

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: P529983

Luminaire Tested: **GALN-SA5A-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529983
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-830-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12036 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 154
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

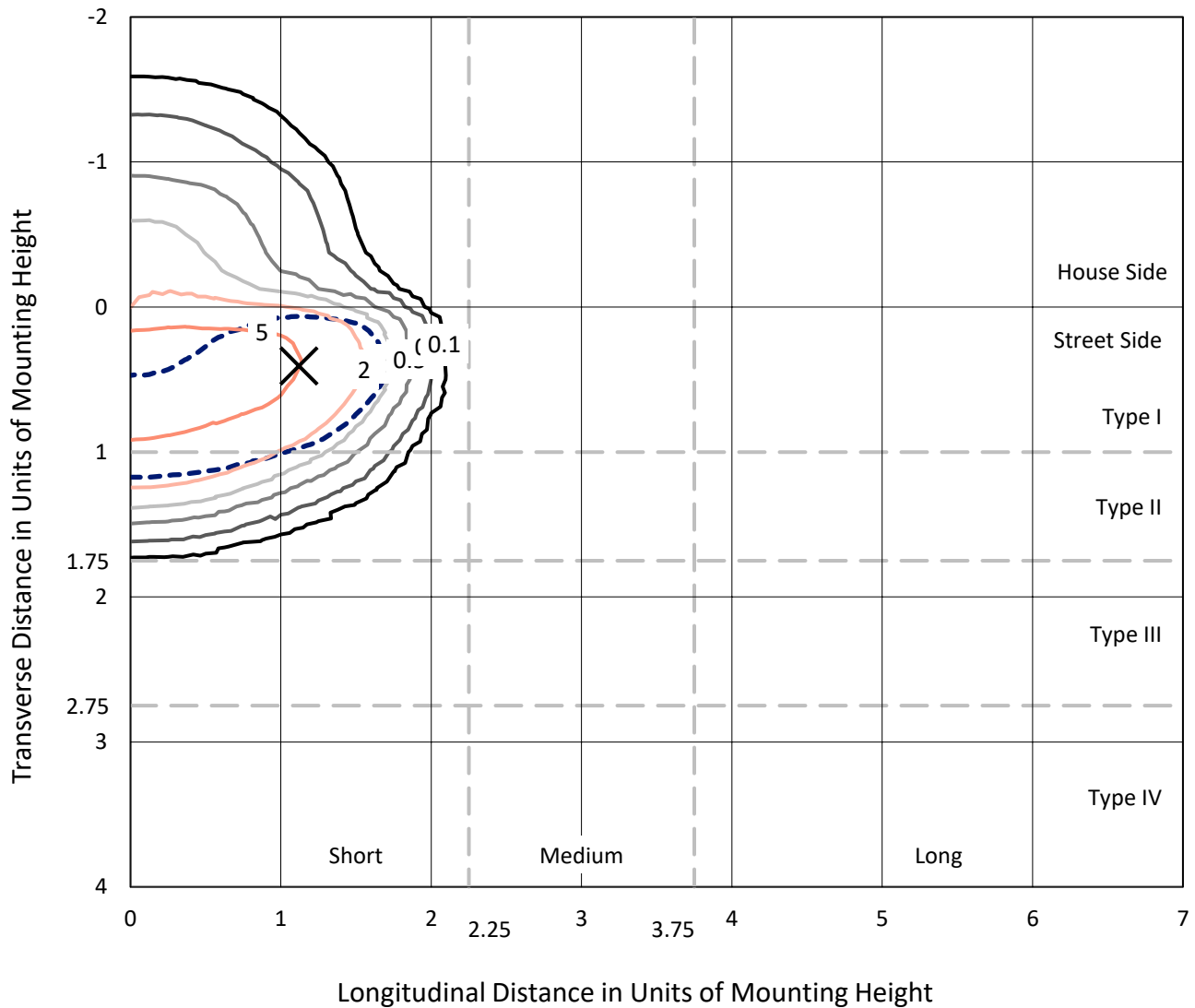


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

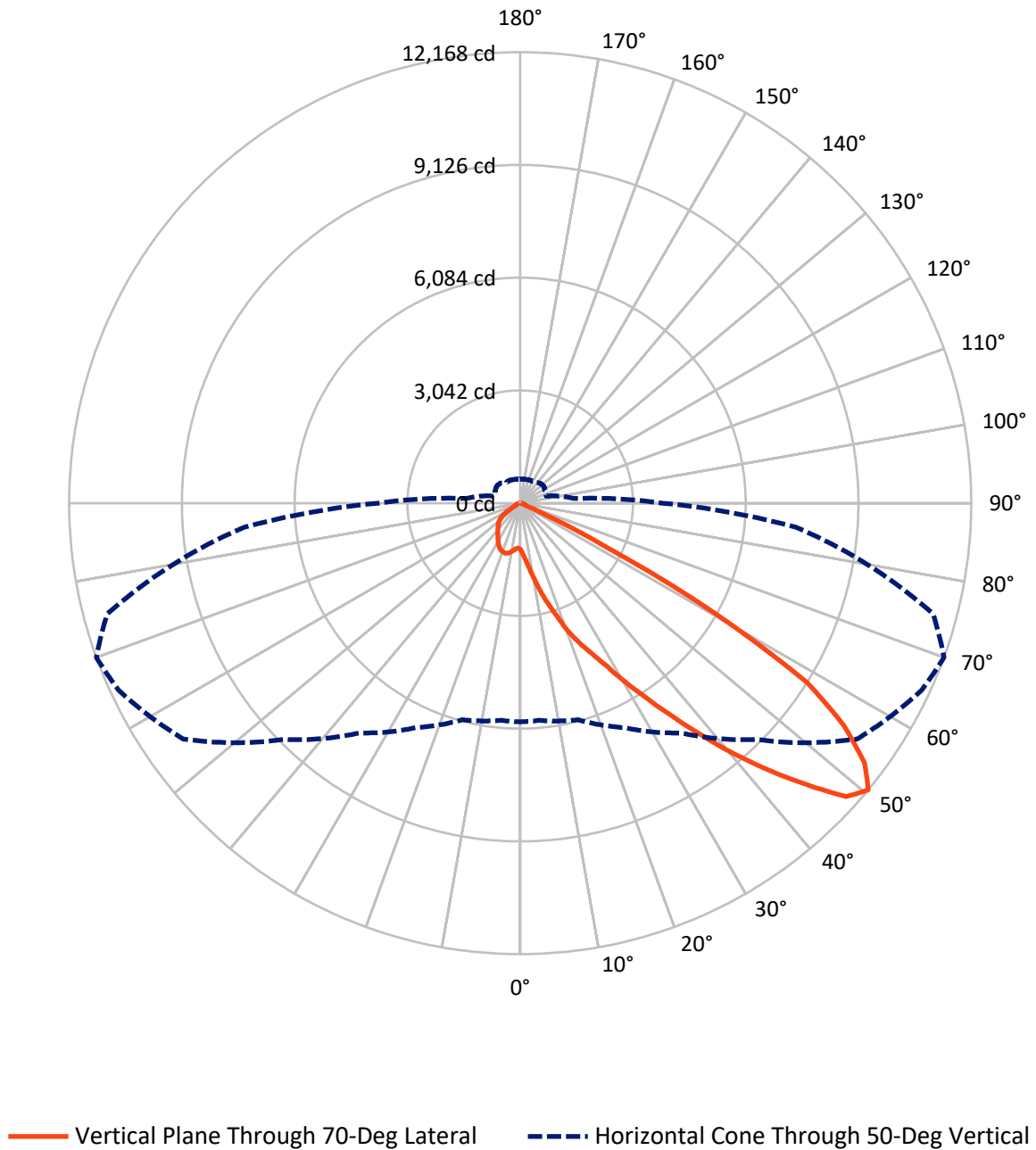


Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1680.9	0.0	1680.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	10355.1	0.0	10355.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	12036.0	0.0	12036.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.1	1.3
10°-20°	701.3	5.8
20°-30°	1471.1	12.2
30°-40°	2535.7	21.1
40°-50°	3705.9	30.8
50°-60°	2886.3	24.0
60°-70°	489.0	4.1
70°-80°	67.2	0.6
80°-90°	17.4	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°	12036.0	100.0
0°-180°	12036.0	100.0

Coefficient of Utilization



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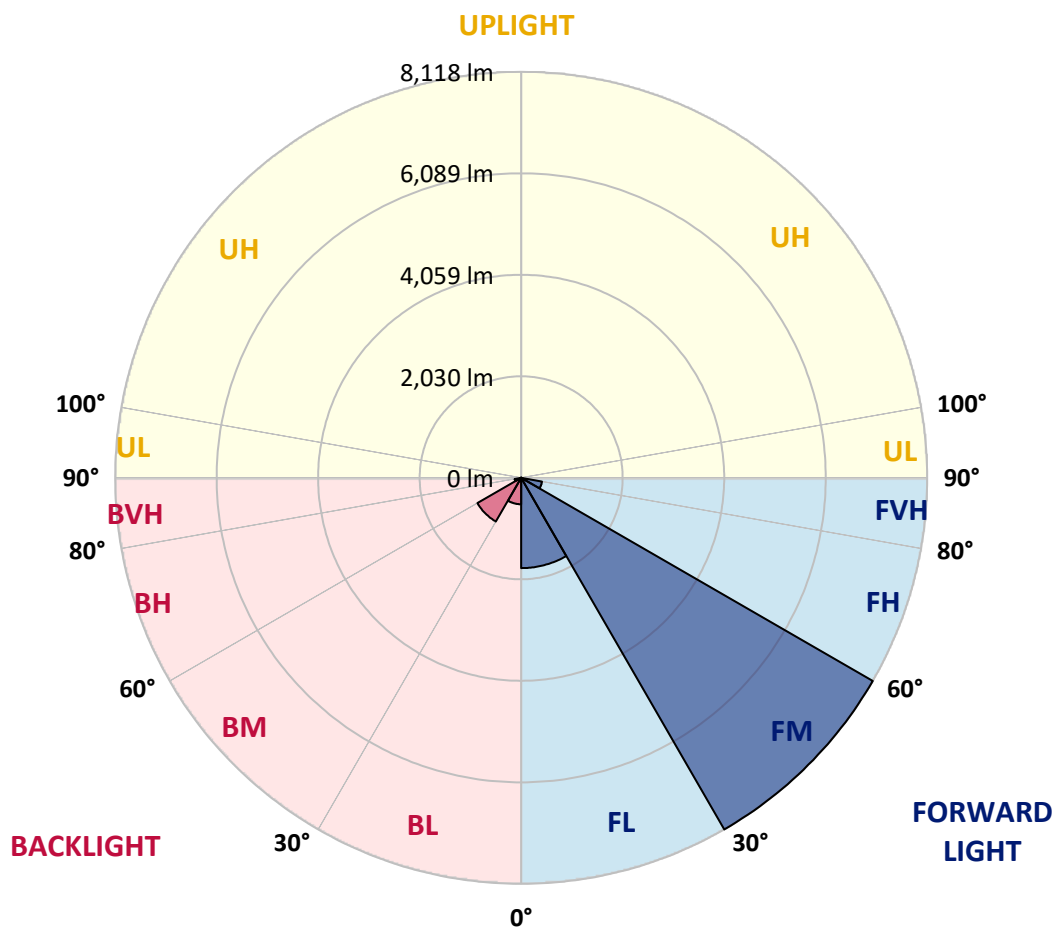
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1805.5	15.0			
FM	(30°-60°)	8118.1	67.4			
FH	(60°-80°)	423.4	3.5			G0/660
FVH	(80°-90°)	8.1	0.1			G0/10
BL	(0°-30°)	528.9	4.4	B2/1000		
BM	(30°-60°)	1009.8	8.4	B2/2500		
