

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: P383560

Luminaire Tested: **GLEON-SA8C-735-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383560
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8C-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42858.6 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

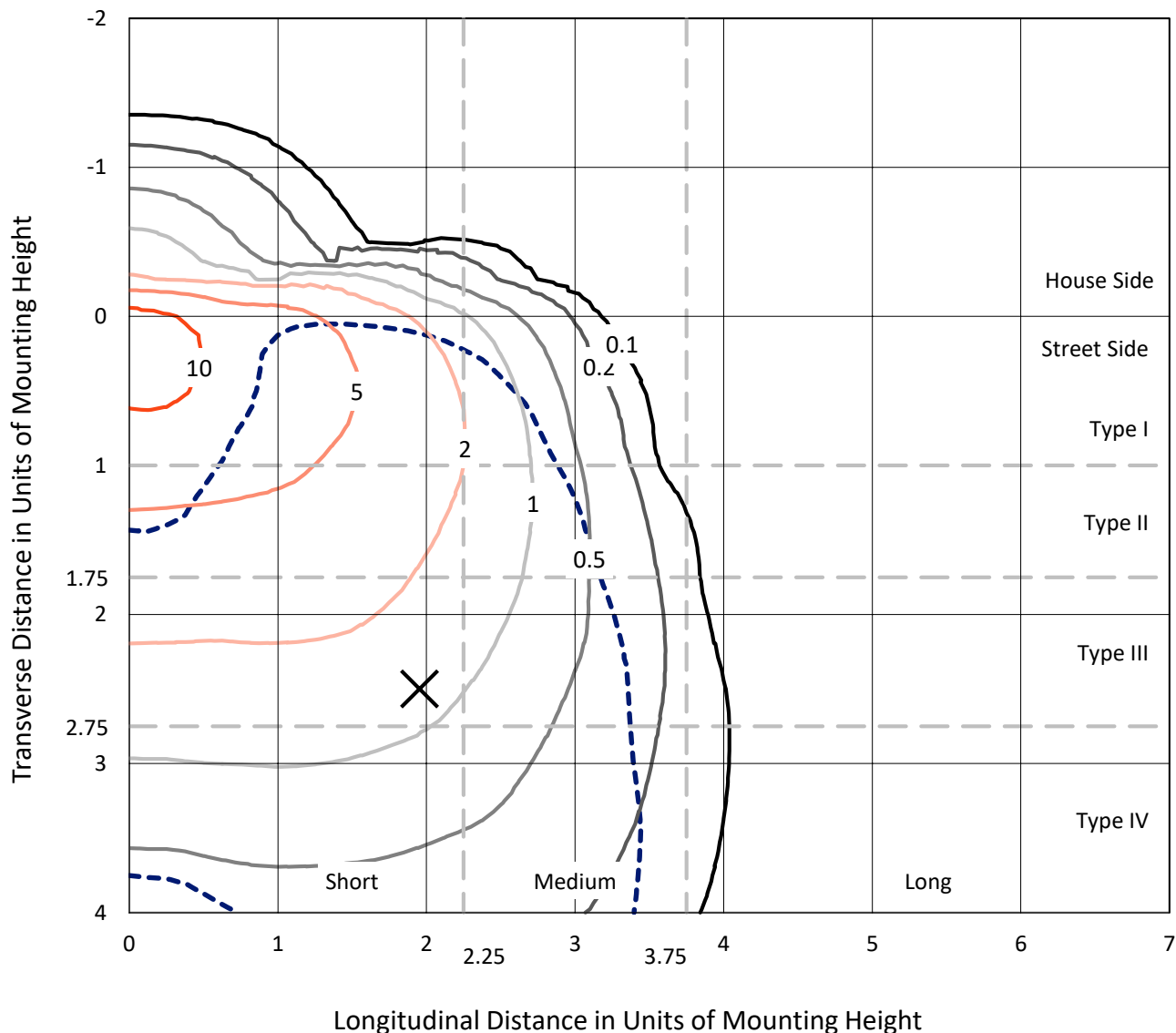
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

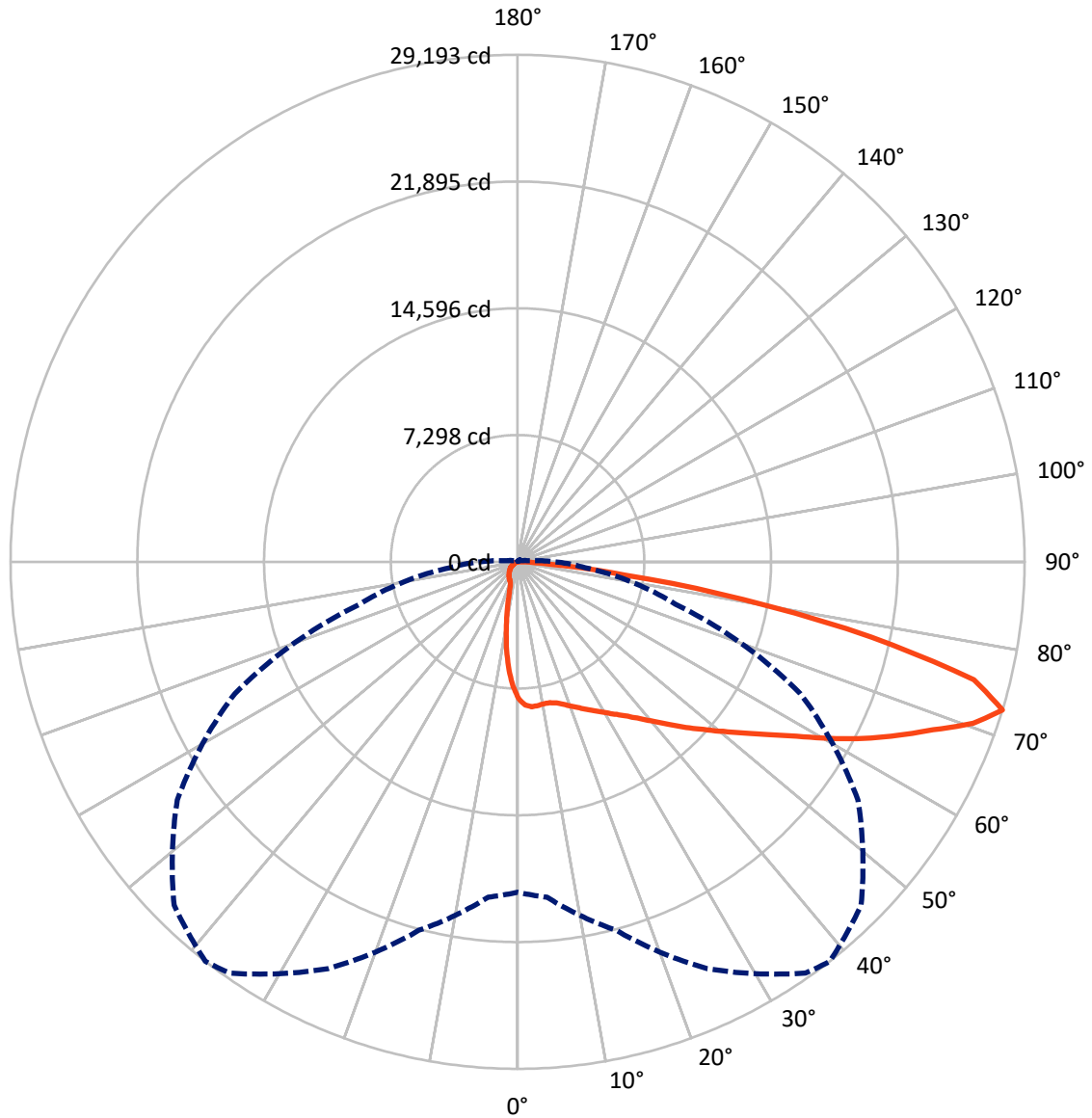
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3606.7	0.0	3606.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	39251.9	0.0	39251.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	42858.6	0.0	42858.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	671.7	1.6
10°-20°	1642.4	3.8
20°-30°	2612.1	6.1
30°-40°	3927.1	9.2
40°-50°	5991.0	14.0
50°-60°	8467.3	19.8
60°-70°	10620.9	24.8
70°-80°	7941.4	18.5
80°-90°	984.7	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°	42858.6	100.0
0°-180°	42858.6	100.0

Coefficient of Utilization

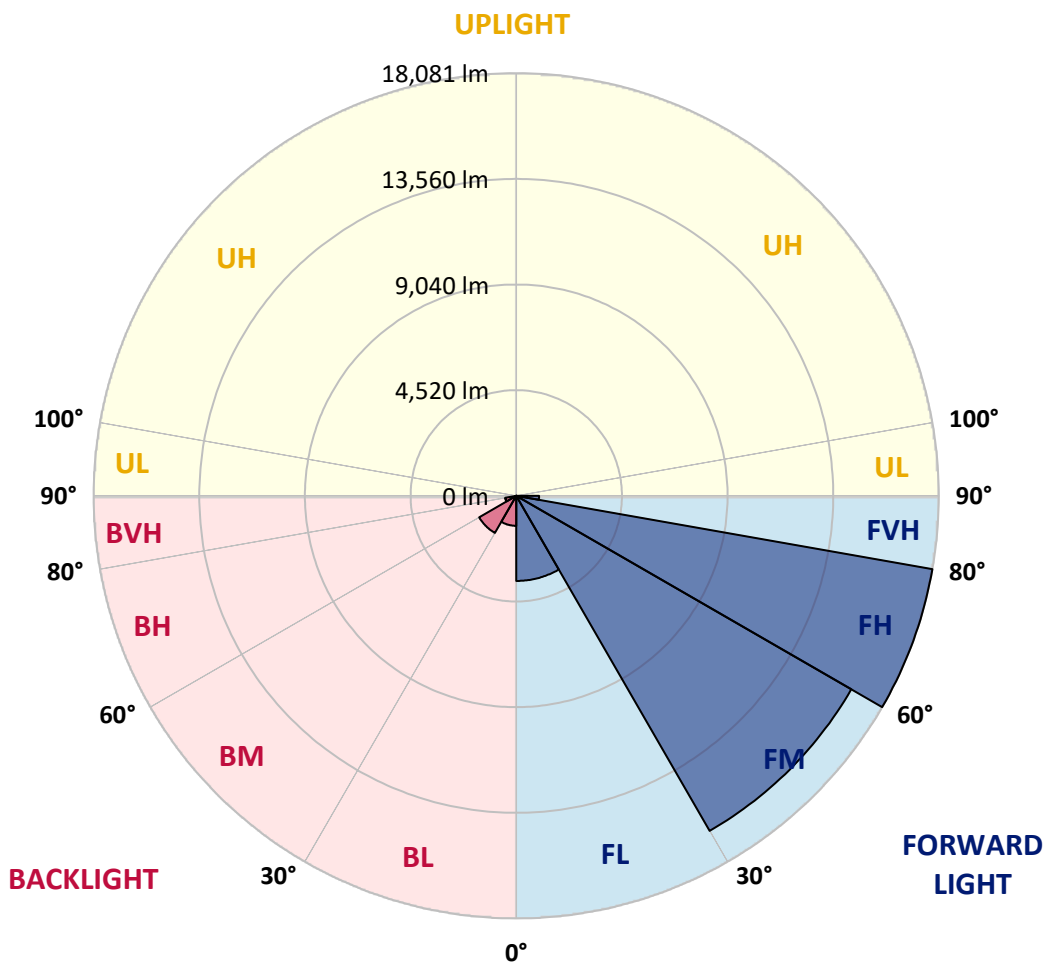


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3642.0	8.5			
FM (30°-60°)	16553.9	38.6			
FH (60°-80°)	18080.5	42.2			G5
FVH (80°-90°)	975.5	2.3			G5
BL (0°-30°)	1284.2	3.0	B3/2500		
BM (30°-60°)	1831.5	4.3	B2/2500		
BH (60°-80°)	481.8	1.1	B1/500		G1/500
BVH (80°-90°)	9.2	0.0			G0/10
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°	7881.5	7881.5	7881.5	7881.5	7881.5	7881.5	7881.5	7881.5	7881.5	7881.5	7881.5
