

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: P646987

Luminaire Tested: **GALN-SA6C-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646987
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-835-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24351.3 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

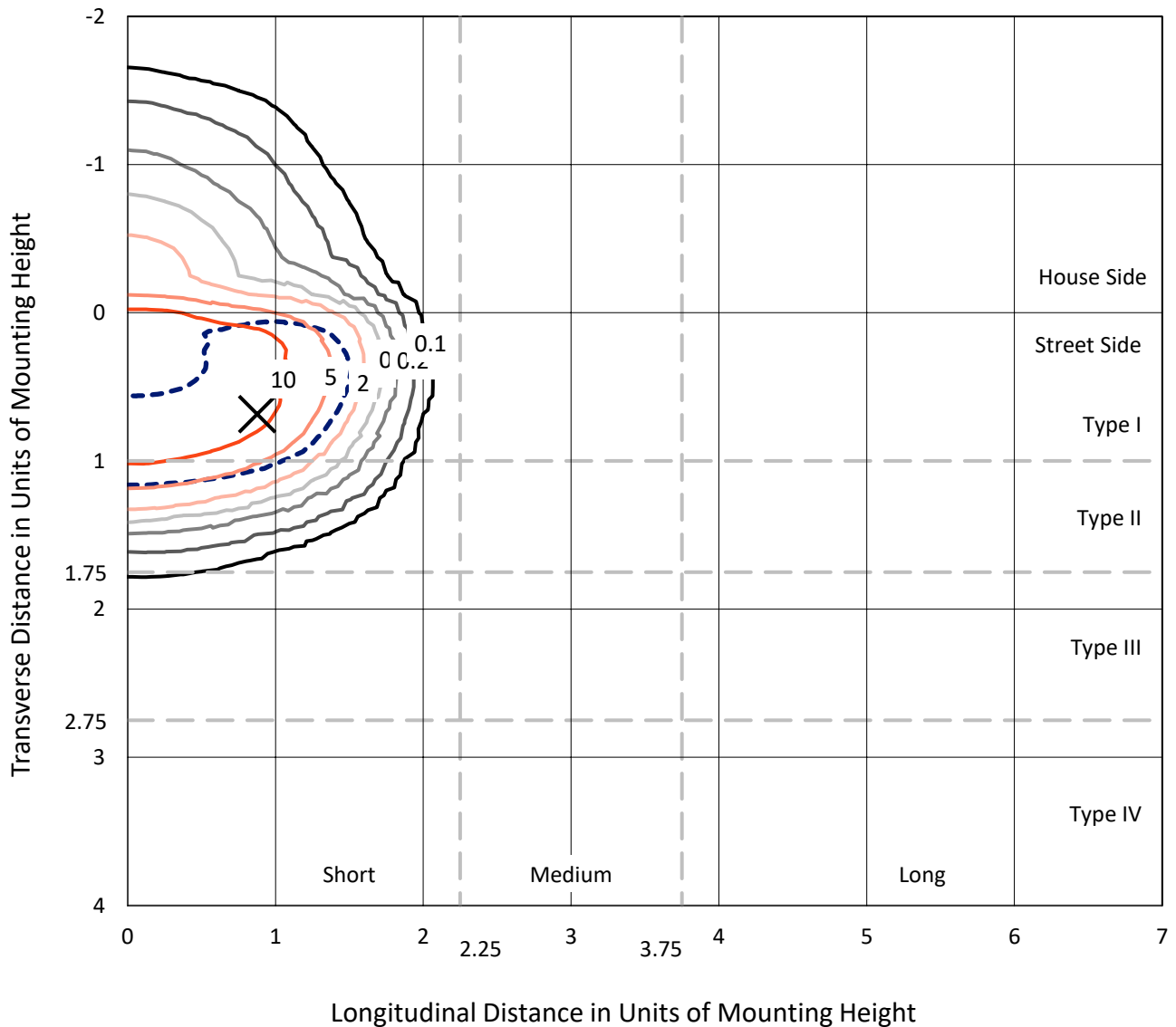
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

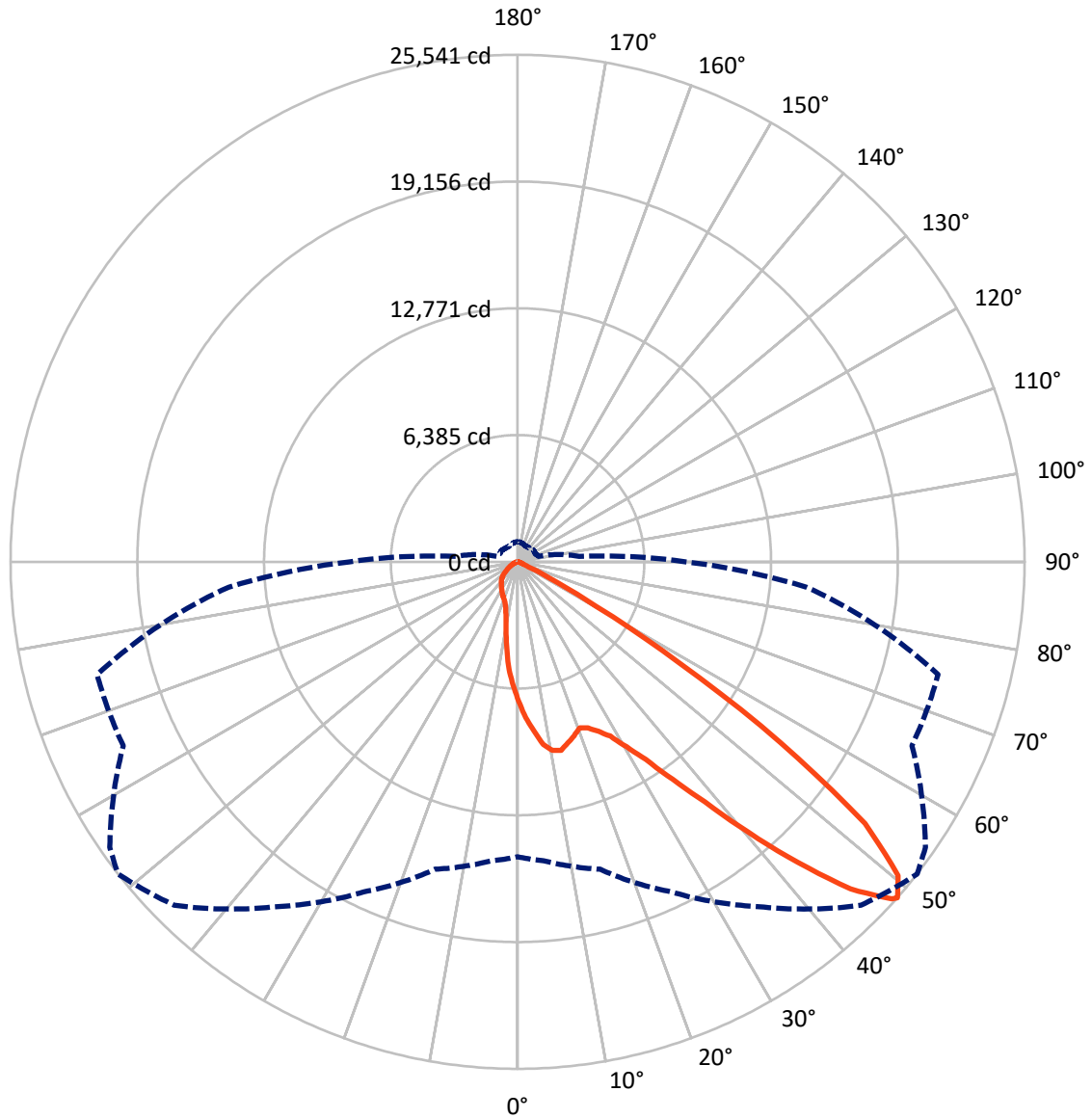
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2965.0	0.0	2965.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	21386.3	0.0	21386.3
	% Fixture	87.8	0.0	87.8
Total	Lumens	24351.3	0.0	24351.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	643.7	2.6
10°-20°	1682.1	6.9
20°-30°	2872.0	11.8
30°-40°	5288.8	21.7
40°-50°	8213.5	33.7
50°-60°	4943.2	20.3
60°-70°	571.7	2.3
70°-80°	110.7	0.5
80°-90°	25.6	0.1
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°	24351.3	100.0
0°-180°	24351.3	100.0

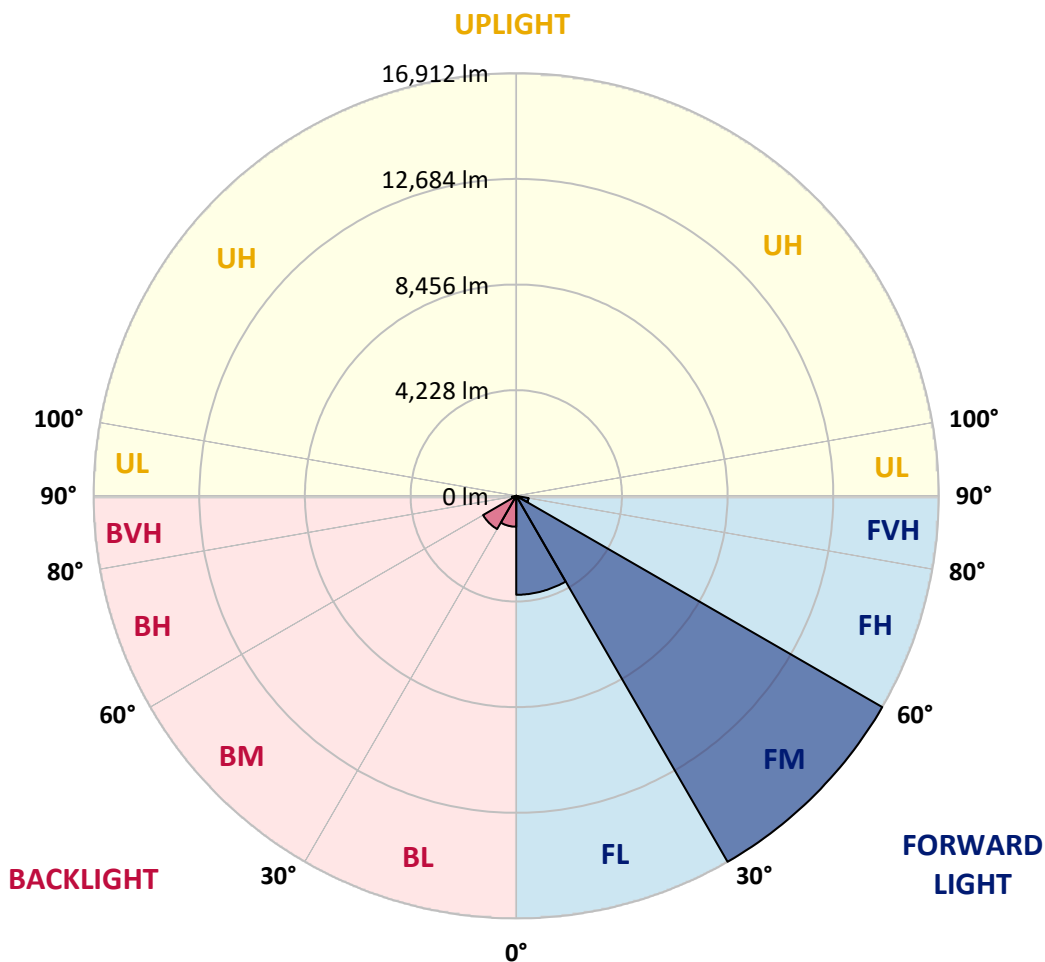


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3959.2	16.3			
FM (30°-60°)	16911.5	69.4			
FH (60°-80°)	503.5	2.1			G0/660
FVH (80°-90°)	12.2	0.0			G1/100
BL (0°-30°)	1238.6	5.1	B3/2500		
BM (30°-60°)	1534.0	6.3	B2/2500		
BH (60°-80°)	179.0	0.7	B1/500		G1/500
BVH (80°-90°)	13.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	7032.3	7032.3	7032.3	7032.3	7032.3	7032.3	7032.3	7032.3	7032.3	7032.3	7032.3
