916 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

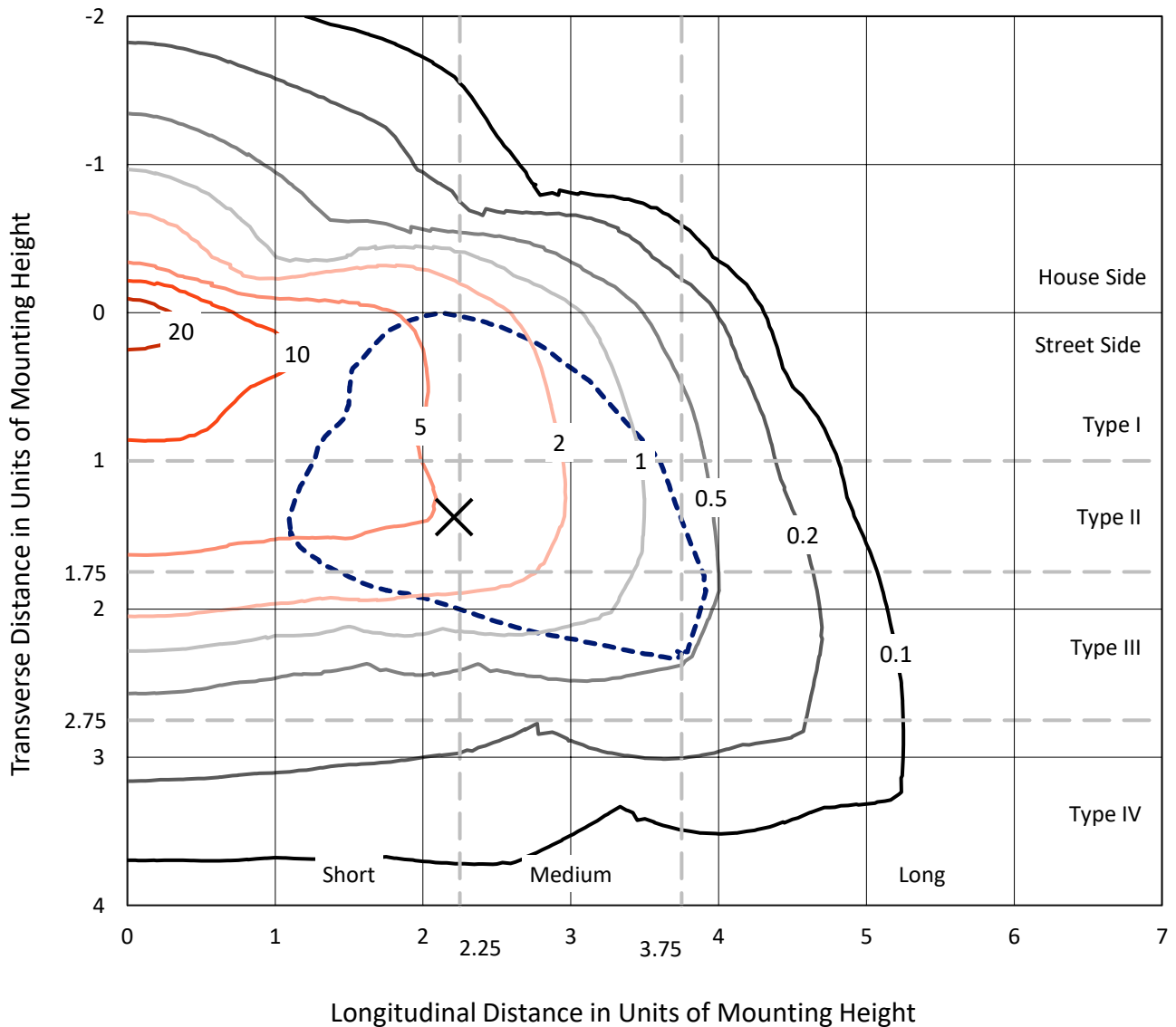
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

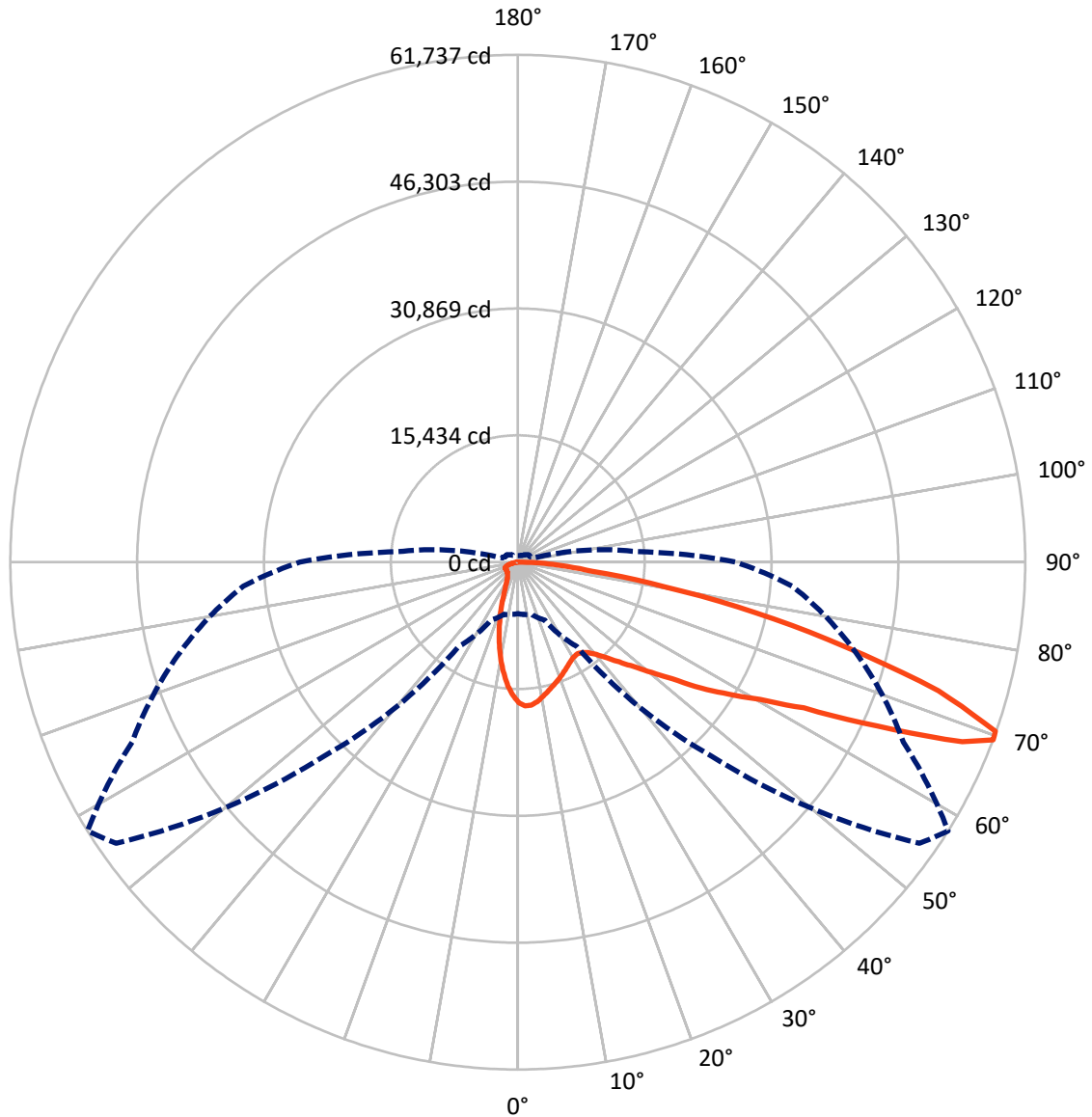
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9073.8	0.0	9073.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	52842.2	0.0	52842.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	61916.0	0.0	61916.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1453.0	2.3
10°-20°	3190.7	5.2
20°-30°	4122.4	6.7
30°-40°	5354.2	8.6
40°-50°	7784.2	12.6
50°-60°	12421.0	20.1
60°-70°	16592.9	26.8
70°-80°	9565.1	15.4
80°-90°	1432.7	2.3
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°	61916.0	100.0
0°-180°	61916.0	100.0

Coefficient of Utilization



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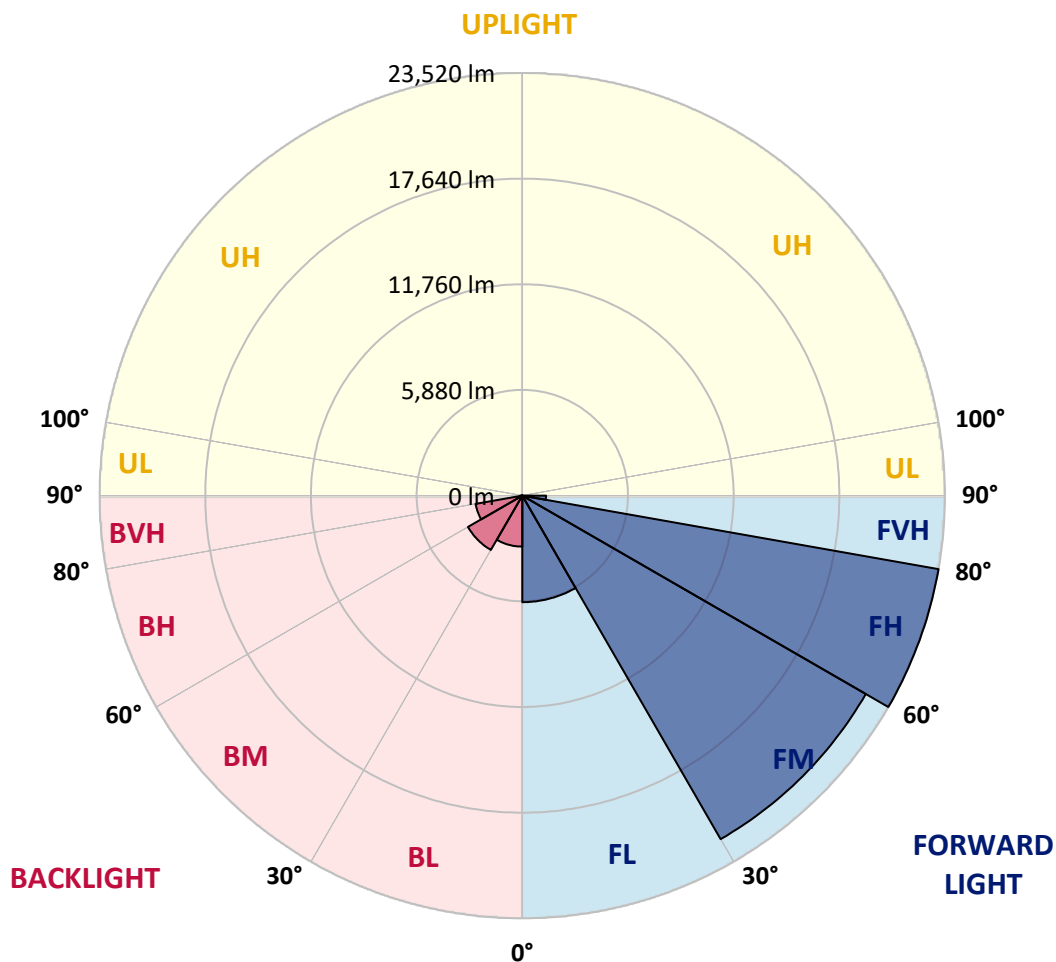
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5930.0	9.6			
FM	(30°-60°)	22069.8	35.6			
FH	(60°-80°)	23519.5	38.0			G5
FVH	(80°-90°)	1322.9	2.1			G5
BL	(0°-30°)	2836.1	4.6	B4/5000		
BM	(30°-60°)	3489.5	5.6	B3/5000		
BH	(60°-80°)	2638.5	4.3	B4/5000		G4/5000
BVH	(80°-90°)	109.8	0.2			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	17110.0	17110.0	17110.0	17110.0	17110.0	17110.0	17110.0	17110.0	17110.0	17110.0	17110.0
2.5°	17745.3	17793.7	17779.9	17762.6	17735.0	17659.0	17534.7	17514.0	17434.5	17265.3	17054.7
5°	17472.5	17514.0	17517.4	17541.6	17576.1	17562.3	17472.5	17462.2	17344.8	17116.9	16764.7
7.5°	16536.7	16592.0	16712.9	16847.5	16968.4	17082.3	17110.0	17127.2	17054.7	16792.3	16322.7
