

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: P459191

Luminaire Tested: **GALN-SA6D-735-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459191  
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-SA6D-735-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 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: 41829 lumens  
Efficiency: N/A  
Efficacy: 113.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

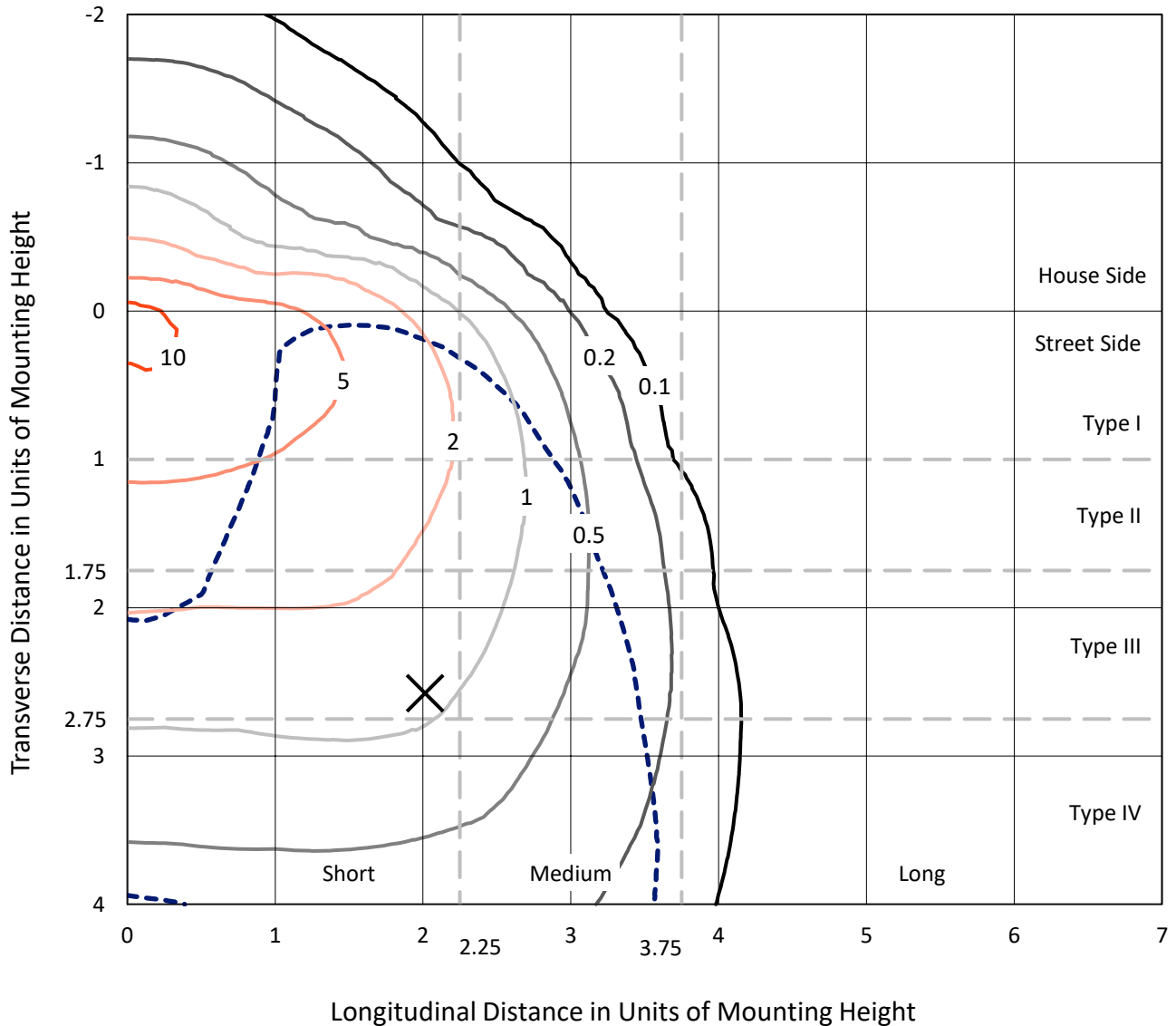
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

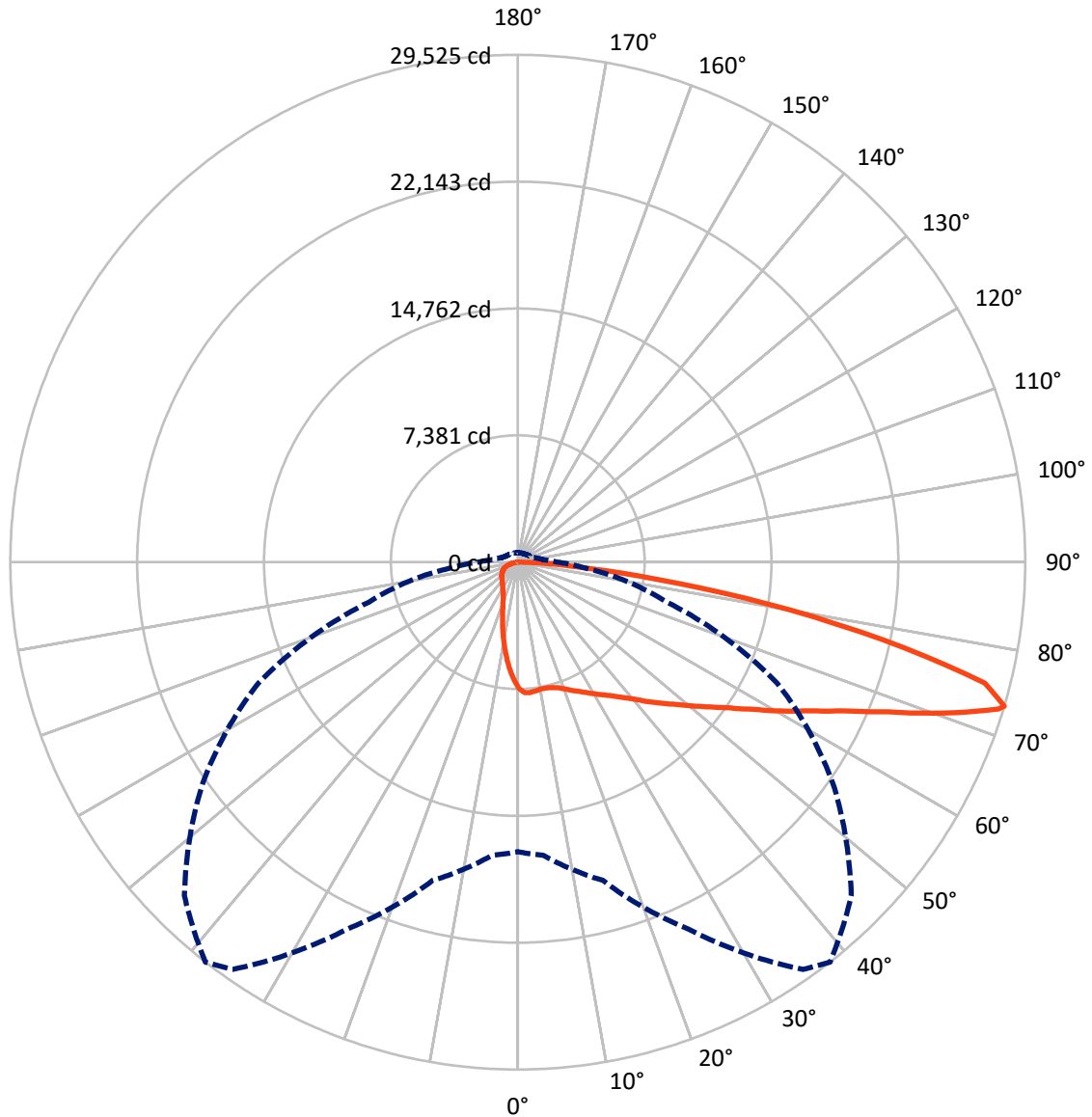
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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	5623.1	0.0	5623.1
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	36205.9	0.0	36205.9
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	41829.0	0.0	41829.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	641.4	1.5
10°-20°	1644.9	3.9
20°-30°	2561.4	6.1
30°-40°	3757.0	9.0
40°-50°	5573.1	13.3
50°-60°	7896.0	18.9
60°-70°	10016.3	23.9
70°-80°	8337.8	19.9
80°-90°	1400.9	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°	41829.0	100.0
0°-180°	41829.0	100.0

**Coefficient of Utilization**



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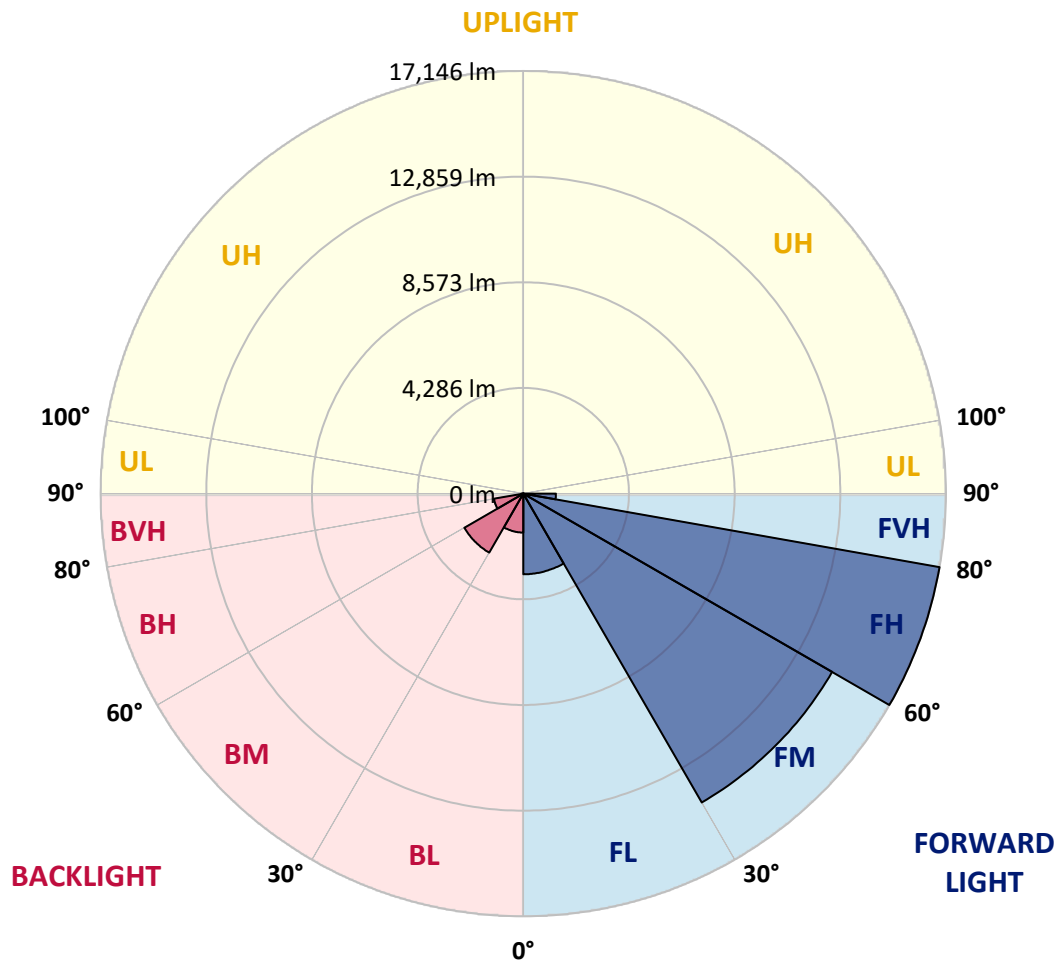
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3269.9	7.8			
FM	(30°-60°)	14465.6	34.6			
FH	(60°-80°)	17145.5	41.0			G5
FVH	(80°-90°)	1324.9	3.2			G5
BL	(0°-30°)	1577.9	3.8	B3/2500		
BM	(30°-60°)	2760.6	6.6	B3/5000		
BH	(60°-80°)	1208.6	2.9	B3/2500		G3/2500
