

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: P452659

Luminaire Tested: **GALN-SA3C-827-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452659
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3C-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15579 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

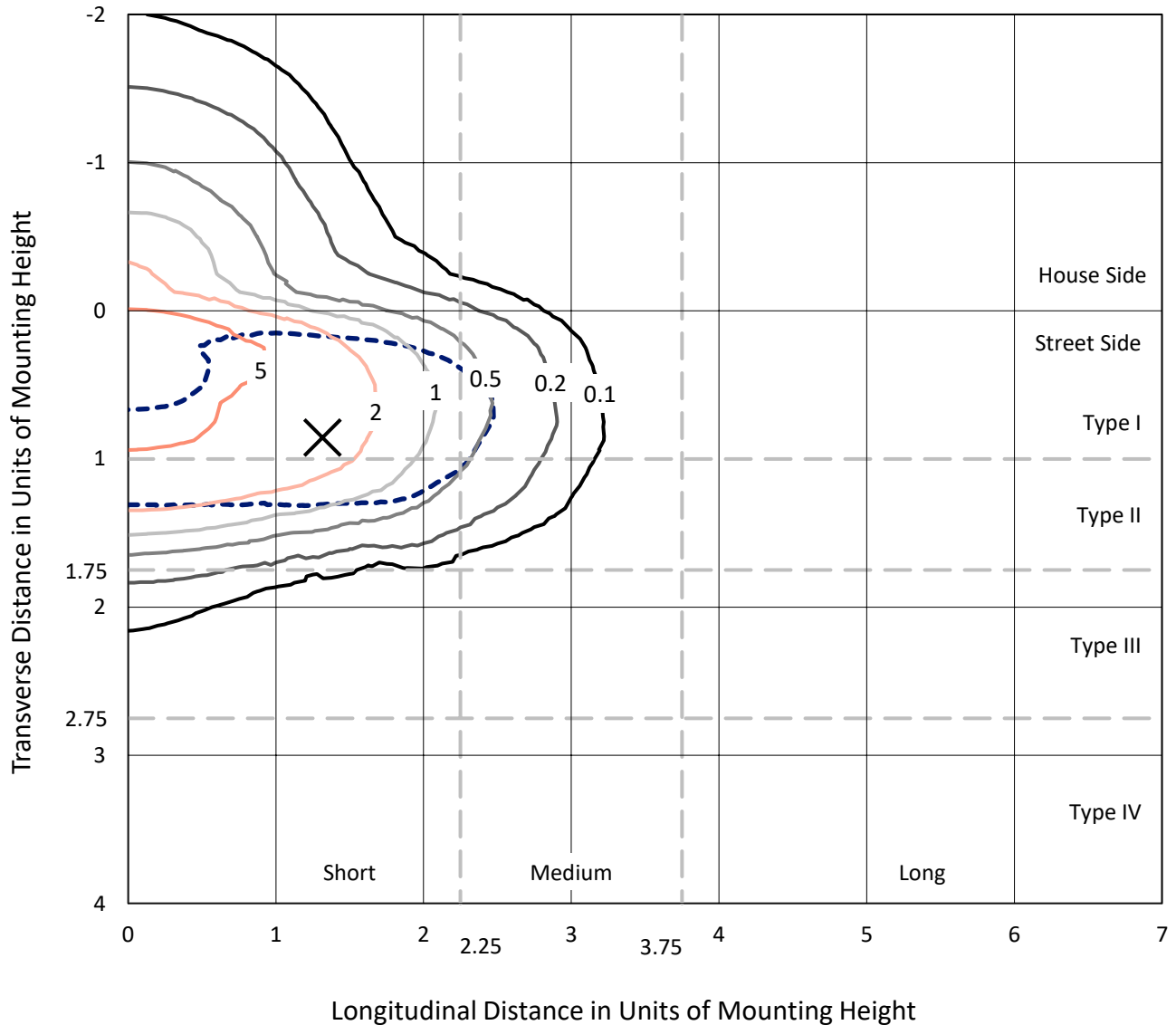
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

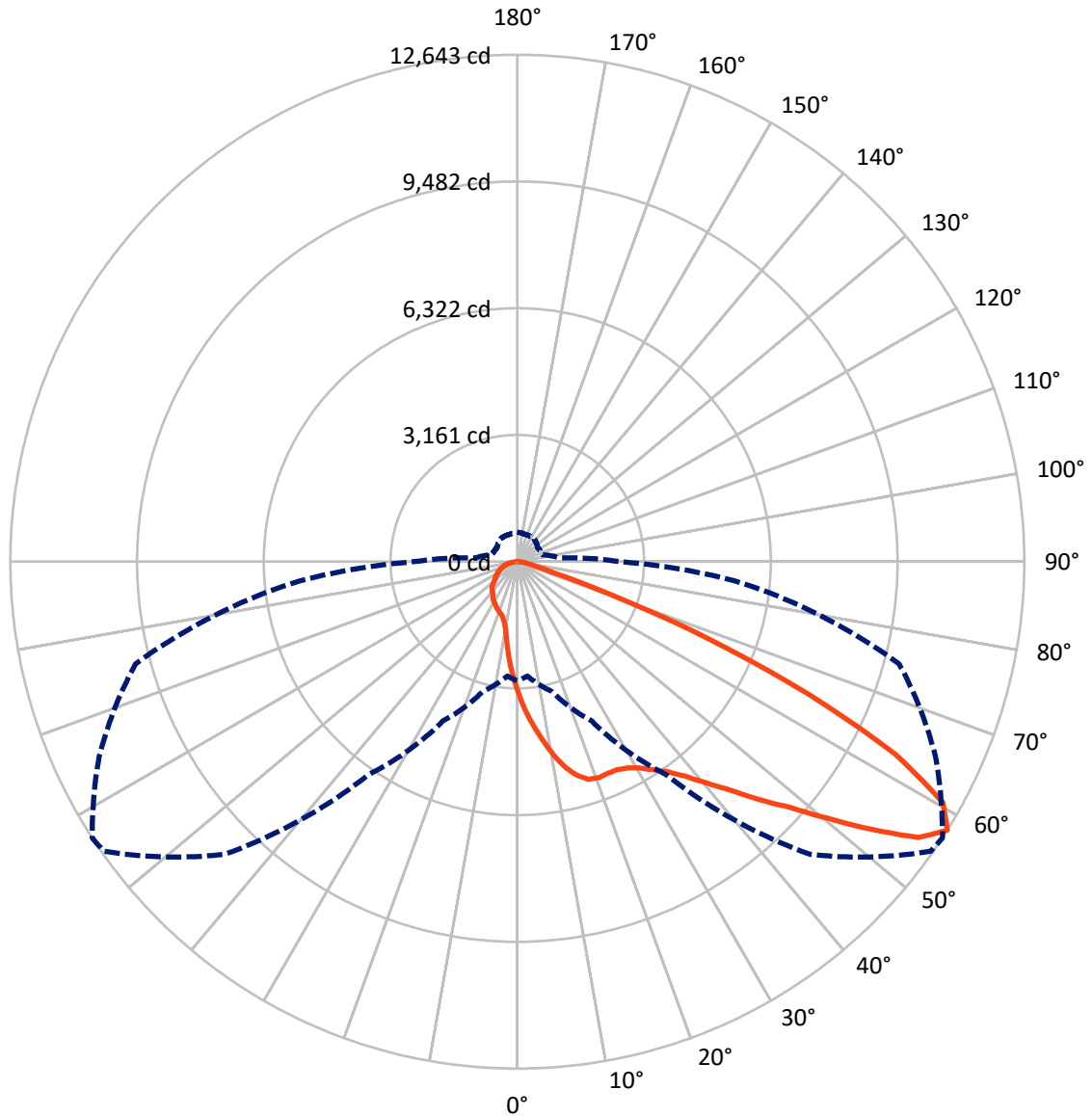
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2369.1	0.0	2369.1
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	13209.9	0.0	13209.9
	% Fixture	84.8	0.0	84.8
Total	Lumens	15579.0	0.0	15579.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.6	2.0
10°-20°	927.0	6.0
20°-30°	1539.4	9.9
30°-40°	2318.7	14.9
40°-50°	3481.4	22.3
50°-60°	3902.2	25.0
60°-70°	2283.7	14.7
70°-80°	675.5	4.3
80°-90°	136.5	0.9
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°	15579.0	100.0
0°-180°	15579.0	100.0



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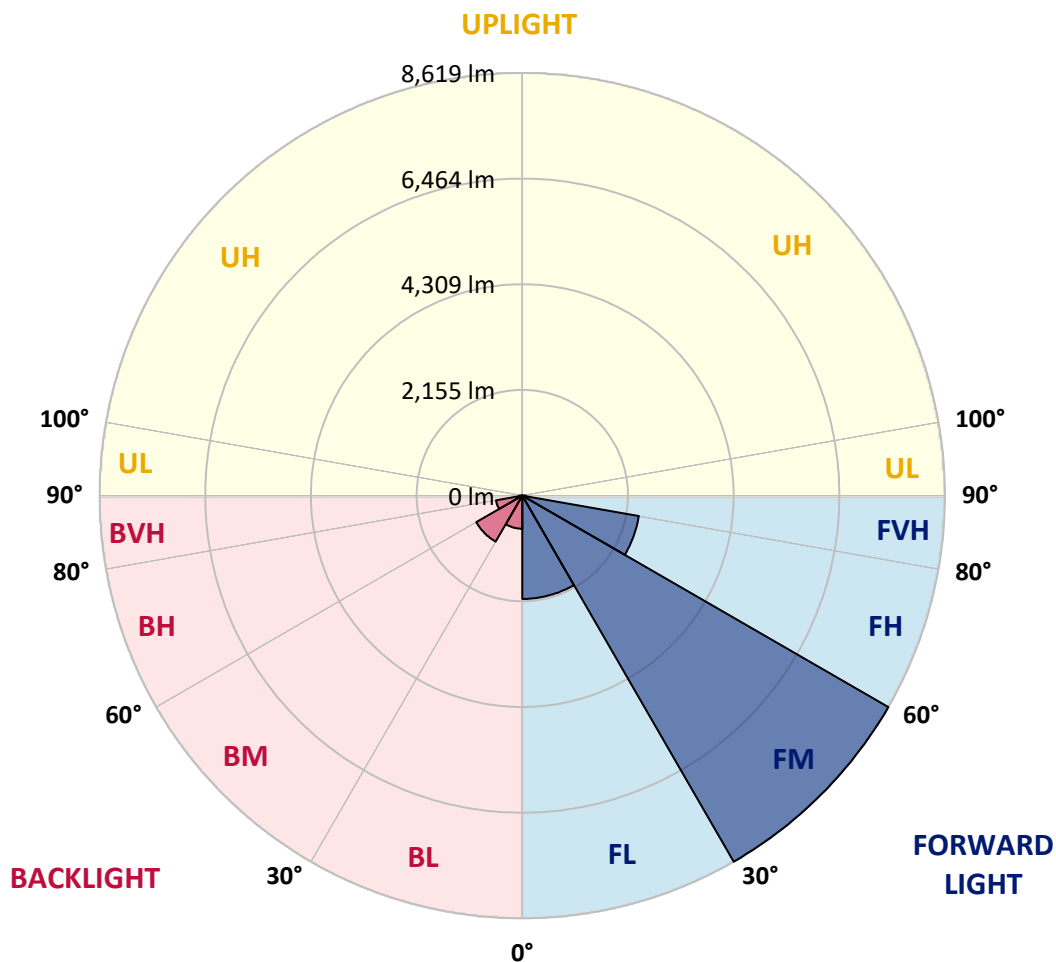
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2105.9	13.5			
FM	(30°-60°)	8619.0	55.3			
FH	(60°-80°)	2414.1	15.5			G2/5000
FVH	(80°-90°)	70.8	0.5			G1/100
BL	(0°-30°)	675.0	4.3	B2/1000		
BM	(30°-60°)	1083.3	7.0	B2/2500		
BH	(60°-80°)	545.1	3.5	B2/1000		G2/1000
BVH	(80°-90°)	65.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3273.0	3273.0	3273.0	3273.0	3273.0	3273.0	3273.0	3273.0	3273.0	3273.0	3273.0