10°	15483.6	15538.8	15594.1	15794.3	16091.3	16374.5	16609.3	16640.3	16657.6	16415.9	15842.7
12.5°	14316.4	14430.4	14547.8	14844.7	15241.8	15687.3	16101.7	16167.3	16284.7	16101.7	15428.3
15°	13325.4	13442.8	13612.0	13877.9	14357.9	15000.1	15583.7	15690.7	15922.1	15828.9	15041.6
17.5°	12638.2	12679.7	12797.1	13100.9	13618.9	14295.7	15076.1	15290.2	15659.7	15635.5	14710.1
20°	12096.1	12147.9	12220.4	12406.9	12945.6	13660.3	14603.0	14879.3	15380.0	15462.8	14382.0
22.5°	11868.2	11906.2	11895.8	11996.0	12362.0	13080.2	14123.1	14451.1	15131.3	15345.4	14078.2
25°	11882.0	11916.5	11864.7	11840.6	12058.1	12569.2	13622.4	14040.2	14931.1	15266.0	13801.9
27.5°	12113.4	12137.5	12040.9	11944.2	11961.4	12251.5	13208.0	13670.7	14761.9	15300.5	13570.6
30°	12424.1	12469.0	12406.9	12289.5	12161.7	12175.5	12942.1	13397.9	14682.4	15421.4	13460.1
32.5°	12824.7	12866.1	12838.5	12745.3	12579.5	12396.5	12876.5	13297.8	14689.4	15666.6	13435.9
35°	13246.0	13328.8	13373.7	13366.8	13232.2	12914.5	13135.5	13484.2	14855.1	16077.5	13577.5
37.5°	13722.5	13791.6	13984.9	14109.2	13984.9	13615.5	13719.0	13960.8	15221.1	16671.4	13888.2
40°	14185.2	14288.8	14572.0	14958.7	14910.4	14585.8	14609.9	14768.8	15866.9	17555.4	14496.0
42.5°	14668.6	14792.9	15286.7	15859.9	15973.9	15721.8	15787.4	15929.0	16785.4	18781.2	15538.8
45°	15290.2	15438.7	16046.4	16761.2	17210.1	17054.7	17241.2	17310.2	18014.7	20376.6	16913.1
47.5°	16091.3	16264.0	17013.3	17904.2	18539.5	18681.1	19005.7	18964.3	19537.5	22265.4	18694.9
