

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: P459394

Luminaire Tested: **GALN-SA8C-735-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459394  
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-SA8C-735-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 1050mA 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: 51766 lumens  
Efficiency: N/A  
Efficacy: 120.7 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

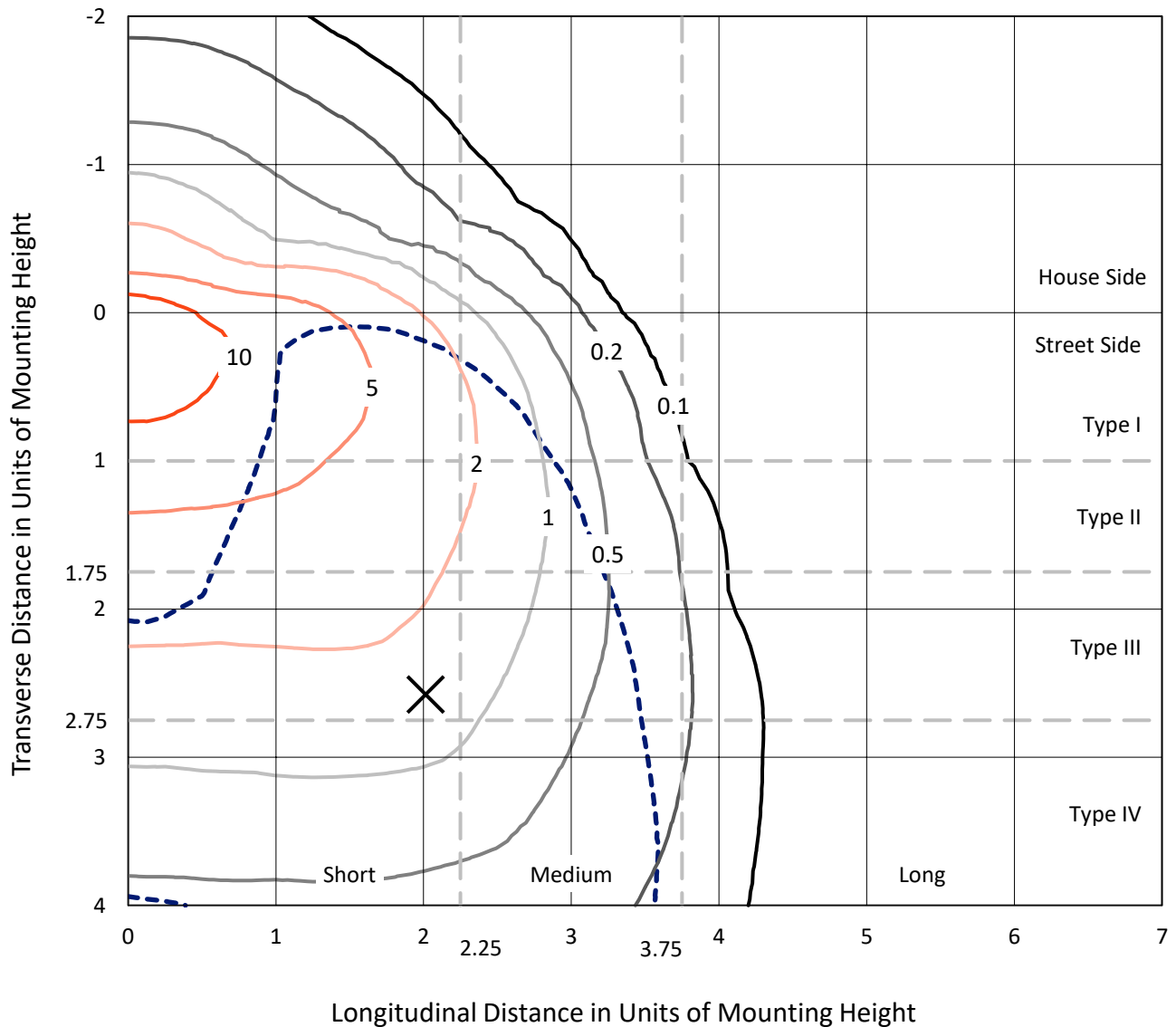
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

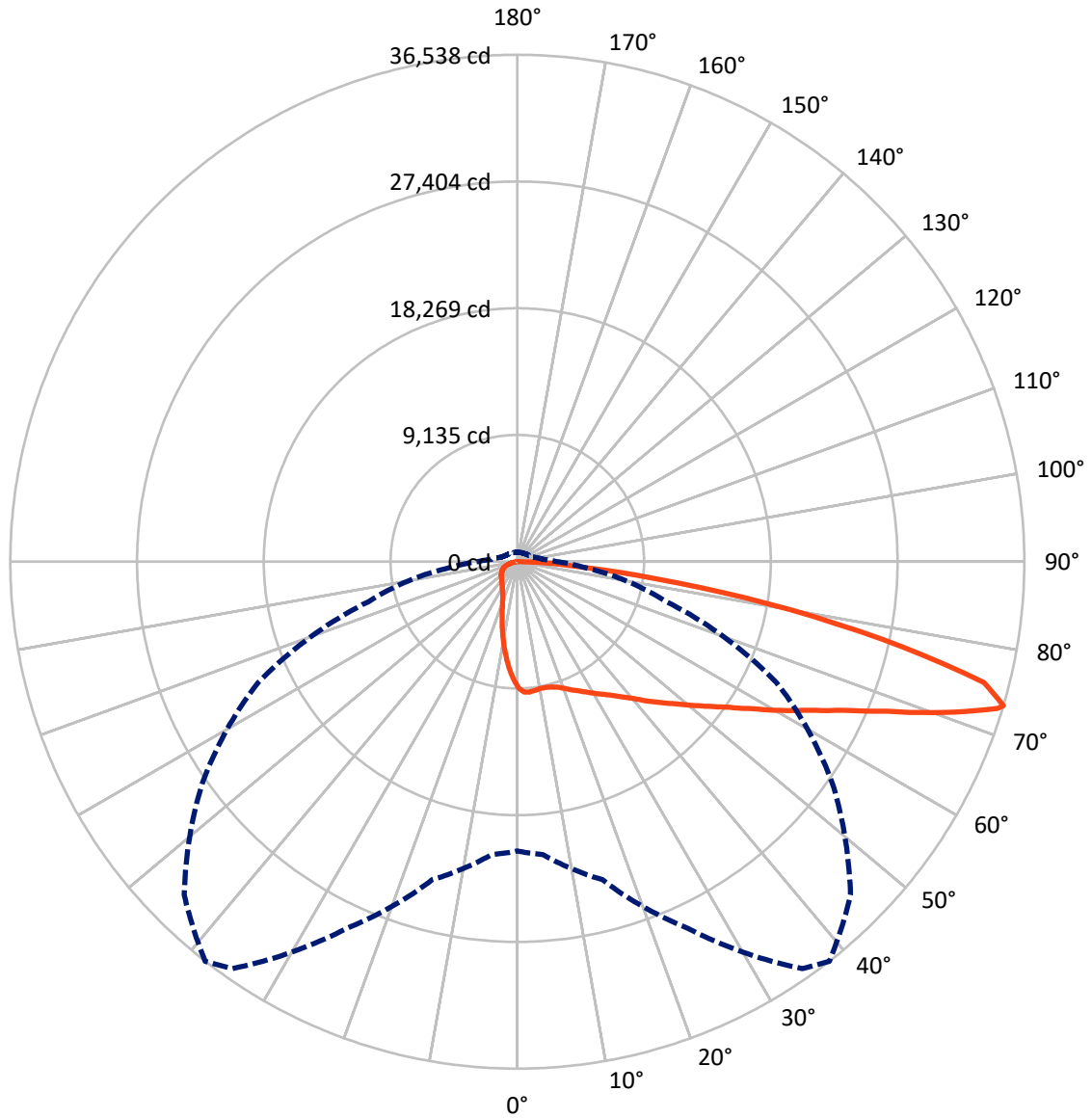
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 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	6958.9	0.0	6958.9
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	44807.1	0.0	44807.1
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	51766.0	0.0	51766.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	793.8	1.5
10°-20°	2035.7	3.9
20°-30°	3169.9	6.1
30°-40°	4649.6	9.0
40°-50°	6897.1	13.3
50°-60°	9771.8	18.9
60°-70°	12395.8	23.9
70°-80°	10318.6	19.9
80°-90°	1733.7	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°	51766.0	100.0
0°-180°	51766.0	100.0

**Coefficient of Utilization**



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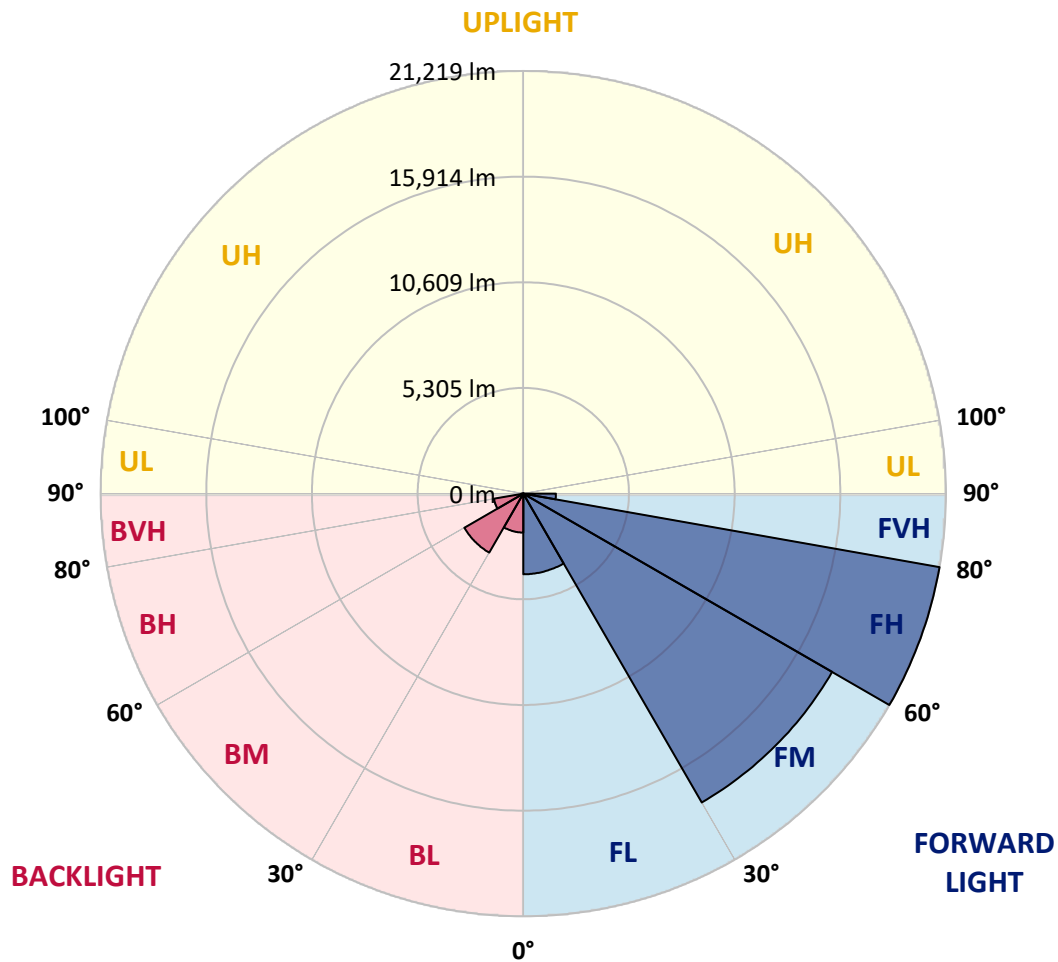
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4046.7	7.8			
FM	(30°-60°)	17902.1	34.6			
FH	(60°-80°)	21218.7	41.0			G5
FVH	(80°-90°)	1639.7	3.2			G5
BL	(0°-30°)	1952.7	3.8	B3/2500		
BM	(30°-60°)	3416.4	6.6	B3/5000		
BH	(60°-80°)	1495.8	2.9	B3/2500		G3/2500
BVH	(80°-90°)	94.0	0.2			G1/100