2.5°	4066.9	4022.6	3987.6	3956.9	3916.8	3808.5	3700.2	3698.5	3612.4	3479.3	3342.9
5°	4729.5	4669.8	4677.5	4582.0	4486.5	4329.6	4100.2	4088.2	3904.9	3655.9	3402.6
7.5°	5161.0	5161.9	5138.0	5083.4	4980.2	4802.0	4541.9	4483.1	4228.1	3850.3	3470.8
10°	5138.9	5161.9	5202.0	5248.9	5280.4	5192.6	4955.5	4883.9	4552.1	4085.7	3546.7
12.5°	4843.8	4879.6	4936.7	5054.4	5244.6	5389.6	5308.6	5250.6	4927.4	4320.2	3630.3
15°	4659.6	4680.9	4712.5	4791.8	4996.4	5343.5	5553.3	5522.6	5281.3	4585.4	3724.1
17.5°	4603.3	4624.6	4634.9	4683.5	4829.3	5184.9	5649.7	5704.2	5595.1	4829.3	3818.7
20°	4659.6	4669.8	4669.8	4698.8	4813.1	5091.9	5645.4	5755.4	5852.6	5121.8	3907.4
22.5°	4807.1	4811.4	4805.4	4815.6	4900.9	5117.5	5605.3	5741.8	6060.7	5370.0	3976.5
25°	5046.8	5053.6	5014.3	4990.5	5052.7	5230.1	5627.5	5752.9	6223.6	5607.0	4022.6
27.5°	5318.8	5327.3	5279.6	5224.1	5253.1	5369.1	5714.5	5827.0	6345.5	5840.7	4051.6
30°	5652.2	5655.6	5575.5	5509.0	5490.2	5576.3	5862.9	5967.8	6497.3	6116.1	4095.0
32.5°	5993.3	6018.9	5915.7	5821.9	5790.4	5816.8	6082.0	6183.5	6678.1	6412.1	4165.0
35°	6457.3	6461.5	6337.9	6223.6	6119.5	6153.7	6362.6	6435.9	6928.0	6754.0	4263.9
37.5°	7036.3	7075.5	6905.0	6691.8	6563.8	6514.4	6702.0	6782.2	7278.5	7173.6	4413.1
40°	7679.3	7693.8	7548.0	7414.9	7181.3	7038.0	7167.6	7254.6	7710.8	7674.2	4586.3
42.5°	8083.5	8115.1	8126.1	8112.5	7936.8	7696.3	7745.8	7786.7	8222.5	8144.0	4763.6
