

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: P530333

Luminaire Tested: **GALN-SA5C-740-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530333
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-SA5C-740-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 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: 26264 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

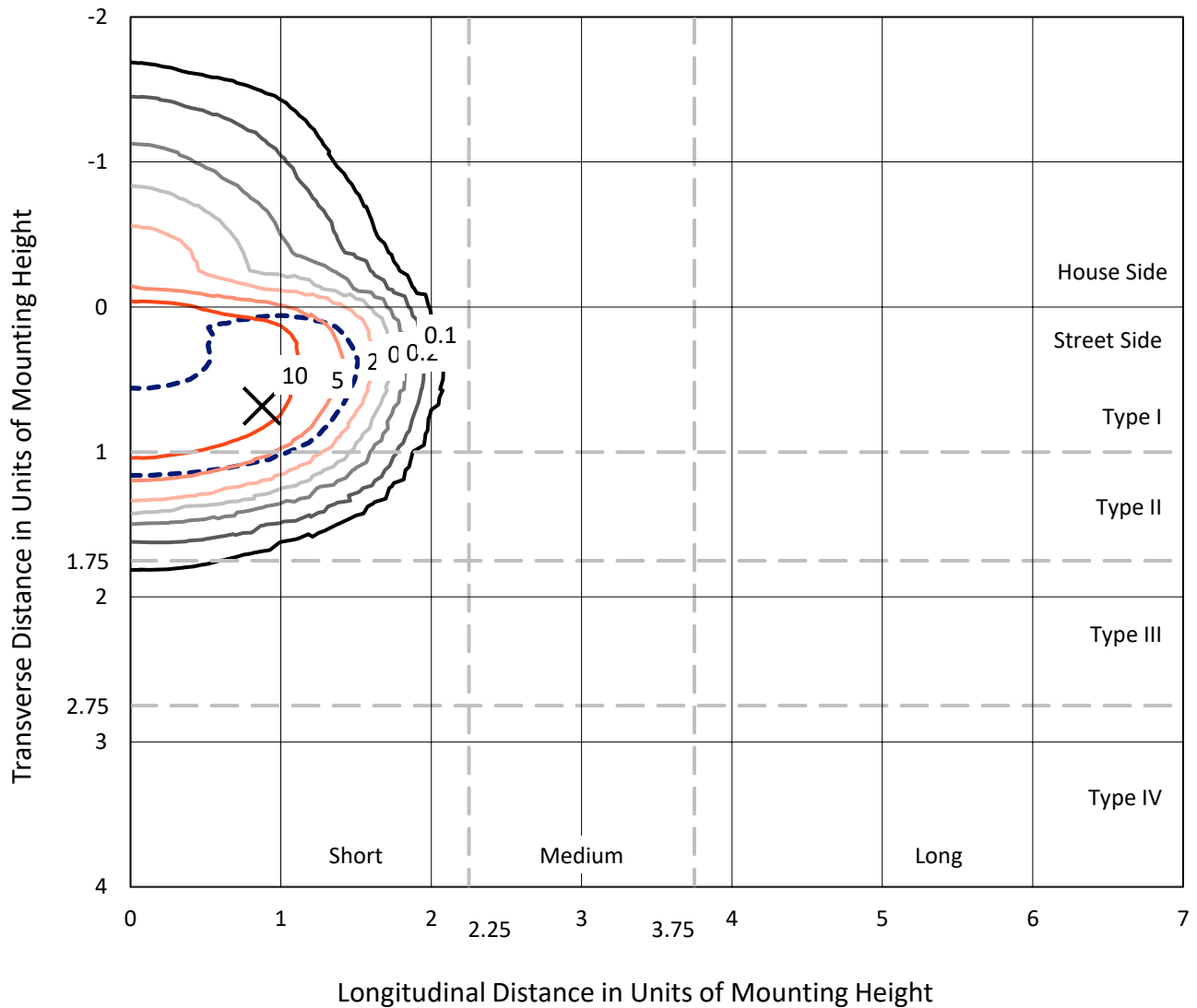
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

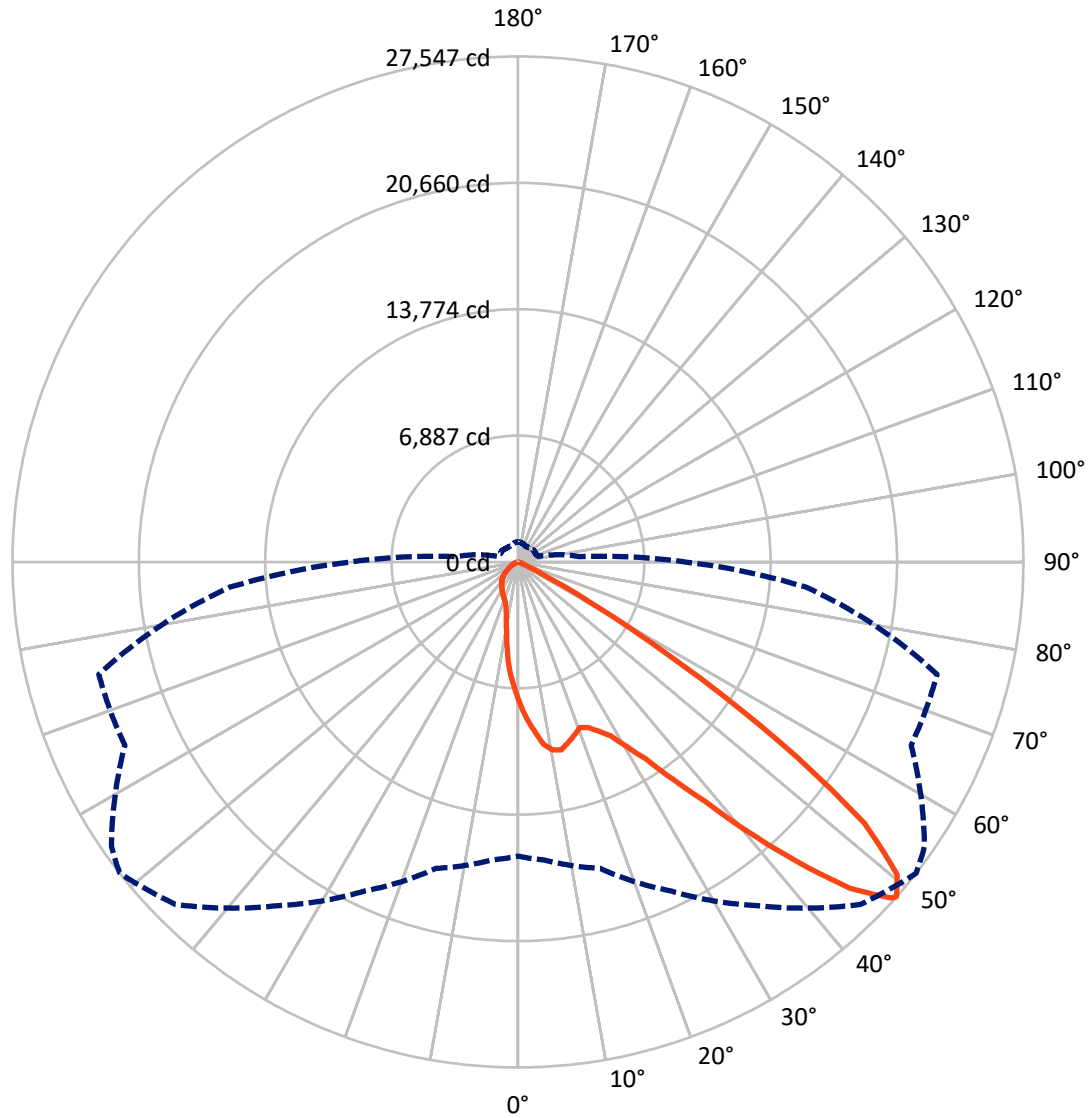
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 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	3197.8	0.0	3197.8
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	23066.1	0.0	23066.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	26264.0	0.0	26264.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	694.2	2.6
10°-20°	1814.2	6.9
20°-30°	3097.6	11.8
30°-40°	5704.2	21.7
40°-50°	8858.7	33.7
50°-60°	5331.4	20.3
60°-70°	616.6	2.3
70°-80°	119.4	0.5
80°-90°	27.6	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°	26264.0	100.0
0°-180°	26264.0	100.0

Coefficient of Utilization



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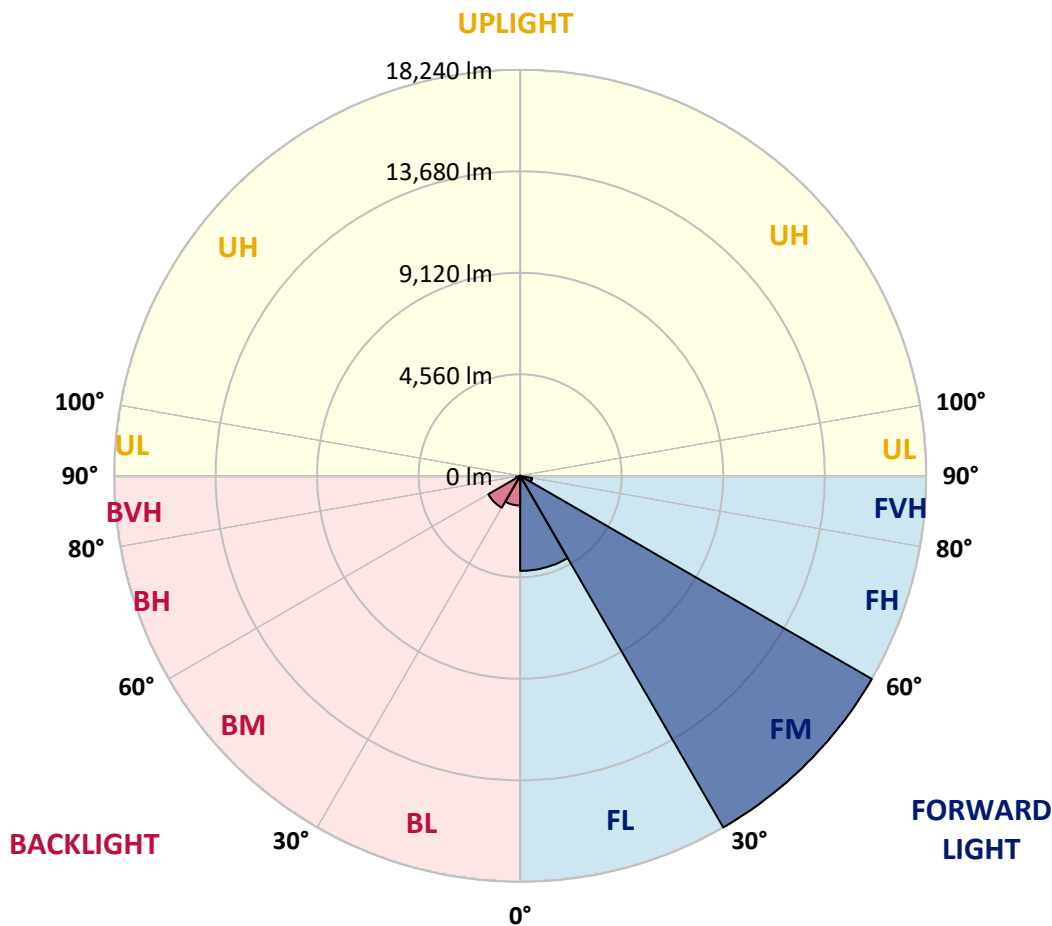
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4270.2	16.3			
FM (30°-60°)	18239.8	69.4			
FH (60°-80°)	543.0	2.1			G0/660
FVH (80°-90°)	13.1	0.1			G1/100
BL (0°-30°)	1335.8	5.1	B3/2500		
BM (30°-60°)	1654.5	6.3	B2/2500		
BH (60°-80°)	193.0	0.7	B1/500		G1/500