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°	9094.4	9094.4	9094.4	9094.4	9094.4	9094.4	9094.4	9094.4	9094.4	9094.4	9094.4
2.5°	9459.8	9506.6	9483.2	9451.1	9430.6	9410.1	9380.9	9296.1	9228.9	9155.8	9041.8
5°	9530.0	9559.2	9538.8	9497.8	9451.1	9430.6	9375.0	9264.0	9155.8	9033.0	8863.5
7.5°	9489.1	9500.7	9477.4	9427.7	9386.7	9348.7	9284.4	9161.6	9030.1	8881.0	8658.8
10°	9342.9	9386.7	9386.7	9345.8	9304.9	9284.4	9220.1	9103.2	8983.3	8813.8	8550.7
12.5°	9223.0	9269.8	9307.8	9296.1	9293.2	9293.2	9243.5	9155.8	9015.5	8854.7	8541.9
15°	9141.2	9196.7	9278.6	9325.4	9354.6	9363.4	9342.9	9266.9	9123.6	8936.6	8577.0
17.5°	9123.6	9190.9	9340.0	9442.3	9518.3	9515.4	9509.5	9404.3	9246.4	9053.5	8620.8
20°	9202.6	9290.3	9497.8	9658.6	9769.7	9749.2	9717.1	9579.7	9395.5	9179.2	8661.8
22.5°	9439.4	9530.0	9758.0	9933.4	10041.6	10041.6	9945.1	9763.8	9568.0	9325.4	8717.3
25°	9778.5	9877.9	10120.5	10298.8	10348.5	10310.5	10214.0	9994.8	9769.7	9535.8	8834.2
27.5°	10193.6	10313.4	10538.5	10687.6	10673.0	10643.8	10544.4	10263.7	10038.6	9825.2	9033.0
30°	10711.0	10798.7	11032.6	11067.6	11015.0	11009.2	10868.9	10588.2	10377.7	10214.0	9316.6
32.5°	11199.2	11278.1	11465.2	11479.8	11386.3	11398.0	11266.4	11009.2	10889.3	10830.9	9793.1
35°	11716.6	11757.5	11918.3	11900.8	11839.4	11830.6	11778.0	11532.4	11570.5	11675.7	10468.4
37.5°	12149.3	12231.1	12321.7	12336.4	12333.4	12362.7	12397.7	12280.8	12500.1	12830.4	11354.1
40°	12546.8	12617.0	12751.5	12798.2	12912.2	12970.7	13090.6	13093.5	13599.2	14143.0	12444.5
42.5°	12815.8	12935.6	13187.0	13271.8	13549.5	13724.9	13903.2	14093.3	14827.0	15525.7	13730.8