2.5°	8523.2	8327.9	8345.7	8217.9	8143.4	8022.7	7859.4	7827.4	7649.9	7408.5	7163.6
5°	9290.0	9243.8	9304.2	9119.6	9126.6	8927.8	8544.5	8551.6	8143.4	7749.4	7369.5
7.5°	9339.6	9233.1	9293.5	9456.8	9552.7	9517.1	9300.6	9112.5	8725.5	8146.9	7593.1
10°	8363.5	8565.8	8629.7	8899.5	9282.9	9687.5	9662.7	9673.3	9350.3	8594.2	7784.8
12.5°	7777.7	7642.9	7859.4	8022.7	8601.3	9385.8	9744.4	9822.4	9847.2	9027.3	7976.5
15°	7511.5	7511.5	7546.9	7593.1	8012.0	8736.2	9467.4	9694.6	10230.7	9595.3	8278.3
17.5°	7678.3	7671.2	7720.9	7625.1	7781.3	8338.6	9211.8	9471.0	10660.2	10152.5	8516.1
20°	8186.0	8210.8	8178.8	7902.0	7912.6	8331.5	8927.8	9336.1	10951.3	10635.3	8832.0
22.5°	8892.4	8906.5	8725.5	8423.8	8335.0	8541.0	9091.2	9403.5	11185.5	11214.0	8927.8
25°	9708.8	9652.0	9616.6	9190.5	8920.8	9098.2	9460.4	9641.4	11331.1	11710.9	9201.2
27.5°	10841.3	10727.6	10511.1	10131.2	9932.5	9680.5	9939.6	10237.8	11746.5	12406.7	9499.4
30°	12513.2	12413.8	11991.4	11501.5	10979.7	10731.2	10812.8	10976.2	12495.5	13212.6	9893.4
32.5°	15030.1	14820.6	14210.0	13276.5	12566.4	11881.3	11860.0	12034.0	13166.4	14327.2	10362.0
35°	17802.5	17738.6	16840.5	15878.5	14504.7	13446.9	13464.5	13556.9	14451.4	15789.7	10976.2
37.5°	19644.8	19996.3	19424.7	18391.7	17238.1	15725.9	15342.4	15374.4	16215.7	17522.1	12083.6
40°	21068.3	20770.2	20837.6	20596.2	19808.2	18778.7	17930.3	17763.5	18256.9	19439.0	13184.2
42.5°	20447.1	20461.4	20876.7	21448.2	21643.5	21568.9	20702.8	20386.8	20003.4	21008.0	14231.3