BVH (80°-90°)	14.5	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°	7584.6	7584.6	7584.6	7584.6	7584.6	7584.6	7584.6	7584.6	7584.6	7584.6	7584.6
2.5°	9192.7	8982.1	9001.2	8863.4	8783.0	8652.8	8476.7	8442.2	8250.8	7990.4	7726.3
5°	10019.6	9969.9	10035.0	9835.9	9843.5	9629.1	9215.6	9223.3	8783.0	8358.0	7948.3
7.5°	10073.2	9958.4	10023.5	10199.6	10303.0	10264.7	10031.1	9828.2	9410.9	8786.8	8189.5
10°	9020.4	9238.6	9307.5	9598.5	10012.0	10448.5	10421.7	10433.1	10084.7	9269.2	8396.3
12.5°	8388.6	8243.1	8476.7	8652.8	9276.9	10123.0	10509.7	10593.9	10620.7	9736.3	8603.0
15°	8101.5	8101.5	8139.8	8189.5	8641.3	9422.4	10211.1	10456.1	11034.2	10348.9	8928.5
17.5°	8281.4	8273.8	8327.4	8224.0	8392.5	8993.6	9935.4	10214.9	11497.5	10950.0	9185.0
20°	8828.9	8855.7	8821.3	8522.6	8534.1	8985.9	9629.1	10069.4	11811.5	11470.7	9525.7
22.5°	9590.8	9606.1	9410.9	9085.4	8989.7	9211.8	9805.2	10142.2	12064.2	12094.8	9629.1
25°	10471.4	10410.2	10371.9	9912.4	9621.5	9812.9	10203.4	10398.7	12221.1	12630.8	9923.9
27.5°	11692.8	11570.3	11336.7	10927.0	10712.6	10440.8	10720.3	11041.9	12669.1	13381.2	10245.5
30°	13496.1	13388.9	12933.3	12404.9	11842.1	11574.1	11662.1	11838.3	13476.9	14250.3	10670.5
32.5°	16210.6	15984.7	15326.2	14319.2	13553.5	12814.6	12791.6	12979.2	14200.6	15452.5	11175.9
35°	19200.8	19131.9	18163.2	17125.7	15644.0	14503.0	14522.2	14621.7	15586.5	17030.0	11838.3
37.5°	21187.9	21566.9	20950.5	19836.4	18592.1	16961.0	16547.5	16582.0	17489.4	18898.3	13032.8