45°	8219.9	8266.8	8425.5	8761.5	8780.2	8543.1	8428.0	8467.3	8780.2	8618.2	4933.3
47.5°	7994.0	8074.1	8366.6	9055.7	9571.6	9589.5	9242.4	9156.3	9288.5	9011.3	5056.1
50°	7409.8	7426.9	7874.6	8872.3	9942.6	10589.8	10230.8	10070.5	9771.2	9302.1	5140.6
52.5°	6505.9	6525.5	6900.7	8020.4	9714.0	11289.1	11387.2	11100.6	10261.5	9528.1	5196.0
55°	4829.3	4942.7	5355.5	6437.6	8631.0	11223.4	12306.5	12143.6	10854.2	9707.2	5283.0
57.5°	2969.4	2865.3	3354.8	4379.9	6491.4	10321.2	12590.4	12643.3	11506.6	9857.3	5428.8
60°	1366.2	1386.6	1588.7	2259.0	3956.9	8074.1	11858.8	12193.0	11867.3	9852.2	5465.5
62.5°	941.5	922.7	871.5	991.8	1804.5	5106.4	10016.8	10583.0	11144.1	9546.0	5319.6
65°	841.7	822.9	724.0	690.8	828.9	2225.8	7281.9	7996.5	9383.1	8773.4	4956.4
67.5°	786.3	760.7	658.3	593.5	591.8	886.0	4293.7	5154.2	6959.5	7417.5	4294.6
70°	728.3	707.8	606.3	534.7	504.0	556.9	1887.2	2470.5	4518.9	5345.2	3345.5
72.5°	670.3	646.4	555.2	478.4	438.3	417.0	723.2	940.6	2553.2	3204.7	2050.9
75°	585.9	573.9	496.3	433.2	389.7	336.8	458.8	523.6	1221.2	1471.9	1029.3
77.5°	512.5	499.7	440.9	378.6	347.1	273.7	325.8	355.6	515.1	596.9	464.8
80°	375.2	388.0	371.8	334.3	309.6	214.9	219.2	243.9	306.1	338.6	284.0
82.5°	237.9	261.8	286.5	257.5	234.5	169.7	151.8	161.2	208.9	221.7	126.2
85°	99.8	101.5	166.3	156.9	133.9	100.6	91.2	96.4	111.7	116.8	58.8
87.5°	38.4	37.5	58.8	54.6	41.8	29.0	29.0	32.4	44.3	40.9	18.8
