

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: P452688

Luminaire Tested: **GALN-SA3C-830-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452688
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-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16841 lumens
Efficiency: N/A
Efficacy: 105.3 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



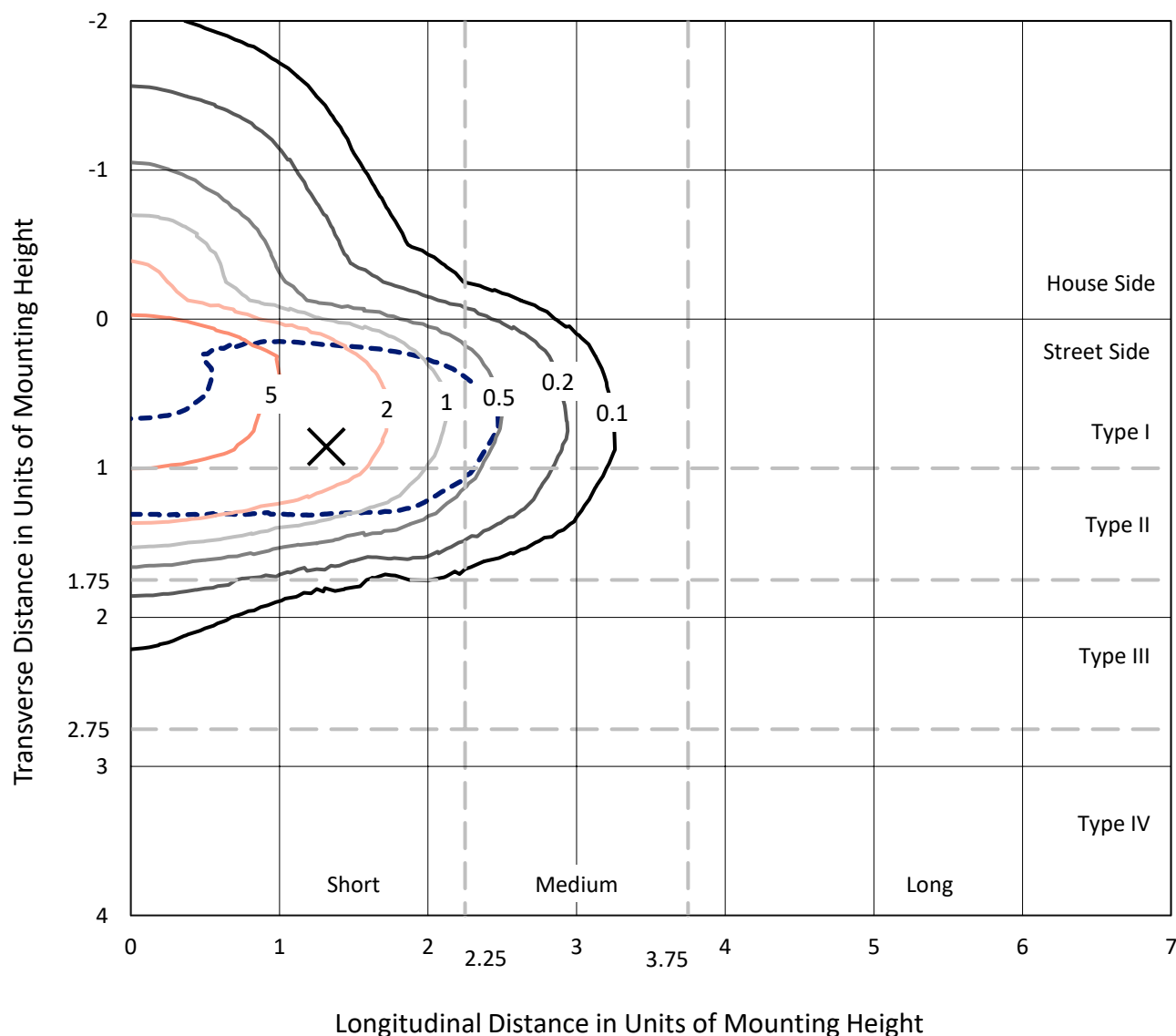
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



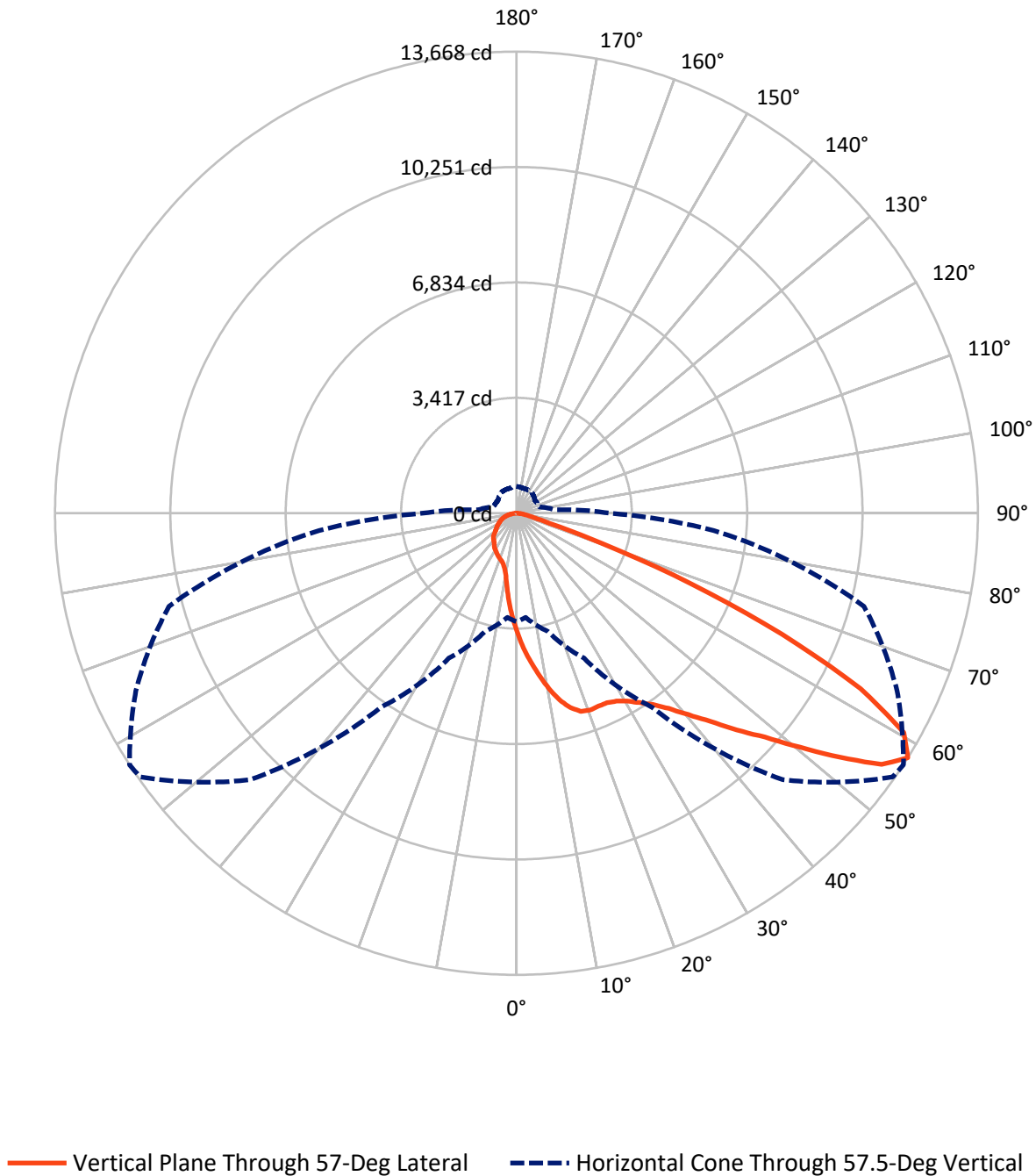
Based on 25 foot mounting height. Maximum calculated value = 8.6 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2561.0	0.0	2561.0
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	14280.0	0.0	14280.0
	% Fixture	84.8	0.0	84.8
Total	Lumens	16841.0	0.0	16841.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.0	2.0
10°-20°	1002.1	6.0
20°-30°	1664.1	9.9
30°-40°	2506.6	14.9
40°-50°	3763.4	22.3
50°-60°	4218.3	25.0
60°-70°	2468.7	14.7
70°-80°	730.2	4.3
80°-90°	147.6	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°	16841.0	100.0
0°-180°	16841.0	100.0

Coefficient of Utilization



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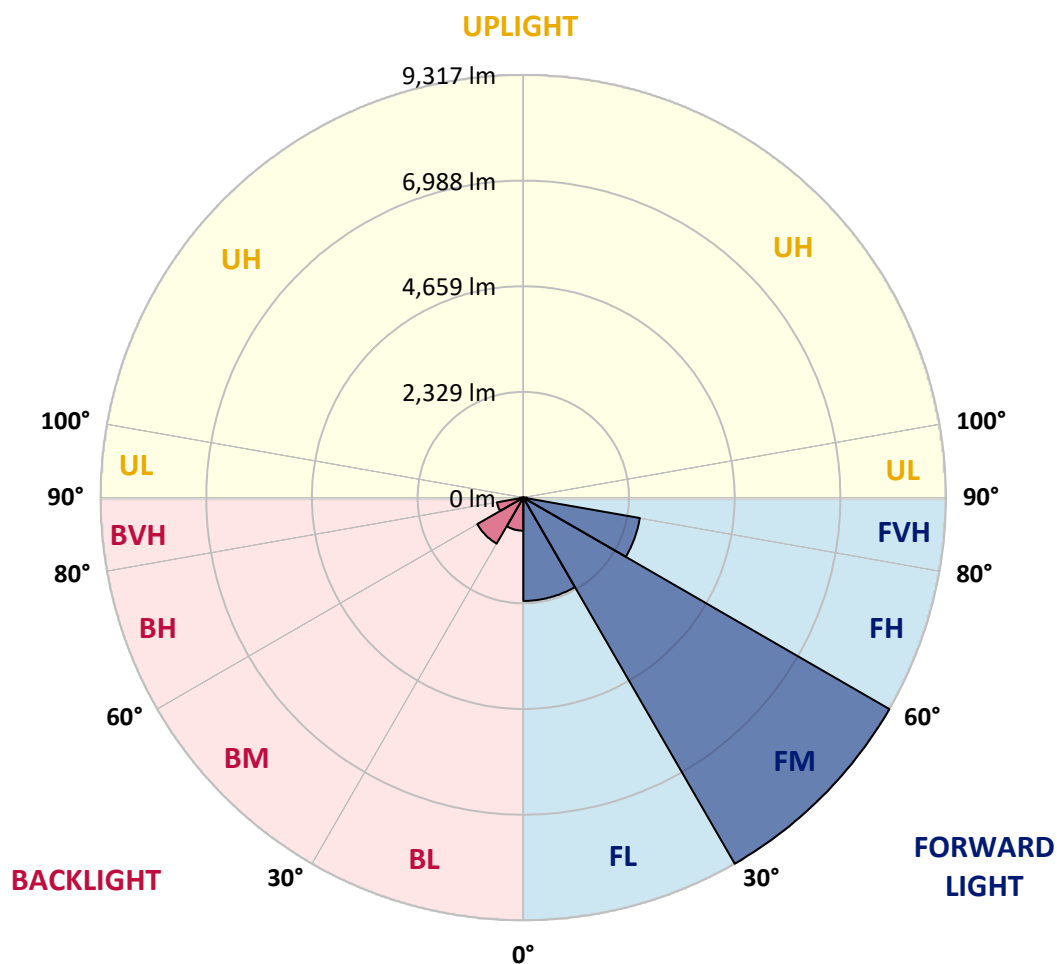
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2276.5	13.5			
FM	(30°-60°)	9317.2	55.3			
FH	(60°-80°)	2609.7	15.5			G2/5000
FVH	(80°-90°)	76.6	0.5			G1/100
BL	(0°-30°)	729.7	4.3	B2/1000		
BM	(30°-60°)	1171.0	7.0	B2/2500		
BH	(60°-80°)	589.3	3.5	B2/1000		G2/1000