40°	22723.2	22401.6	22474.3	22214.0	21364.0	20253.7	19338.6	19158.7	19690.9	20965.8	14219.7
42.5°	22053.2	22068.5	22516.4	23132.9	23343.4	23263.0	22328.8	21988.1	21574.6	22658.1	15349.2
45°	20161.8	20556.2	21138.1	22769.1	24201.1	25544.9	25361.1	24794.5	22876.3	23998.1	16000.0
47.5°	17144.8	17129.5	18082.8	20203.9	23385.6	26532.7	27367.4	26969.2	23799.0	23848.8	15866.0
48°	16030.7	16306.3	17290.3	19786.6	22868.7	26387.2	27547.3	27045.8	23642.1	23649.7	15751.2
50°	11849.8	11800.0	13025.2	16088.1	20426.0	24794.5	26789.2	27179.8	23638.2	22642.8	14947.2
52.5°	6259.9	6474.3	7366.4	10115.4	14441.8	20292.0	23630.6	24239.3	22803.6	20996.5	13790.9
55°	2660.9	2404.4	3089.7	4567.6	8124.5	13557.3	17336.2	18691.6	19281.2	18580.6	12064.2
57.5°	949.5	1037.6	1194.5	1719.1	3415.2	7420.0	10337.4	11390.3	13358.3	13633.9	8220.2
60°	608.8	620.2	670.0	788.7	1282.6	2860.0	4904.5	5743.0	6635.1	6849.5	3836.3
62.5°	470.9	474.8	497.7	516.9	608.8	1110.3	1841.6	2182.3	2266.6	1948.8	1006.9
65°	394.4	398.2	405.8	405.8	432.6	520.7	643.2	708.3	689.2	681.5	570.5
67.5°	302.5	310.1	325.4	325.4	340.8	317.8	356.1	379.0	428.8	520.7	486.2
70°	237.4	241.2	252.7	260.3	260.3	229.7	256.5	279.5	314.0	386.7	382.9
72.5°	183.8	191.4	199.1	199.1	187.6	157.0	183.8	202.9	225.9	268.0	260.3
75°	141.7	141.7	145.5	118.7	91.9	80.4	111.0	134.0	168.5	176.1	145.5
77.5°	38.3	42.1	38.3	34.5	38.3	57.4	72.7	84.2	107.2	107.2	95.7
80°	0.0	3.8	11.5	23.0	38.3	53.6	65.1	72.7	84.2	91.9	88.1
82.5°	0.0	3.8	11.5	23.0	34.5	42.1	57.4	61.3	68.9	80.4	80.4