BVH	(80°-90°)	76.0	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°	7348.6	7348.6	7348.6	7348.6	7348.6	7348.6	7348.6	7348.6	7348.6	7348.6	7348.6
2.5°	7643.9	7681.7	7662.8	7636.8	7620.3	7603.8	7580.1	7511.6	7457.3	7398.3	7306.1
5°	7700.6	7724.2	7707.7	7674.6	7636.8	7620.3	7575.4	7485.7	7398.3	7299.0	7162.0
7.5°	7667.5	7677.0	7658.1	7617.9	7584.9	7554.2	7502.2	7403.0	7296.7	7176.2	6996.7
10°	7549.4	7584.9	7584.9	7551.8	7518.7	7502.2	7450.2	7355.7	7258.9	7121.9	6909.3
12.5°	7452.6	7490.4	7521.1	7511.6	7509.3	7509.3	7469.1	7398.3	7284.9	7155.0	6902.2
15°	7386.4	7431.3	7497.5	7535.3	7558.9	7566.0	7549.4	7488.0	7372.3	7221.1	6930.5
17.5°	7372.3	7426.6	7547.1	7629.7	7691.2	7688.8	7684.1	7599.0	7471.5	7315.6	6966.0
20°	7436.0	7506.9	7674.6	7804.5	7894.3	7877.8	7851.8	7740.8	7591.9	7417.1	6999.0
22.5°	7627.4	7700.6	7884.9	8026.6	8114.0	8114.0	8036.0	7889.6	7731.3	7535.3	7043.9
25°	7901.4	7981.7	8177.8	8321.9	8362.0	8331.3	8253.3	8076.2	7894.3	7705.3	7138.4
27.5°	8236.8	8333.7	8515.5	8636.0	8624.2	8600.6	8520.3	8293.5	8111.6	7939.2	7299.0
30°	8654.9	8725.8	8914.8	8943.1	8900.6	8895.9	8782.5	8555.7	8385.6	8253.3	7528.2
32.5°	9049.4	9113.2	9264.3	9276.2	9200.6	9210.0	9103.7	8895.9	8799.0	8751.8	7913.2
35°	9467.5	9500.6	9630.5	9616.3	9566.7	9559.6	9517.1	9318.7	9349.4	9434.4	8458.9
37.5°	9817.1	9883.2	9956.5	9968.3	9965.9	9989.5	10017.9	9923.4	10100.6	10367.5	9174.6
40°	10138.3	10195.0	10303.7	10341.5	10433.6	10480.9	10577.7	10580.1	10988.7	11428.1	10055.7
42.5°	10355.7	10452.5	10655.7	10724.2	10948.6	11090.3	11234.4	11387.9	11980.8	12545.4	11095.0