45°	18693.5	19059.2	19598.7	21110.9	22438.6	23684.6	23514.2	22988.8	21210.4	22250.4	14834.8
47.5°	15896.2	15882.1	16765.9	18732.6	21682.4	24600.5	25374.3	25005.1	22065.9	22112.0	14710.6
48°	14863.2	15118.8	16031.1	18345.6	21203.2	24465.5	25541.1	25076.1	21920.3	21927.4	14604.0
50°	10986.8	10940.6	12076.6	14916.5	18938.4	22988.8	24838.3	25200.4	21916.8	20993.8	13858.6
52.5°	5804.0	6002.8	6829.9	9378.7	13390.0	18814.2	21909.7	22474.1	21142.9	19467.3	12786.5
55°	2467.2	2229.3	2864.8	4234.9	7532.8	12570.0	16073.7	17330.4	17877.1	17227.4	11185.5
57.5°	880.3	962.0	1107.6	1593.9	3166.5	6879.6	9584.6	10560.8	12385.4	12641.0	7621.5
60°	564.5	575.1	621.2	731.2	1189.2	2651.7	4547.4	5324.8	6151.9	6350.7	3556.9
62.5°	436.6	440.2	461.5	479.2	564.5	1029.5	1707.5	2023.4	2101.5	1806.9	933.6
65°	365.7	369.2	376.3	376.3	401.1	482.8	596.4	656.7	639.0	631.9	528.9
67.5°	280.5	287.5	301.8	301.8	315.9	294.6	330.1	351.4	397.6	482.8	450.9
70°	220.1	223.6	234.3	241.4	241.4	213.0	237.9	259.2	291.1	358.5	355.0
72.5°	170.4	177.5	184.6	184.6	173.9	145.6	170.4	188.2	209.5	248.5	241.4
75°	131.3	131.3	134.9	110.0	85.2	74.5	103.0	124.3	156.2	163.3	134.9
77.5°	35.5	39.1	35.5	31.9	35.5	53.2	67.4	78.1	99.4	99.4	88.7
80°	0.0	3.5	10.6	21.3	35.5	49.7	60.4	67.4	78.1	85.2	81.7
82.5°	0.0	3.5	10.6	21.3	31.9	39.1	53.2	56.8	63.9	74.5	74.5
85°	0.0	3.5	7.1	14.2	21.3	24.8	24.8	21.3	21.3	17.8	14.2
87.5°	0.0	0.0	3.5	7.1	7.1	10.6	10.6	10.6	10.6	10.6	10.6