50°	17441.5	17538.1	18246.0	19154.2	20027.8	20666.6	21018.8	21084.4	21426.3	24102.4	20687.3
52.5°	19047.1	19133.5	19644.5	20438.7	21533.3	22886.9	23757.1	23543.0	23625.9	26340.0	23018.2
55°	20853.1	20998.1	21322.7	21851.0	23270.2	25262.7	27009.9	27061.7	26143.2	28480.9	25252.3
57.5°	22251.6	22496.7	23052.7	23805.5	25604.5	27904.3	30252.3	30286.9	29112.8	30766.8	27717.8
60°	21547.2	21837.2	23107.9	24941.5	28667.4	32514.1	34126.7	33929.9	32003.0	33370.5	30725.4
62.5°	18508.5	18560.2	20407.6	23273.7	29610.1	38681.3	39893.3	39061.1	35860.1	36671.6	33781.4
65°	11978.7	12317.1	13781.2	17797.1	26512.7	42103.3	49997.0	48073.6	41267.6	40418.2	36340.1
67.5°	7562.2	7475.9	8083.6	10162.4	18235.7	39088.7	58619.3	58315.4	48339.5	42783.5	35728.9
69°	6270.8	6367.5	6574.6	7790.1	12548.5	33373.9	59638.0	61737.4	51768.4	42597.1	33508.6
70°	5687.2	5732.1	5949.6	6906.1	9682.4	27952.6	57966.7	61644.2	53115.1	41816.7	31899.5
72.5°	4513.2	4509.7	4882.6	5745.9	7237.6	15956.6	47597.1	53519.1	51609.6	38184.0	26357.3
75°	3428.9	3484.1	3895.1	4861.9	6667.9	8719.0	33215.1	41215.8	41219.3	30159.1	16447.0
77.5°	2472.4	2506.9	2986.9	4081.5	6281.1	7068.4	22123.8	29561.7	27790.3	13819.2	5169.2
80°	1619.5	1640.2	2006.2	3232.1	5663.0	6667.9	13118.2	18094.1	13107.9	3667.2	1709.3
82.5°	887.4	991.0	1225.8	2092.6	4544.2	6160.3	7973.1	9157.5	4917.2	1633.3	890.9
85°	445.4	473.1	690.6	1222.4	2969.6	5096.7	5552.5	5252.1	2538.0	811.5	462.7
87.5°	131.2	165.7	286.6	473.1	1205.1	2655.4	3090.5	2772.8	977.2	293.5	96.7