BVH	(80°-90°)	71.0	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°	3538.1	3538.1	3538.1	3538.1	3538.1	3538.1	3538.1	3538.1	3538.1	3538.1	3538.1
2.5°	4396.4	4348.4	4310.6	4277.4	4234.1	4117.0	4000.0	3998.1	3905.0	3761.2	3613.7
5°	5112.6	5048.1	5056.4	4953.2	4849.9	4680.3	4432.3	4419.4	4221.2	3952.0	3678.2
7.5°	5579.1	5580.0	5554.2	5495.2	5383.7	5191.0	4909.8	4846.2	4570.6	4162.2	3752.0
10°	5555.1	5580.0	5623.4	5674.1	5708.2	5613.2	5356.9	5279.5	4920.9	4416.6	3834.0
12.5°	5236.2	5274.9	5336.7	5463.9	5669.4	5826.2	5738.6	5675.9	5326.5	4670.1	3924.4
15°	5037.0	5060.1	5094.2	5179.9	5401.2	5776.4	6003.2	5970.0	5709.1	4956.8	4025.8
17.5°	4976.2	4999.3	5010.3	5062.9	5220.5	5604.9	6107.3	6166.3	6048.3	5220.5	4128.1
20°	5037.0	5048.1	5048.1	5079.5	5203.0	5504.4	6102.7	6221.6	6326.7	5536.7	4224.0
22.5°	5196.5	5201.1	5194.7	5205.7	5297.9	5532.1	6059.4	6206.9	6551.7	5805.0	4298.6
25°	5455.6	5462.9	5420.5	5394.7	5462.0	5653.8	6083.4	6218.9	6727.7	6061.2	4348.4
27.5°	5749.6	5758.9	5707.2	5647.3	5678.7	5804.0	6177.4	6299.1	6859.6	6313.8	4379.8
30°	6110.1	6113.8	6027.1	5955.2	5934.9	6028.0	6337.8	6451.2	7023.7	6611.6	4426.8
32.5°	6478.8	6506.5	6394.9	6293.5	6259.4	6288.0	6574.7	6684.4	7219.1	6931.5	4502.4
35°	6980.3	6984.9	6851.3	6727.7	6615.3	6652.1	6878.0	6957.3	7489.2	7301.1	4609.3
37.5°	7606.3	7648.7	7464.3	7233.8	7095.6	7042.1	7244.9	7331.6	7868.1	7754.7	4770.6
40°	8301.4	8317.0	8159.4	8015.6	7763.0	7608.1	7748.2	7842.3	8335.5	8295.8	4957.8