45°	13049.6	13207.5	13625.5	13888.6	14265.7	14479.1	14856.2	15253.8	16309.1	17224.1	15037.5
47.5°	13403.4	13543.7	14023.1	14487.9	15058.0	15303.5	15867.7	16461.1	17840.9	18843.6	16288.7
50°	13894.5	13979.3	14467.4	15224.6	15952.5	16268.2	17013.6	17870.2	19478.0	20442.7	17387.8
52.5°	14523.0	14558.1	14946.9	15955.4	16914.3	17306.0	18294.1	19293.8	20910.4	21831.3	18259.0
55°	15265.5	15207.0	15511.1	16730.1	18013.4	18525.0	19586.2	20735.0	22521.2	22953.8	18893.3
57.5°	15999.3	15908.6	16151.3	17671.4	19369.8	19986.7	21223.2	22220.1	23959.4	24003.3	19337.7
60°	16776.9	16709.6	16999.0	18776.4	21033.2	21764.0	22907.0	23760.6	25350.9	24734.1	19407.8
62.5°	17574.9	17466.8	17878.9	20018.8	22907.0	23570.6	24678.6	25397.7	26716.1	25006.0	18732.6
65°	18349.6	18299.9	18937.2	21495.1	25041.0	25795.3	26871.0	27359.2	27809.4	24596.7	17057.5
67.5°	19174.0	19273.4	20290.7	23465.4	27824.0	28771.2	29931.7	29472.8	28122.2	22658.6	14365.1
70°	20431.0	20495.3	22068.0	26046.7	31410.9	32553.9	33115.2	30224.1	26613.8	18978.1	10798.7
72.5°	20971.8	21255.4	23655.4	28756.6	35486.0	36184.7	34185.2	28549.0	22170.4	12891.8	5674.1
73°	20852.0	21191.1	23728.5	29168.8	35804.7	36538.4	33957.1	27686.6	20609.3	11102.7	4864.4
75°	19358.1	19776.2	22778.4	28823.8	35184.9	34746.4	30291.3	23596.9	13926.6	5048.6	2215.9
77.5°	15274.3	15394.1	18048.5	23275.4	27707.1	26894.4	22670.2	14748.1	5688.8	1876.8	1257.0
80°	7662.0	8103.4	10173.1	13333.2	18527.9	18261.9	14309.6	6975.0	2370.8	1102.1	833.1
82.5°	3686.3	3999.1	4955.0	6501.4	10237.4	9994.8	7086.1	3812.0	1505.5	643.1	491.1