2.5°	8365.7	8367.4	8347.9	8315.8	8274.9	8253.6	8217.9	8161.0	8100.5	7991.9	7874.5
5°	8536.6	8536.6	8511.6	8469.0	8403.1	8383.5	8315.8	8225.1	8100.5	7924.3	7726.7
7.5°	8518.8	8522.4	8488.5	8444.0	8378.2	8360.4	8278.5	8177.0	8022.2	7808.6	7555.9
10°	8426.2	8435.2	8408.4	8387.1	8326.5	8307.0	8230.4	8129.0	7974.1	7746.3	7456.2
12.5°	8331.9	8340.8	8349.6	8369.3	8331.9	8324.8	8264.2	8178.8	8031.1	7794.4	7466.8
15°	8271.4	8289.2	8353.3	8429.8	8438.7	8431.5	8392.4	8312.3	8162.8	7917.1	7543.4
17.5°	8271.4	8299.8	8433.3	8579.3	8630.9	8636.3	8602.5	8490.3	8312.3	8048.9	7614.6
20°	8340.8	8379.9	8588.2	8794.6	8880.1	8880.1	8814.2	8657.6	8449.3	8168.1	7662.6
22.5°	8518.8	8570.4	8832.1	9070.6	9161.3	9141.7	9052.8	8824.9	8591.8	8303.4	7723.2
25°	8869.5	8908.6	9181.0	9421.2	9476.4	9431.9	9319.8	9027.8	8773.3	8486.8	7833.5
27.5°	9321.5	9326.8	9608.1	9811.1	9777.2	9747.0	9606.3	9282.4	9035.0	8748.3	8024.0
30°	9818.1	9818.1	10065.6	10220.4	10117.2	10092.2	9951.6	9590.3	9369.6	9104.4	8294.5
32.5°	10298.7	10320.1	10521.2	10619.1	10503.4	10478.5	10341.5	9980.1	9814.6	9647.3	8716.4
35°	10763.3	10779.3	10969.7	11023.2	10912.8	10919.9	10822.0	10515.9	10453.5	10432.2	9351.8
37.5°	11213.6	11217.1	11411.2	11445.0	11389.8	11450.3	11459.2	11188.7	11304.4	11477.0	10247.1
40°	11624.8	11628.3	11820.6	11907.8	12002.2	12080.4	12149.9	12005.7	12388.4	12788.8	11313.3
42.5°	11954.1	11991.4	12235.3	12400.9	12650.0	12799.6	12988.2	12981.1	13678.8	14280.4	12602.0