BH	(60°-80°)	132.8	1.1	B1/500		G1/500
BVH	(80°-90°)	9.4	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1246.7	1246.7	1246.7	1246.7	1246.7	1246.7	1246.7	1246.7	1246.7	1246.7	1246.7
2.5°	1632.6	1620.7	1595.0	1547.5	1527.7	1480.2	1452.5	1399.1	1365.4	1327.8	1286.3
5°	2299.5	2238.1	2200.5	2147.1	1990.8	1893.8	1733.5	1597.0	1533.6	1464.4	1369.4
7.5°	2988.1	2948.5	2897.1	2782.3	2675.4	2473.6	2198.5	1897.7	1769.1	1650.4	1462.4
10°	3558.0	3447.2	3441.3	3356.2	3239.4	2998.0	2667.5	2293.5	2064.0	1889.8	1595.0
12.5°	3955.8	3854.9	3900.4	3890.5	3781.6	3560.0	3178.1	2683.4	2443.9	2172.8	1731.5
15°	4317.9	4276.4	4262.5	4250.6	4207.1	4042.8	3700.5	3158.3	2812.0	2485.5	1885.9
17.5°	4672.1	4565.3	4616.7	4626.6	4622.7	4474.2	4153.7	3609.5	3201.8	2815.9	2048.1
20°	4986.8	4996.7	4927.4	4913.6	4901.7	4895.7	4583.1	4056.7	3680.7	3162.2	2259.9
22.5°	5390.5	5321.2	5382.5	5343.0	5265.8	5218.3	4978.9	4452.5	4096.3	3579.8	2475.6
25°	5867.4	5922.8	5778.3	5762.5	5677.4	5513.2	5297.5	4895.7	4496.0	3967.6	2709.1
27.5°	6455.1	6358.1	6320.5	6233.5	6079.1	6009.8	5756.6	5352.9	4978.9	4375.3	2934.7
30°	6959.7	6934.0	6746.0	6643.1	6508.5	6506.5	6152.3	5972.3	5608.1	5014.5	3245.4
32.5°	7371.3	7258.5	7189.3	7118.0	7009.2	7038.9	6740.1	6645.1	6279.0	5608.1	3611.5
35°	7646.4	7565.2	7523.7	7414.9	7383.2	7515.8	7391.1	7351.5	7050.7	6443.2	4040.9
37.5°	7733.5	7759.2	7751.3	7614.7	7682.0	8040.2	8200.5	8097.6	7939.3	7323.8	4505.9