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°	7032.3	7032.3	7032.3	7032.3	7032.3	7032.3	7032.3	7032.3	7032.3	7032.3	7032.3
2.5°	7067.7	6957.7	6790.9	6528.2	6276.1	6112.8	5956.7	5782.7	5686.9	5679.7	5626.5
5°	7152.9	6904.5	6506.9	6056.0	5573.2	5157.9	4739.0	4465.7	4220.8	4085.9	4061.0
7.5°	7199.1	6876.1	6233.5	5477.4	4653.8	3975.8	3507.2	3162.9	3028.0	2928.7	2925.1
10°	7295.0	6826.4	5825.3	4710.7	3691.8	3006.7	2683.7	2527.5	2453.0	2424.6	2382.0
12.5°	7365.9	6734.0	5406.5	3922.6	2918.0	2492.0	2350.0	2314.5	2318.1	2332.2	2314.5
15°	7465.4	6652.4	4842.0	3219.7	2449.4	2243.5	2243.5	2250.6	2300.3	2307.4	2303.8
17.5°	7458.2	6492.6	4259.8	2651.7	2165.4	2137.0	2147.7	2215.1	2247.1	2257.7	2232.9
20°	7543.4	6343.6	3659.9	2264.8	2005.7	2048.2	2119.3	2137.0	2176.0	2183.2	2154.7
22.5°	7518.6	5970.8	3102.6	1959.5	1885.0	1966.6	2037.6	2058.9	2048.2	2027.0	2023.4
25°	7472.4	5651.4	2591.4	1757.2	1796.2	1885.0	1952.4	1913.3	1892.0	1895.6	1899.2
27.5°	7390.8	5246.6	2169.0	1615.2	1675.5	1806.9	1803.3	1789.2	1810.5	1792.7	1810.5
30°	7376.6	4842.0	1821.1	1487.4	1586.7	1682.7	1689.7	1714.6	1739.4	1707.5	1739.4
32.5°	7397.9	4398.3	1572.6	1409.3	1533.5	1537.1	1615.2	1640.0	1622.3	1551.3	1558.4
35°	7561.2	4057.5	1391.5	1366.7	1448.3	1451.9	1526.5	1494.5	1416.4	1373.8	1398.7
37.5°	7905.5	3773.5	1306.4	1327.7	1334.8	1380.9	1384.4	1320.5	1327.7	1324.1	1338.3
40°	8345.7	3556.9	1246.0	1292.1	1285.1	1317.0	1189.2	1224.7	1256.6	1267.3	1274.4