45°	12244.2	12308.3	12648.3	12938.4	13365.6	13604.0	13899.5	14130.9	15131.2	15941.1	13906.6
47.5°	12626.8	12687.4	13075.4	13550.7	14120.2	14433.5	14923.0	15423.2	16727.9	17571.5	15181.1
50°	13166.2	13139.5	13522.2	14203.9	14935.4	15346.6	16044.3	16793.8	18312.0	18991.9	15930.4
52.5°	13741.1	13730.5	14013.5	14914.1	15896.6	16377.2	17299.2	18210.5	19826.7	19970.9	16274.0
55°	14453.1	14376.6	14615.1	15724.0	17037.5	17553.7	18639.5	19613.2	21033.5	20522.6	16446.7
57.5°	15198.9	15072.5	15300.3	16626.4	18324.5	18935.0	20123.9	20980.1	21836.3	20900.0	16444.8
60°	15969.6	15820.1	16090.6	17754.8	19922.8	20629.5	21733.0	21903.9	22585.7	21090.5	16323.8
62.5°	16614.0	16524.9	16927.2	18961.7	21708.1	22402.3	22948.8	22744.0	23217.5	21238.2	16040.8
65°	17295.7	17301.0	17950.6	20369.6	23605.5	24073.6	24119.9	23833.4	23746.2	21208.0	15083.2
67.5°	18217.6	18303.1	19387.1	22281.2	25451.4	25812.6	25809.1	25013.5	24132.4	20004.7	12959.7
70°	19193.0	19394.2	21042.4	24468.8	27466.2	27832.9	27644.2	25764.6	22722.7	16176.0	9172.0
72.5°	19029.3	19378.1	21962.6	25848.2	28913.3	29192.7	27966.4	23918.8	17959.6	9401.6	3905.1
75°	14680.9	15085.0	20138.2	24481.3	27395.0	27144.1	24029.2	18612.8	9814.6	2623.6	879.3
77.5°	7755.2	7970.6	13303.2	18650.1	21361.0	20835.9	16927.2	10325.5	2992.0	649.7	395.2
80°	4061.8	4111.7	5797.3	10581.7	13184.0	13187.5	10031.7	4535.2	1233.5	332.8	265.2
82.5°	2175.1	2217.8	3063.3	4889.5	6907.9	6261.9	3841.1	2495.4	717.3	188.6	254.5