42.5°	8738.3	8772.4	8784.4	8769.7	8579.8	8319.8	8373.3	8417.5	8888.6	8803.8	5149.5
45°	8885.8	8936.5	9108.0	9471.2	9491.5	9235.2	9110.7	9153.2	9491.5	9316.3	5333.0
47.5°	8641.5	8728.2	9044.4	9789.2	10347.0	10366.3	9991.1	9898.0	10040.9	9741.3	5465.7
50°	8010.0	8028.5	8512.5	9591.0	10748.0	11447.7	11059.6	10886.3	10562.7	10055.7	5557.0
52.5°	7032.9	7054.1	7459.7	8670.1	10500.9	12203.6	12309.6	11999.9	11092.7	10299.9	5616.9
55°	5220.5	5343.1	5789.3	6959.1	9330.2	12132.6	13303.4	13127.3	11733.4	10493.5	5710.9
57.5°	3209.9	3097.5	3626.6	4734.7	7017.2	11157.3	13610.4	13667.5	12438.7	10655.8	5868.6
60°	1476.8	1498.9	1717.4	2442.0	4277.4	8728.2	12819.4	13180.8	12828.6	10650.3	5908.2
62.5°	1017.7	997.5	942.1	1072.1	1950.7	5520.1	10828.2	11440.3	12046.9	10319.3	5750.6
65°	909.9	889.6	782.7	746.7	896.0	2406.1	7871.8	8644.3	10143.2	9484.1	5357.9
67.5°	850.0	822.3	711.7	641.6	639.8	957.8	4641.6	5571.7	7523.3	8018.3	4642.5
70°	787.3	765.1	655.4	578.0	544.8	602.0	2040.1	2670.6	4884.9	5778.2	3616.5
72.5°	724.6	698.8	600.1	517.2	473.8	450.8	781.7	1016.8	2760.1	3464.4	2217.1
75°	633.3	620.4	536.5	468.3	421.3	364.1	496.0	566.0	1320.1	1591.1	1112.7
77.5°	554.0	540.2	476.6	409.3	375.2	295.9	352.2	384.4	556.8	645.3	502.4
80°	405.6	419.4	401.9	361.4	334.6	232.3	236.9	263.7	330.9	366.0	307.0
82.5°	257.2	283.0	309.7	278.4	253.5	183.5	164.1	174.2	225.9	239.7	136.4
85°	107.9	109.7	179.8	169.6	144.7	108.8	98.6	104.2	120.8	126.3	63.6