85°	2373.7	2607.6	3154.2	3101.6	4209.6	4019.5	3183.5	2885.3	891.6	336.2	342.0
87.5°	1566.9	1716.0	2058.0	1645.8	1531.8	1385.6	1406.1	1625.4	175.4	128.6	46.8
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°	9094.4	9094.4	9094.4	9094.4	9094.4	9094.4	9094.4	9094.4	9094.4	9094.4	9094.4
2.5°	8995.0	8957.0	8831.3	8708.5	8591.6	8480.5	8407.4	8311.0	8246.6	8264.2	8290.5
5°	8769.9	8685.1	8463.0	8246.6	8042.0	7799.4	7603.5	7445.7	7325.8	7282.0	7273.2
7.5°	8533.1	8389.9	8071.3	7700.0	7352.1	7051.0	6703.1	6530.7	6329.0	6258.8	6235.4
10°	8389.9	8197.0	7749.7	7232.3	6709.0	6209.1	5832.0	5525.1	5247.3	5194.7	5168.4
12.5°	8349.0	8094.6	7492.4	6825.9	6130.2	5516.3	4957.9	4554.5	4285.6	4224.2	4133.6
15°	8325.6	8009.9	7252.7	6416.7	5533.8	4785.5	4197.9	3727.2	3481.7	3318.0	3320.9
17.5°	8305.1	7913.4	6983.8	5969.4	5019.3	4156.9	3508.0	3084.1	2859.0	2771.3	2762.5
20°	8275.9	7799.4	6673.9	5498.7	4431.7	3584.0	2996.4	2680.7	2528.7	2455.6	2452.7
22.5°	8264.2	7688.3	6369.9	5019.3	3911.4	3142.6	2657.3	2435.1	2338.6	2288.9	2288.9
25°	8293.4	7609.4	6051.2	4563.3	3449.5	2765.4	2423.4	2271.4	2215.9	2189.6	2180.8
27.5°	8384.0	7574.3	5735.5	4107.2	3025.6	2508.2	2265.6	2160.3	2119.4	2098.9	2101.9
30°	8556.5	7571.4	5425.7	3657.1	2709.9	2312.3	2139.9	2066.8	2034.6	2022.9	2020.0
32.5°	8834.2	7635.7	5121.6	3285.8	2443.9	2148.6	2022.9	1970.3	1955.7	1946.9	1944.0
35°	9304.9	7816.9	4820.5	2946.7	2239.3	2002.5	1911.8	1885.5	1865.1	1873.8	1876.8
37.5°	9939.2	8129.7	4534.0	2680.7	2084.3	1894.3	1818.3	1794.9	1783.2	1792.0	1800.8
40°	10789.9	8579.9	4294.3	2467.3	1973.2	1803.7	1736.4	1716.0	1704.3	1718.9	1721.8