40°	7810.6	7828.4	7788.9	7949.1	8141.1	8548.7	9128.6	8958.4	8899.0	8216.3	5153.0
42.5°	7854.2	7840.3	7840.3	8117.4	8408.2	9227.5	10025.0	9912.2	9866.7	9166.2	5901.0
45°	7666.2	7531.6	7676.1	8052.1	8637.8	9561.9	10741.3	10897.7	10832.4	10296.1	6775.7
47.5°	6963.7	7046.8	7127.9	7630.6	8358.8	9459.0	11180.7	11713.0	11833.7	11246.0	7349.5
50°	5901.0	5883.2	6051.4	6684.6	7569.2	9015.8	11095.6	11948.5	12168.1	11530.9	7470.3
52.5°	4292.2	4422.8	4604.8	5234.1	6282.9	7868.0	9997.3	11340.9	11633.8	11180.7	7391.1
55°	2499.3	2354.9	2764.5	3296.8	4286.2	5934.7	8451.8	10052.7	10594.9	10543.5	6991.4
57.5°	1001.3	969.6	1110.2	1496.0	2236.1	3678.7	6146.4	8259.8	9128.6	9656.9	6144.4
60°	439.3	429.4	504.6	609.5	914.2	1695.9	3362.1	5137.2	6043.5	6748.0	4228.9
62.5°	316.6	312.7	350.3	387.9	482.8	738.1	1412.9	2069.9	2580.5	3116.7	1893.8
65°	255.3	265.2	290.9	310.7	356.2	409.6	498.7	575.9	706.5	732.2	417.5
67.5°	207.8	215.7	239.4	261.2	269.1	221.6	229.5	201.8	201.8	180.1	144.5
70°	152.4	154.4	182.1	207.8	166.2	89.0	156.3	156.3	140.5	134.6	122.7
72.5°	112.8	114.8	136.5	128.6	65.3	55.4	114.8	126.6	114.8	108.8	98.9
75°	83.1	85.1	71.2	29.7	27.7	35.6	67.3	87.1	83.1	81.1	75.2
77.5°	15.8	11.9	9.9	13.9	19.8	29.7	43.5	53.4	55.4	59.4	55.4
80°	2.0	2.0	5.9	11.9	21.8	31.7	45.5	51.5	53.4	55.4	51.5
82.5°	0.0	2.0	5.9	11.9	21.8	29.7	39.6	45.5	49.5	51.5	49.5
85°	0.0	2.0	4.0	9.9	17.8	21.8	19.8	13.9	11.9	13.9	9.9