85°	523.3	532.2	1737.2	2233.9	2716.2	1940.1	1141.0	2095.0	194.0	110.4	206.4
87.5°	201.1	204.7	644.4	966.5	692.4	448.5	534.0	781.4	25.0	42.8	32.0
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°	7881.5	7881.5	7881.5	7881.5	7881.5	7881.5	7881.5	7881.5	7881.5	7881.5	7881.5
2.5°	7803.2	7757.0	7643.1	7498.9	7370.7	7278.2	7139.3	7048.6	6988.0	6986.2	6963.1
5°	7605.7	7511.3	7265.7	6973.8	6708.5	6470.1	6188.8	5966.4	5800.8	5774.1	5717.2
7.5°	7393.9	7239.0	6861.7	6406.0	5961.0	5508.9	4983.8	4658.1	4378.6	4245.2	4230.9
10°	7263.9	7046.8	6511.1	5852.4	5154.7	4419.5	3732.5	3257.2	2913.8	2815.9	2742.8
12.5°	7237.2	6950.6	6240.4	5332.7	4335.9	3364.1	2604.0	2098.6	1824.4	1737.2	1714.0
15°	7263.9	6906.1	6012.7	4818.3	3506.4	2386.9	1747.9	1454.2	1350.9	1326.1	1324.3
17.5°	7280.0	6852.7	5754.5	4246.9	2702.0	1705.2	1338.5	1253.1	1237.1	1235.2	1238.9
20°	7278.2	6770.9	5446.6	3609.7	2009.5	1340.3	1210.4	1192.6	1189.0	1190.8	1189.0
22.5°	7265.7	6674.7	5108.4	2952.9	1518.3	1197.9	1155.2	1144.5	1142.7	1142.7	1142.7
25°	7288.8	6598.2	4736.5	2324.6	1251.3	1132.0	1105.4	1096.4	1094.7	1094.7	1091.1
27.5°	7372.5	6555.5	4328.8	1788.9	1130.2	1073.3	1051.9	1050.1	1044.8	1043.1	1046.6
30°	7507.8	6555.5	3882.0	1391.9	1057.3	1012.8	996.8	993.2	991.4	989.7	991.4
32.5°	7746.3	6605.3	3394.4	1157.0	987.9	945.1	934.4	939.8	934.4	934.4	934.4
35°	8177.0	6754.8	2883.5	1009.2	914.9	879.3	868.6	875.7	872.2	872.2	870.3