87.5°	41.5	40.6	63.6	59.0	45.2	31.3	31.3	35.0	47.9	44.2	20.3
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°	3538.1	3538.1	3538.1	3538.1	3538.1	3538.1	3538.1	3538.1	3538.1	3538.1	3538.1
2.5°	3550.1	3484.6	3354.7	3193.3	3075.3	2942.6	2825.5	2741.6	2710.3	2695.5	2667.9
5°	3547.3	3418.3	3149.1	2867.0	2640.2	2407.9	2211.5	2084.3	2073.3	1988.5	1980.2
7.5°	3548.2	3351.0	2922.3	2507.5	2161.8	1923.9	1761.7	1719.3	1668.6	1655.7	1662.1
10°	3551.0	3265.2	2678.9	2151.6	1817.0	1661.2	1600.4	1583.8	1585.6	1591.1	1592.1
12.5°	3554.7	3182.3	2426.3	1881.5	1623.4	1558.9	1552.4	1567.2	1582.8	1594.8	1597.6
15°	3559.3	3087.3	2180.2	1664.0	1526.6	1521.1	1542.3	1567.2	1589.3	1606.8	1609.6
17.5°	3553.8	2976.7	1973.7	1530.3	1473.1	1499.9	1534.9	1566.2	1586.5	1603.1	1605.0
20°	3540.9	2853.2	1774.6	1436.3	1439.9	1483.3	1521.1	1550.6	1572.7	1581.0	1587.4
22.5°	3491.1	2705.7	1601.3	1363.4	1400.3	1460.2	1505.4	1522.9	1498.0	1480.5	1485.1
25°	3406.3	2513.9	1439.9	1304.4	1364.4	1428.0	1474.1	1431.6	1411.4	1404.0	1407.7
27.5°	3300.3	2303.7	1318.3	1242.7	1318.3	1392.0	1379.1	1371.7	1362.5	1350.5	1353.3
30°	3186.0	2098.2	1215.0	1194.7	1268.5	1310.9	1316.4	1328.4	1318.3	1299.8	1307.2
32.5°	3079.9	1904.6	1136.7	1154.2	1233.4	1227.0	1268.5	1282.3	1235.3	1173.5	1176.3
35°	2989.6	1724.8	1077.7	1114.5	1173.5	1176.3	1217.8	1169.8	1119.1	1089.6	1091.5
37.5°	2921.4	1584.7	1038.9	1080.4	1097.0	1132.0	1109.9	1085.0	1078.6	1058.3	1059.2