87.5°	0.0	0.0	2.0	2.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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°	1246.7	1246.7	1246.7	1246.7	1246.7	1246.7	1246.7	1246.7	1246.7	1246.7	1246.7
2.5°	1262.5	1254.6	1226.9	1197.2	1171.5	1183.4	1171.5	1161.6	1165.6	1161.6	1157.6
5°	1331.8	1296.2	1236.8	1211.1	1189.3	1187.3	1181.4	1179.4	1181.4	1181.4	1163.6
7.5°	1397.1	1339.7	1276.4	1248.7	1222.9	1224.9	1211.1	1211.1	1209.1	1199.2	1195.2
10°	1496.0	1418.9	1337.7	1288.2	1256.6	1250.7	1236.8	1222.9	1222.9	1222.9	1203.2
12.5°	1604.9	1507.9	1397.1	1339.7	1302.1	1272.4	1250.7	1246.7	1224.9	1221.0	1211.1
15°	1699.9	1577.2	1436.7	1357.5	1310.0	1270.4	1236.8	1215.0	1205.1	1199.2	1191.3
17.5°	1792.9	1636.5	1458.4	1357.5	1306.1	1260.5	1224.9	1205.1	1181.4	1185.3	1169.5
20°	1917.5	1699.9	1464.4	1331.8	1268.5	1224.9	1177.4	1167.5	1153.7	1141.8	1145.8
22.5°	2038.2	1745.4	1446.6	1300.1	1209.1	1157.6	1133.9	1122.0	1116.1	1106.2	1092.3
25°	2147.1	1794.8	1418.9	1242.7	1145.8	1108.2	1086.4	1084.4	1070.6	1070.6	1044.8
27.5°	2257.9	1812.7	1371.4	1175.5	1090.4	1068.6	1058.7	1054.7	1048.8	1035.0	1017.1
30°	2384.5	1818.6	1302.1	1106.2	1040.9	1017.1	1031.0	1040.9	1015.2	989.4	997.4
32.5°	2489.4	1804.7	1219.0	1040.9	1005.3	993.4	1021.1	1031.0	1001.3	973.6	959.8
35°	2616.1	1771.1	1137.9	989.4	969.6	993.4	1017.1	1017.1	957.8	924.1	916.2
37.5°	2808.0	1733.5	1062.7	945.9	932.1	981.5	1013.2	991.4	898.4	856.9	847.0