37.5°	8805.4	7032.5	2369.1	920.2	850.8	813.4	799.2	809.9	806.3	806.3	804.6
40°	9570.7	7436.5	1879.6	852.6	788.6	749.3	736.9	742.3	733.3	733.3	736.9
42.5°	10515.9	7949.2	1452.5	786.7	726.2	688.9	681.7	676.4	660.4	651.4	653.2
45°	11566.0	8483.1	1132.0	722.7	667.5	637.2	626.6	612.3	585.6	567.8	569.5
47.5°	12504.1	8894.3	920.2	660.4	614.1	591.0	575.0	548.2	509.1	487.7	489.5
50°	12997.1	8956.6	783.2	598.1	564.2	541.1	517.9	477.0	430.7	407.6	405.8
52.5°	13123.5	8664.7	681.7	541.1	514.4	487.7	457.5	402.2	350.6	325.8	322.1
55°	13169.8	8219.8	591.0	487.7	461.0	430.7	391.6	329.3	281.2	256.3	254.5
57.5°	13016.7	7555.9	519.7	439.7	407.6	370.2	322.1	263.4	217.1	197.6	197.6
60°	12676.7	6656.9	464.6	388.0	352.4	309.7	259.9	204.7	162.0	146.0	146.0
62.5°	11998.5	5492.9	413.0	334.6	300.8	256.3	210.1	154.8	113.9	105.0	106.8
65°	10718.8	4166.8	361.3	286.5	256.3	211.8	163.8	110.4	76.6	76.6	80.1
67.5°	8741.3	2894.1	308.0	243.9	220.7	172.6	124.6	76.6	53.4	60.6	67.6
70°	5786.6	1623.3	263.4	201.1	188.6	137.0	92.6	51.6	42.8	56.9	69.4
72.5°	2184.0	631.9	220.7	162.0	163.8	105.0	65.9	39.1	39.1	62.3	81.9
75°	608.8	309.7	158.5	119.2	128.2	76.6	48.1	33.8	37.4	71.2	96.1
77.5°	357.8	227.9	103.2	69.4	87.2	53.4	32.0	26.7	32.0	60.6	92.6
80°	288.3	121.0	60.6	35.6	48.1	30.3	21.3	16.0	8.9	23.1	48.1
82.5°	288.3	72.9	28.5	25.0	25.0	16.0	10.7	7.1	1.8	0.0	12.5
85°	194.0	30.3	17.8	16.0	12.5	5.3	3.5	1.8	0.0	0.0	0.0
87.5°	32.0	12.5	7.1	3.5	1.8	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)