

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: P450375

Luminaire Tested: **GALN-SA1A-830-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450375
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3599 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 33
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

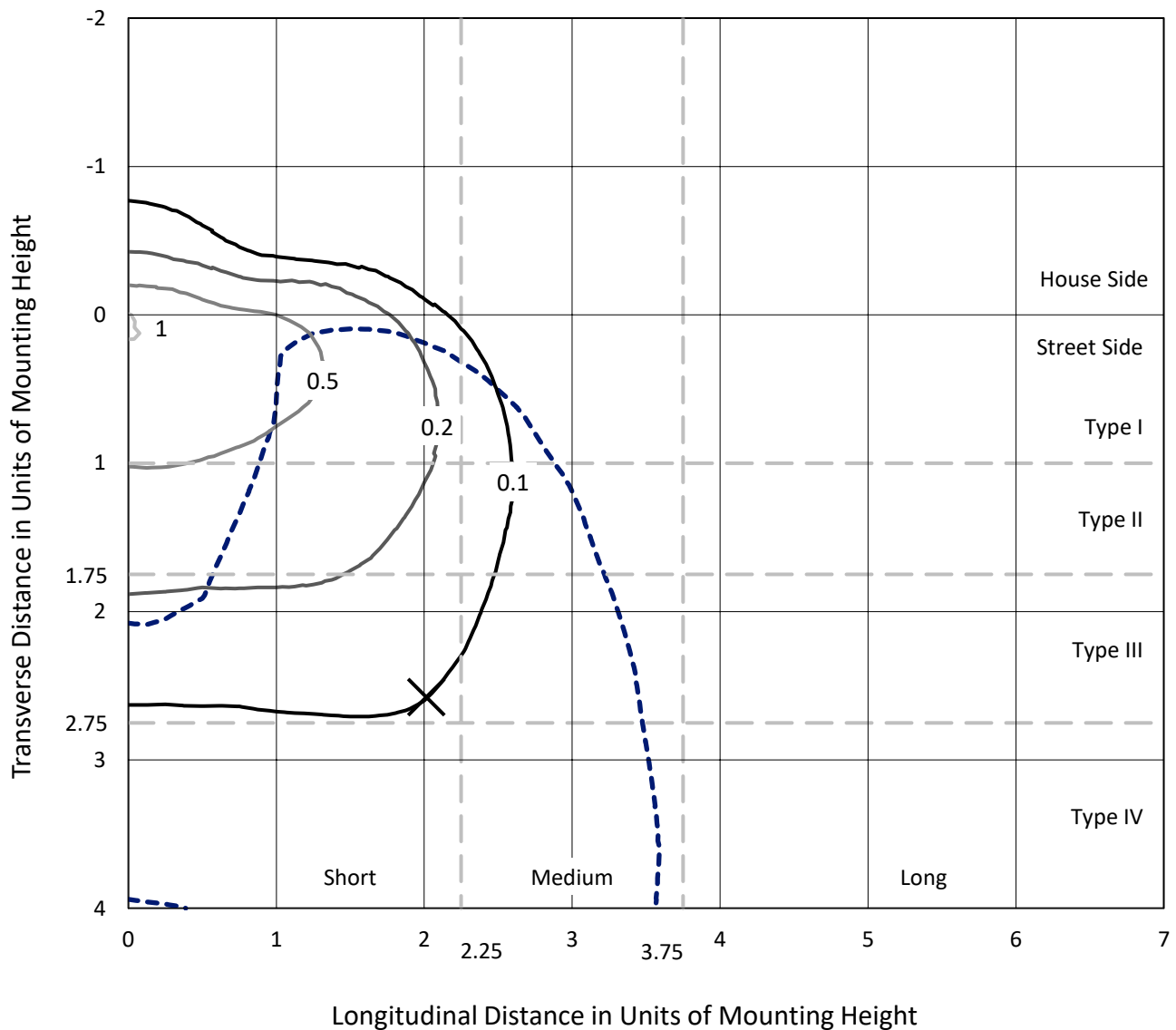


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

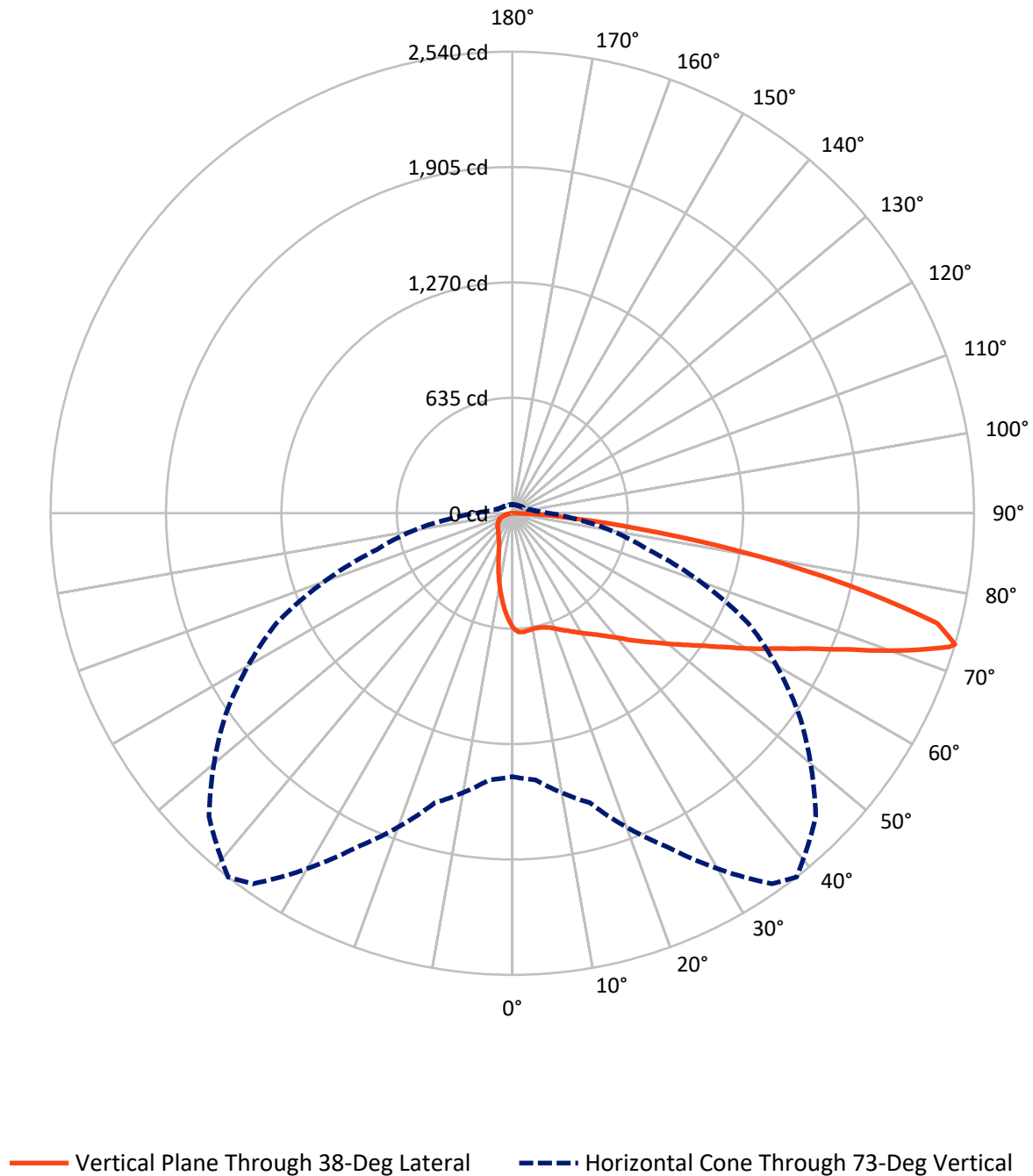


Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	483.8	0.0	483.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	3115.2	0.0	3115.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	3599.0	0.0	3599.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.2	1.5
10°-20°	141.5	3.9
20°-30°	220.4	6.1
30°-40°	323.3	9.0
40°-50°	479.5	13.3
50°-60°	679.4	18.9
60°-70°	861.8	23.9
70°-80°	717.4	19.9
80°-90°	120.5	3.3
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°	3599.0	100.0
0°-180°	3599.0	100.0