42.5°	8647.5	3400.7	1206.9	1235.3	1221.2	1164.3	1093.4	1128.9	1153.7	1192.7	1199.9
45°	8782.4	3276.5	1160.8	1136.0	1136.0	1033.0	1004.6	1011.7	1068.5	1111.1	1104.0
47.5°	8562.3	3155.8	1079.1	1004.6	1029.5	944.3	912.3	912.3	972.6	1025.9	1015.2
48°	8477.1	3106.1	1082.7	976.2	993.9	930.0	898.1	891.0	958.5	1008.2	1008.2
50°	8054.6	2921.5	990.4	898.1	862.6	855.5	834.2	841.3	883.9	930.0	930.0
52.5°	7231.0	2523.9	837.7	770.3	706.4	749.0	759.7	745.5	766.8	809.4	805.8
55°	6034.7	1938.2	671.0	639.0	589.3	635.4	656.7	639.0	617.7	649.7	649.7
57.5°	3865.7	1043.7	536.0	543.1	493.4	539.6	557.3	514.7	475.7	500.5	497.0
60°	1743.0	624.8	440.2	429.6	397.6	450.9	479.2	429.6	376.3	394.0	411.8
62.5°	653.2	443.7	333.7	326.6	319.5	369.2	383.4	344.4	291.1	301.8	305.3
65°	479.2	390.5	266.2	241.4	255.6	291.1	284.0	244.9	209.5	209.5	216.6
67.5°	408.3	340.8	216.6	188.2	188.2	191.7	177.5	156.2	145.6	152.6	159.7
70°	319.5	269.8	170.4	145.6	131.3	117.1	103.0	99.4	88.7	99.4	95.8
72.5°	205.9	181.0	131.3	110.0	99.4	81.7	67.4	63.9	53.2	49.7	49.7
75°	110.0	110.0	103.0	88.7	78.1	63.9	53.2	42.6	28.4	21.3	21.3
77.5°	78.1	85.2	92.3	85.2	71.0	53.2	42.6	28.4	14.2	7.1	7.1
80°	74.5	85.2	92.3	81.7	71.0	53.2	39.1	21.3	10.6	3.5	3.5
82.5°	67.4	78.1	85.2	74.5	63.9	46.1	35.5	21.3	10.6	3.5	3.5
85°	14.2	17.8	21.3	21.3	24.8	31.9	24.8	17.8	7.1	3.5	3.5
87.5°	10.6	10.6	10.6	10.6	10.6	10.6	7.1	7.1	3.5	3.5	3.5
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)