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°	17110.0	17110.0	17110.0	17110.0	17110.0	17110.0	17110.0	17110.0	17110.0	17110.0	17110.0
2.5°	16968.4	16906.2	16630.0	16381.4	16153.5	15911.7	15708.0	15528.5	15545.7	15549.2	15366.2
5°	16581.6	16440.1	15915.2	15424.9	15010.5	14485.6	14036.7	13746.7	13601.6	13408.3	13477.3
7.5°	16056.8	15784.0	15055.4	14240.5	13477.3	12797.1	12058.1	11550.5	11225.9	10911.7	10953.1
10°	15514.6	15076.1	14016.0	12938.7	11951.1	10863.4	9920.7	9112.6	8511.8	8287.4	8138.9
12.5°	14958.7	14382.0	13035.3	11602.3	10238.3	8936.5	7600.2	6733.5	6070.5	5718.3	5763.2
15°	14451.1	13750.1	12013.2	10266.0	8494.6	6944.1	5611.2	4786.0	4323.2	4226.6	4281.8
17.5°	13981.5	13063.0	11056.7	8967.6	6899.2	5207.2	4216.2	3750.0	3563.6	3511.8	3508.3
20°	13498.0	12479.4	9982.8	7579.5	5376.4	4036.6	3460.0	3242.4	3207.9	3228.6	3232.1
22.5°	13007.7	11757.7	8877.8	6201.7	4281.8	3301.1	3024.9	2966.2	2993.8	3042.2	3049.1
25°	12555.4	11122.3	7814.3	4993.1	3418.5	2900.6	2765.9	2765.9	2828.1	2900.6	2904.0
27.5°	12182.4	10507.7	6754.2	3964.1	2862.6	2610.5	2565.6	2589.8	2676.1	2731.4	2734.8
30°	11875.1	9934.5	5752.8	3176.8	2517.3	2379.2	2368.8	2410.2	2472.4	2524.2	2527.6
32.5°	11643.7	9430.3	4817.0	2669.2	2279.0	2203.1	2199.6	2230.7	2265.2	2279.0	2292.8
35°	11554.0	9012.5	3960.7	2348.1	2120.2	2071.8	2071.8	2068.4	2082.2	2089.1	2096.0
37.5°	11626.5	8691.4	3297.7	2140.9	2002.8	1968.2	1947.5	1926.8	1919.9	1919.9	1923.4
40°	11933.8	8522.2	2803.9	2006.2	1919.9	1868.1	1830.1	1806.0	1781.8	1788.7	1795.6
42.5°	12586.4	8553.3	2468.9	1916.5	1847.4	1774.9	1719.6	1692.0	1674.7	1695.5	1692.0