40°	3013.8	1709.7	989.4	902.4	912.3	961.7	979.5	912.3	817.3	791.6	783.6
42.5°	3312.6	1662.3	924.1	864.8	894.5	934.0	934.0	813.3	777.7	763.8	761.9
45°	3684.7	1628.6	866.7	833.1	868.7	878.6	847.0	761.9	736.1	732.2	734.2
47.5°	3866.7	1563.3	807.4	795.5	821.2	823.2	740.1	720.3	698.5	692.6	688.6
50°	3839.0	1446.6	730.2	746.0	781.7	761.9	674.8	678.8	659.0	657.0	647.1
52.5°	3645.1	1262.5	653.0	690.6	730.2	672.8	621.4	617.4	617.4	591.7	581.8
55°	3231.5	1017.1	560.0	607.5	655.0	566.0	552.1	548.1	538.3	514.5	508.6
57.5°	2558.7	746.0	421.5	473.0	556.1	480.9	478.9	461.1	435.4	417.5	417.5
60°	1521.8	429.4	265.2	288.9	368.1	389.8	433.4	425.5	381.9	354.2	346.3
62.5°	694.6	221.6	168.2	172.2	197.9	253.3	340.4	393.8	332.5	285.0	281.0
65°	233.5	164.2	138.5	132.6	136.5	152.4	203.8	279.0	265.2	219.7	211.7
67.5°	142.5	146.4	130.6	120.7	120.7	118.7	116.8	126.6	156.3	152.4	154.4
70°	122.7	134.6	120.7	108.8	104.9	98.9	83.1	69.3	59.4	69.3	73.2
72.5°	98.9	106.9	102.9	93.0	83.1	75.2	59.4	45.5	33.6	29.7	29.7
75°	73.2	79.2	83.1	71.2	63.3	53.4	43.5	29.7	17.8	11.9	11.9
77.5°	53.4	59.4	61.3	55.4	47.5	37.6	27.7	19.8	9.9	4.0	4.0
80°	45.5	53.4	59.4	55.4	49.5	35.6	25.7	13.9	7.9	2.0	2.0
82.5°	43.5	53.4	59.4	53.4	47.5	33.6	25.7	15.8	5.9	2.0	2.0
85°	9.9	13.9	17.8	21.8	25.7	25.7	19.8	11.9	5.9	2.0	2.0
87.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	2.0	2.0	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)