45°	10544.6	10672.2	11010.0	11222.6	11527.3	11699.7	12004.4	12325.7	13178.4	13917.8	12150.9
47.5°	10830.5	10943.8	11331.2	11706.8	12167.4	12365.9	12821.7	13301.3	14416.2	15226.4	13161.9
50°	11227.3	11295.8	11690.3	12302.1	12890.2	13145.4	13747.7	14439.8	15739.0	16518.5	14050.1
52.5°	11735.2	11763.5	12077.7	12892.6	13667.4	13983.9	14782.3	15590.2	16896.5	17640.5	14754.0
55°	12335.1	12287.9	12533.6	13518.6	14555.6	14968.9	15826.4	16754.7	18198.0	18547.6	15266.6
57.5°	12928.0	12854.8	13050.9	14279.2	15651.6	16150.0	17149.2	17954.7	19360.2	19395.6	15625.6
60°	13556.4	13502.0	13735.9	15172.1	16995.7	17586.2	18509.8	19199.5	20484.6	19986.1	15682.3
62.5°	14201.2	14113.8	14446.9	16176.0	18509.8	19046.0	19941.3	20522.4	21587.7	20205.8	15136.7
65°	14827.2	14787.1	15302.0	17368.9	20234.2	20843.6	21712.9	22107.4	22471.1	19875.1	13783.1
67.5°	15493.3	15573.7	16395.7	18961.0	22482.9	23248.3	24186.0	23815.2	22723.9	18309.0	11607.6
70°	16509.1	16561.0	17831.9	21046.7	25381.3	26304.9	26758.4	24422.3	21505.0	15335.1	8725.8
72.5°	16946.1	17175.2	19114.5	23236.5	28674.1	29238.7	27623.0	23068.7	17914.5	10417.1	4584.9
73°	16849.2	17123.2	19173.6	23569.5	28931.6	29524.5	27438.7	22371.9	16653.2	8971.4	3930.6
75°	15642.2	15979.9	18405.9	23290.8	28430.8	28076.5	24476.6	19067.3	11253.3	4079.4	1790.5
77.5°	12342.2	12439.1	14583.9	18807.4	22388.5	21731.8	18318.5	11917.0	4596.7	1516.5	1015.7
80°	6191.2	6547.9	8220.3	10773.8	14971.3	14756.3	11562.7	5636.1	1915.7	890.5	673.2
82.5°	2978.7	3231.4	4003.8	5253.4	8272.2	8076.2	5725.8	3080.2	1216.5	519.7	396.8