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°	3273.0	3273.0	3273.0	3273.0	3273.0	3273.0	3273.0	3273.0	3273.0	3273.0	3273.0
2.5°	3284.1	3223.5	3103.3	2954.0	2844.9	2722.1	2613.8	2536.2	2507.2	2493.5	2467.9
5°	3281.5	3162.1	2913.1	2652.1	2442.4	2227.5	2045.8	1928.1	1917.9	1839.4	1831.8
7.5°	3282.4	3099.9	2703.3	2319.6	1999.8	1779.8	1629.7	1590.4	1543.5	1531.6	1537.6
10°	3284.9	3020.5	2478.2	1990.4	1680.8	1536.7	1480.4	1465.1	1466.8	1471.9	1472.8
12.5°	3288.3	2943.8	2244.5	1740.5	1501.7	1442.1	1436.1	1449.7	1464.2	1475.3	1477.9
15°	3292.6	2856.0	2016.8	1539.3	1412.2	1407.1	1426.7	1449.7	1470.2	1486.4	1489.0
17.5°	3287.5	2753.6	1825.8	1415.6	1362.7	1387.5	1419.9	1448.9	1467.6	1483.0	1484.7
20°	3275.5	2639.4	1641.6	1328.6	1332.0	1372.1	1407.1	1434.4	1454.8	1462.5	1468.5
22.5°	3229.5	2502.9	1481.3	1261.3	1295.4	1350.8	1392.6	1408.8	1385.8	1369.6	1373.8
25°	3151.0	2325.5	1332.0	1206.7	1262.1	1321.0	1363.6	1324.4	1305.6	1298.8	1302.2
27.5°	3053.0	2131.1	1219.5	1149.5	1219.5	1287.7	1275.8	1268.9	1260.4	1249.3	1251.9
30°	2947.2	1940.9	1124.0	1105.2	1173.4	1212.7	1217.8	1228.9	1219.5	1202.4	1209.2
32.5°	2849.1	1761.8	1051.5	1067.7	1141.0	1135.1	1173.4	1186.2	1142.7	1085.6	1088.1
35°	2765.6	1595.6	996.9	1031.0	1085.6	1088.1	1126.5	1082.2	1035.3	1008.0	1009.7
37.5°	2702.5	1465.9	961.1	999.5	1014.8	1047.2	1026.7	1003.7	997.8	979.0	979.8
40°	2664.9	1352.5	938.1	974.7	972.2	994.3	928.7	951.7	960.2	954.3	955.1