42.5°	11728.3	9100.3	4095.6	2300.6	1882.6	1727.7	1663.4	1640.0	1631.2	1640.0	1642.9
45°	12693.0	9705.4	3993.2	2180.8	1806.6	1672.1	1604.9	1578.6	1558.1	1552.3	1561.0
47.5°	13643.1	10231.6	3990.3	2107.7	1745.2	1622.4	1549.4	1520.1	1493.8	1479.2	1476.3
50°	14417.8	10649.6	4060.5	2075.5	1692.6	1566.9	1493.8	1464.6	1429.5	1400.3	1406.1
52.5°	15002.4	10921.5	4092.6	2060.9	1663.4	1508.4	1435.3	1409.0	1368.1	1330.1	1330.1
55°	15379.5	10985.8	4013.7	2046.3	1640.0	1447.0	1368.1	1344.7	1303.8	1265.8	1265.8
57.5°	15508.1	10787.0	3730.1	2011.2	1616.6	1394.4	1300.9	1280.4	1248.3	1210.2	1204.4
60°	15210.0	10114.6	3233.2	1906.0	1569.8	1338.9	1227.8	1219.0	1207.3	1175.2	1172.2
62.5°	14061.1	8688.1	2692.4	1768.6	1490.9	1280.4	1160.6	1175.2	1183.9	1166.4	1163.5
65°	12149.3	7053.9	2300.6	1578.6	1385.6	1198.6	1087.5	1125.5	1148.9	1148.9	1143.0
67.5°	9854.5	5416.9	1938.2	1414.9	1254.1	1087.5	1005.6	1034.9	1052.4	1046.5	1061.2
70°	7004.2	3668.8	1578.6	1227.8	1087.5	961.8	900.4	900.4	888.7	882.8	882.8
72.5°	3396.9	2096.0	1280.4	1026.1	926.7	821.4	771.8	751.3	727.9	725.0	710.4
73°	2838.5	1879.7	1221.9	988.1	888.7	801.0	745.4	713.3	698.7	687.0	684.1
75°	1727.7	1426.6	1020.2	833.1	757.1	689.9	640.2	611.0	596.4	587.6	584.7
77.5°	1137.2	1064.1	792.2	637.3	578.8	537.9	517.4	488.2	479.4	467.7	467.7
80°	847.8	812.7	567.1	450.2	415.1	380.0	374.2	368.3	345.0	330.3	324.5
82.5°	546.7	578.8	385.9	301.1	263.1	233.9	236.8	245.6	222.2	201.7	195.9
85°	388.8	418.0	233.9	137.4	111.1	96.5	108.2	96.5	99.4	78.9	64.3
87.5°	64.3	111.1	40.9	17.5	8.8	5.8	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)