85°	1918.1	2107.0	2548.8	2506.2	3401.5	3248.0	2572.4	2331.4	720.5	271.6	276.4
87.5°	1266.1	1386.6	1663.0	1329.9	1237.8	1119.7	1136.2	1313.4	141.7	103.9	37.8
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°	7348.6	7348.6	7348.6	7348.6	7348.6	7348.6	7348.6	7348.6	7348.6	7348.6	7348.6
2.5°	7268.3	7237.6	7136.1	7036.8	6942.4	6852.6	6793.5	6715.6	6663.6	6677.8	6699.1
5°	7086.4	7017.9	6838.4	6663.6	6498.3	6302.2	6144.0	6016.4	5919.5	5884.1	5877.0
7.5°	6895.1	6779.4	6521.9	6221.9	5940.8	5697.5	5416.4	5277.0	5114.1	5057.4	5038.5
10°	6779.4	6623.5	6262.1	5844.0	5421.1	5017.2	4712.5	4464.5	4240.1	4197.5	4176.3
12.5°	6746.3	6540.8	6054.2	5515.6	4953.4	4457.4	4006.2	3680.2	3462.9	3413.3	3340.1
15°	6727.4	6472.3	5860.5	5184.9	4471.5	3866.8	3392.0	3011.7	2813.3	2681.0	2683.4
17.5°	6710.9	6394.3	5643.2	4823.5	4055.8	3359.0	2834.6	2492.1	2310.2	2239.3	2232.2
20°	6687.2	6302.2	5392.8	4443.2	3581.0	2896.0	2421.2	2166.1	2043.3	1984.2	1981.8
22.5°	6677.8	6212.5	5147.1	4055.8	3160.6	2539.3	2147.2	1967.7	1889.7	1849.6	1849.6
25°	6701.4	6148.7	4889.6	3687.3	2787.3	2234.6	1958.2	1835.4	1790.5	1769.2	1762.2
27.5°	6774.6	6120.3	4634.5	3318.8	2444.8	2026.7	1830.7	1745.6	1712.6	1696.0	1698.4
30°	6914.0	6118.0	4384.1	2955.0	2189.7	1868.5	1729.1	1670.0	1644.1	1634.6	1632.2
32.5°	7138.4	6169.9	4138.5	2655.1	1974.8	1736.2	1634.6	1592.1	1580.3	1573.2	1570.8
35°	7518.7	6316.4	3895.2	2381.0	1809.4	1618.1	1544.8	1523.6	1507.1	1514.1	1516.5
37.5°	8031.3	6569.1	3663.7	2166.1	1684.2	1530.7	1469.3	1450.4	1440.9	1448.0	1455.1
40°	8718.7	6932.9	3470.0	1993.7	1594.5	1457.4	1403.1	1386.6	1377.1	1388.9	1391.3