42.5°	2627.4	1272.3	914.2	940.6	939.8	896.3	881.8	901.4	923.6	926.1	924.4
45°	2597.6	1210.1	889.4	888.6	905.7	837.4	833.2	845.1	876.7	892.0	891.2
47.5°	2564.3	1158.1	851.9	828.0	833.2	800.8	793.9	799.1	837.4	862.2	869.0
50°	2522.5	1106.1	805.0	772.6	751.3	766.6	768.4	769.2	807.6	835.7	841.7
52.5°	2489.3	1066.8	751.3	727.4	701.8	735.9	748.7	750.4	773.5	796.5	800.8
55°	2508.9	1044.7	698.4	681.4	658.3	704.4	729.1	732.5	737.7	754.7	757.3
57.5°	2567.7	1049.8	655.8	633.6	616.6	666.9	708.7	711.2	707.8	728.3	731.7
60°	2585.6	1047.2	624.2	580.7	570.5	626.8	678.8	683.9	683.1	712.9	718.9
62.5°	2510.6	1014.8	592.7	536.4	529.6	585.9	637.0	657.5	661.8	704.4	712.1
65°	2334.1	948.3	550.9	489.5	489.5	542.4	596.9	625.1	637.0	694.2	702.7
67.5°	2101.2	869.8	508.3	449.4	447.7	500.6	554.3	583.3	602.1	679.7	684.8
70°	1743.9	764.1	455.4	405.9	405.9	453.7	502.3	537.3	564.5	652.4	652.4
72.5°	1194.7	635.3	391.4	356.5	357.3	401.7	451.1	490.3	522.8	597.8	599.5
75°	755.6	496.3	321.5	303.6	307.0	348.8	400.0	440.9	505.7	591.0	593.5
77.5°	401.7	348.8	255.8	251.6	255.8	294.2	351.3	407.6	507.4	512.5	504.0
80°	260.1	247.3	202.1	193.6	195.3	237.1	313.0	387.2	407.6	412.7	394.0
82.5°	141.6	156.9	143.3	134.7	134.7	185.1	266.9	307.9	292.5	243.0	232.0
85°	60.5	73.3	74.2	64.8	62.3	114.3	179.1	168.0	156.1	149.2	147.5
87.5°	17.1	23.9	23.9	17.9	13.6	31.6	35.8	10.2	0.0	0.9	1.7
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)