45°	13625.8	8864.0	2254.9	1854.3	1774.9	1681.6	1629.8	1602.2	1602.2	1633.3	1643.7
47.5°	15079.6	9458.0	2140.9	1806.0	1719.6	1609.1	1557.3	1536.6	1543.5	1595.3	1598.8
50°	16854.4	10490.4	2120.2	1781.8	1692.0	1557.3	1498.6	1477.9	1495.2	1550.4	1557.3
52.5°	18812.3	11819.9	2220.3	1785.2	1667.8	1526.3	1450.3	1419.2	1436.5	1481.4	1495.2
55°	21132.8	13484.2	2479.3	1799.0	1633.3	1509.0	1415.8	1346.7	1367.4	1398.5	1401.9
57.5°	23501.6	15583.7	2935.1	1802.5	1605.7	1477.9	1357.1	1267.3	1267.3	1288.0	1298.4
60°	26395.3	17869.6	3535.9	1806.0	1609.1	1433.0	1277.6	1177.5	1163.7	1174.0	1177.5
62.5°	29268.2	19782.6	3636.1	1795.6	1643.7	1388.1	1191.3	1087.7	1063.5	1060.1	1053.2
65°	30535.5	19427.0	2980.0	1747.3	1681.6	1360.5	1122.2	1001.4	960.0	946.1	946.1
67.5°	28470.6	16433.2	2241.0	1681.6	1657.5	1332.9	1056.6	928.9	880.5	852.9	852.9
69°	26529.9	14616.8	2013.1	1636.8	1595.3	1288.0	1015.2	890.9	832.2	801.1	790.8
70°	25031.3	13366.8	1916.5	1598.8	1536.6	1236.2	984.1	863.3	797.7	763.1	756.2
72.5°	19976.0	10487.0	1678.2	1453.7	1308.7	1039.4	873.6	776.9	714.8	676.8	666.4
75°	11512.5	5683.8	1391.6	1263.8	1053.2	808.0	739.0	676.8	628.5	593.9	583.6
77.5°	3542.8	2196.2	1008.3	997.9	773.5	625.0	590.5	566.3	531.8	493.8	486.9
80°	1491.7	1118.8	683.7	673.3	514.5	435.1	424.7	421.3	407.5	376.4	366.0
82.5°	818.4	631.9	476.5	414.4	310.8	252.1	262.4	265.9	255.5	224.4	203.7
85°	400.6	345.3	231.4	186.5	141.6	89.8	86.3	103.6	96.7	69.1	76.0
87.5°	79.4	96.7	62.2	27.6	13.8	0.0	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)