40°	2880.8	1462.1	1014.0	1053.7	1050.9	1074.9	1003.9	1028.8	1038.0	1031.6	1032.5
42.5°	2840.3	1375.4	988.2	1016.8	1015.9	968.9	953.2	974.4	998.4	1001.1	999.3
45°	2808.0	1308.1	961.5	960.6	979.0	905.3	900.7	913.6	947.7	964.3	963.3
47.5°	2772.0	1251.9	920.9	895.1	900.7	865.6	858.3	863.8	905.3	932.0	939.4
50°	2726.9	1195.7	870.2	835.2	812.2	828.8	830.6	831.5	873.0	903.4	909.9
52.5°	2690.9	1153.2	812.2	786.3	758.7	795.6	809.4	811.2	836.1	861.0	865.6
55°	2712.1	1129.3	755.0	736.6	711.7	761.5	788.2	791.9	797.4	815.8	818.6
57.5°	2775.7	1134.8	708.9	684.9	666.5	720.9	766.1	768.8	765.1	787.3	791.0
60°	2795.1	1132.0	674.8	627.8	616.7	677.6	733.8	739.3	738.4	770.7	777.1
62.5°	2714.0	1097.0	640.7	579.9	572.5	633.3	688.6	710.8	715.4	761.5	769.8
65°	2523.1	1025.1	595.5	529.1	529.1	586.3	645.3	675.7	688.6	750.4	759.6
67.5°	2271.5	940.3	549.4	485.8	484.0	541.1	599.2	630.6	650.8	734.7	740.3
70°	1885.2	826.0	492.3	438.8	438.8	490.4	543.0	580.8	610.3	705.2	705.2
72.5°	1291.5	686.8	423.1	385.3	386.3	434.2	487.7	530.1	565.1	646.2	648.1
75°	816.8	536.5	347.5	328.2	331.9	377.0	432.4	476.6	546.7	638.8	641.6
77.5°	434.2	377.0	276.6	271.9	276.6	318.0	379.8	440.6	548.5	554.0	544.8
80°	281.2	267.3	218.5	209.3	211.1	256.3	338.3	418.5	440.6	446.2	425.9
82.5°	153.0	169.6	154.9	145.7	145.7	200.0	288.5	332.8	316.2	262.7	250.7
85°	65.5	79.3	80.2	70.1	67.3	123.5	193.6	181.6	168.7	161.3	159.5
87.5°	18.4	25.8	25.8	19.4	14.7	34.1	38.7	11.1	0.0	0.9	1.8
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)