42.5°	9476.9	7353.4	3309.4	1859.0	1521.2	1396.0	1344.1	1325.2	1318.1	1325.2	1327.5
45°	10256.5	7842.3	3226.7	1762.2	1459.8	1351.1	1296.8	1275.6	1259.0	1254.3	1261.4
47.5°	11024.2	8267.5	3224.3	1703.1	1410.2	1311.0	1251.9	1228.3	1207.1	1195.2	1192.9
50°	11650.1	8605.3	3281.0	1677.1	1367.7	1266.1	1207.1	1183.4	1155.1	1131.5	1136.2
52.5°	12122.6	8825.0	3307.0	1665.3	1344.1	1218.9	1159.8	1138.6	1105.5	1074.8	1074.8
55°	12427.3	8877.0	3243.2	1653.5	1325.2	1169.3	1105.5	1086.6	1053.5	1022.8	1022.8
57.5°	12531.2	8716.3	3014.1	1625.2	1306.3	1126.7	1051.2	1034.6	1008.6	977.9	973.2
60°	12290.3	8173.0	2612.5	1540.1	1268.5	1081.9	992.1	985.0	975.6	949.6	947.2
62.5°	11361.9	7020.3	2175.5	1429.1	1204.7	1034.6	937.8	949.6	956.7	942.5	940.1
65°	9817.1	5699.9	1859.0	1275.6	1119.7	968.5	878.7	909.4	928.3	928.3	923.6
67.5°	7962.8	4377.1	1566.1	1143.3	1013.4	878.7	812.6	836.2	850.4	845.6	857.5
70°	5659.7	2964.5	1275.6	992.1	878.7	777.1	727.5	727.5	718.1	713.4	713.4
72.5°	2744.8	1693.7	1034.6	829.1	748.8	663.8	623.6	607.1	588.2	585.8	574.0
73°	2293.6	1518.9	987.4	798.4	718.1	647.2	602.3	576.4	564.6	555.1	552.7
75°	1396.0	1152.7	824.4	673.2	611.8	557.5	517.3	493.7	481.9	474.8	472.4
77.5°	918.9	859.8	640.1	514.9	467.7	434.6	418.1	394.5	387.4	377.9	377.9
80°	685.0	656.7	458.3	363.8	335.4	307.1	302.4	297.6	278.7	266.9	262.2
82.5°	441.7	467.7	311.8	243.3	212.6	189.0	191.3	198.4	179.5	163.0	158.3
85°	314.2	337.8	189.0	111.0	89.8	78.0	87.4	78.0	80.3	63.8	52.0
87.5°	52.0	89.8	33.1	14.2	7.1	4.7	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)