85°	0.0	3.8	7.7	15.3	23.0	26.8	26.8	23.0	23.0	19.1	15.3
87.5°	0.0	0.0	3.8	7.7	7.7	11.5	11.5	11.5	11.5	11.5	11.5
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°	7584.6	7584.6	7584.6	7584.6	7584.6	7584.6	7584.6	7584.6	7584.6	7584.6	7584.6
2.5°	7622.9	7504.2	7324.3	7040.9	6769.1	6593.0	6424.5	6236.9	6133.5	6125.9	6068.5
5°	7714.8	7446.8	7018.0	6531.7	6011.0	5563.1	5111.3	4816.5	4552.3	4406.8	4380.0
7.5°	7764.6	7416.1	6723.2	5907.6	5019.4	4288.1	3782.7	3411.4	3265.9	3158.7	3154.8
10°	7867.9	7362.5	6282.9	5080.7	3981.8	3242.9	2894.5	2726.0	2645.6	2615.0	2569.0
12.5°	7944.5	7263.0	5831.1	4230.7	3147.2	2687.7	2534.6	2496.3	2500.1	2515.4	2496.3
15°	8051.7	7174.9	5222.3	3472.6	2641.8	2419.7	2419.7	2427.4	2481.0	2488.6	2484.8
17.5°	8044.0	7002.6	4594.4	2860.0	2335.5	2304.9	2316.3	2389.1	2423.6	2435.0	2408.2
20°	8135.9	6841.8	3947.4	2442.7	2163.2	2209.1	2285.7	2304.9	2347.0	2354.6	2324.0
22.5°	8109.1	6439.8	3346.3	2113.4	2033.0	2121.1	2197.7	2220.6	2209.1	2186.2	2182.3
25°	8059.4	6095.3	2794.9	1895.2	1937.3	2033.0	2105.8	2063.7	2040.7	2044.5	2048.3
27.5°	7971.3	5658.8	2339.3	1742.0	1807.1	1948.8	1945.0	1929.7	1952.6	1933.5	1952.6
30°	7956.0	5222.3	1964.1	1604.2	1711.4	1814.8	1822.4	1849.3	1876.1	1841.6	1876.1
32.5°	7979.0	4743.7	1696.1	1520.0	1654.0	1657.8	1742.0	1768.8	1749.7	1673.1	1680.8
35°	8155.1	4376.2	1500.8	1474.0	1562.1	1565.9	1646.3	1611.9	1527.6	1481.7	1508.5
37.5°	8526.5	4069.9	1409.0	1431.9	1439.6	1489.4	1493.2	1424.3	1431.9	1428.1	1443.4
40°	9001.2	3836.3	1343.9	1393.6	1386.0	1420.4	1282.6	1320.9	1355.4	1366.8	1374.5
42.5°	9326.7	3667.9	1301.7	1332.4	1317.1	1255.8	1179.2	1217.5	1244.3	1286.4	1294.1
45°	9472.1	3533.9	1252.0	1225.2	1225.2	1114.1	1083.5	1091.2	1152.4	1198.4	1190.7
47.5°	9234.8	3403.7	1163.9	1083.5	1110.3	1018.4	984.0	984.0	1049.1	1106.5	1095.0
48°	9142.9	3350.1	1167.7	1052.9	1072.0	1003.1	968.7	961.0	1033.7	1087.3	1087.3
50°	8687.3	3151.0	1068.2	968.7	930.4	922.7	899.7	907.4	953.3	1003.1	1003.1
52.5°	7799.0	2722.2	903.6	830.8	761.9	807.9	819.3	804.0	827.0	872.9	869.1
55°	6508.7	2090.5	723.6	689.2	635.6	685.3	708.3	689.2	666.2	700.6	700.6
57.5°	4169.4	1125.6	578.1	585.8	532.2	582.0	601.1	555.2	513.0	539.8	536.0
60°	1879.9	673.8	474.8	463.3	428.8	486.2	516.9	463.3	405.8	425.0	444.1
62.5°	704.5	478.6	359.9	352.2	344.6	398.2	413.5	371.4	314.0	325.4	329.3
65°	516.9	421.2	287.2	260.3	275.7	314.0	306.3	264.2	225.9	225.9	233.5
67.5°	440.3	367.6	233.5	202.9	202.9	206.7	191.4	168.5	157.0	164.6	172.3
70°	344.6	291.0	183.8	157.0	141.7	126.3	111.0	107.2	95.7	107.2	103.4
72.5°	222.1	195.3	141.7	118.7	107.2	88.1	72.7	68.9	57.4	53.6	53.6
75°	118.7	118.7	111.0	95.7	84.2	68.9	57.4	45.9	30.6	23.0	23.0
77.5°	84.2	91.9	99.5	91.9	76.6	57.4	45.9	30.6	15.3	7.7	7.7
80°	80.4	91.9	99.5	88.1	76.6	57.4	42.1	23.0	11.5	3.8	3.8
82.5°	72.7	84.2	91.9	80.4	68.9	49.8	38.3	23.0	11.5	3.8	3.8
85°	15.3	19.1	23.0	23.0	26.8	34.5	26.8	19.1	7.7	3.8	3.8
87.5°	11.5	11.5	11.5	11.5	11.5	11.5	7.7	7.7	3.8	3.8	3.8
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)