Coefficient of Utilization



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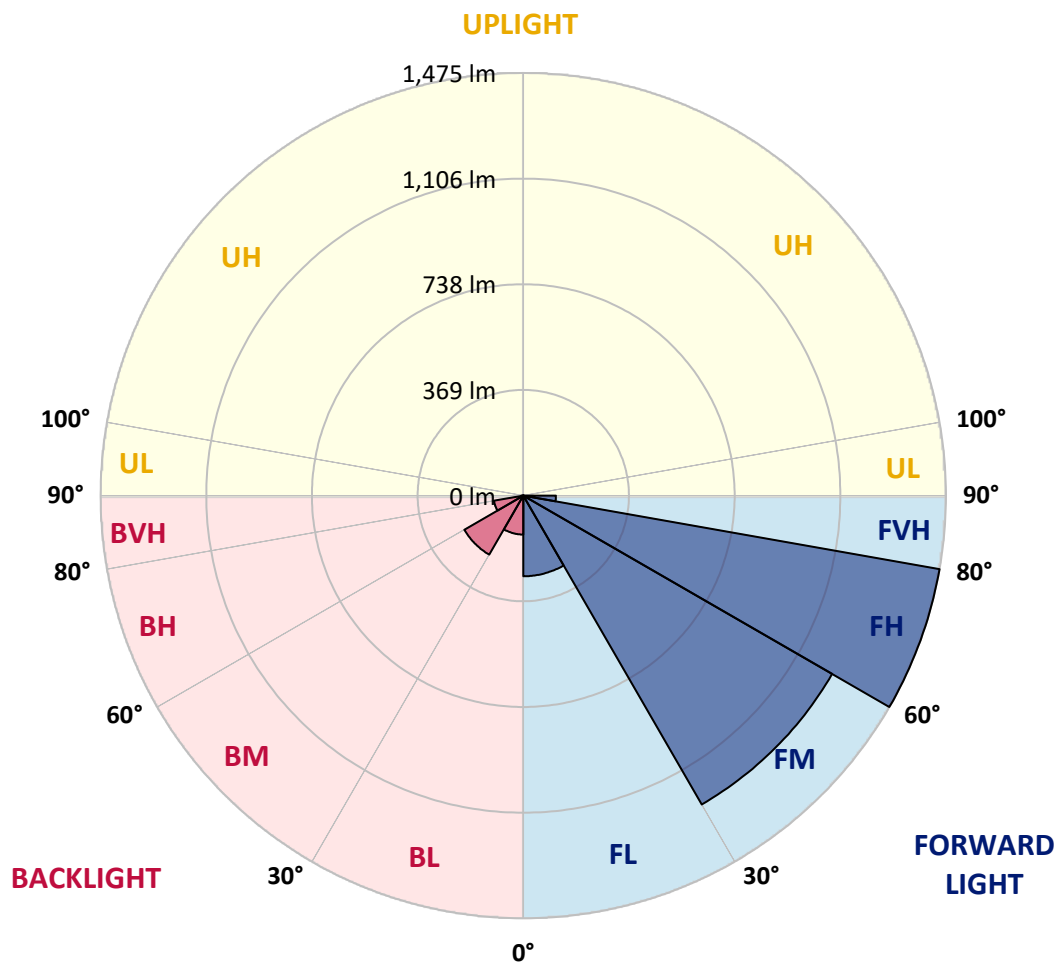
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	281.3	7.8			
FM	(30°-60°)	1244.6	34.6			
FH	(60°-80°)	1475.2	41.0			G1/1800
FVH	(80°-90°)	114.0	3.2			G2/225
BL	(0°-30°)	135.8	3.8	B1/500		
BM	(30°-60°)	237.5	6.6	B1/1000		
BH	(60°-80°)	104.0	2.9	B0/110		G0/110
BVH	(80°-90°)	6.5	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	632.3	632.3	632.3	632.3	632.3	632.3	632.3	632.3	632.3	632.3	632.3
2.5°	657.7	660.9	659.3	657.1	655.7	654.2	652.2	646.3	641.6	636.6	628.6
5°	662.6	664.6	663.2	660.3	657.1	655.7	651.8	644.1	636.6	628.0	616.2
7.5°	659.7	660.5	658.9	655.5	652.6	650.0	645.5	637.0	627.8	617.4	602.0
10°	649.6	652.6	652.6	649.8	646.9	645.5	641.0	632.9	624.6	612.8	594.5
12.5°	641.2	644.5	647.1	646.3	646.1	646.1	642.6	636.6	626.8	615.6	593.9
15°	635.5	639.4	645.1	648.3	650.4	651.0	649.6	644.3	634.3	621.3	596.3
17.5°	634.3	639.0	649.4	656.5	661.8	661.6	661.1	653.8	642.9	629.4	599.4
20°	639.8	645.9	660.3	671.5	679.2	677.8	675.6	666.0	653.2	638.2	602.2
22.5°	656.3	662.6	678.4	690.6	698.1	698.1	691.4	678.8	665.2	648.3	606.1
25°	679.8	686.8	703.6	716.0	719.5	716.8	710.1	694.9	679.2	663.0	614.2
27.5°	708.7	717.0	732.7	743.0	742.0	740.0	733.1	713.6	697.9	683.1	628.0
30°	744.7	750.8	767.0	769.5	765.8	765.4	755.7	736.1	721.5	710.1	647.7
32.5°	778.6	784.1	797.1	798.1	791.6	792.4	783.3	765.4	757.1	753.0	680.9
35°	814.6	817.4	828.6	827.4	823.1	822.5	818.9	801.8	804.4	811.7	727.8
37.5°	844.7	850.4	856.7	857.7	857.5	859.5	861.9	853.8	869.1	892.0	789.4
40°	872.3	877.2	886.5	889.8	897.7	901.8	910.1	910.3	945.5	983.3	865.2
42.5°	891.0	899.3	916.8	922.7	942.0	954.2	966.6	979.8	1030.8	1079.4	954.6
45°	907.3	918.2	947.3	965.6	991.8	1006.7	1032.9	1060.5	1133.9	1197.5	1045.5
47.5°	931.9	941.6	974.9	1007.3	1046.9	1064.0	1103.2	1144.5	1240.4	1310.1	1132.5
50°	966.0	971.9	1005.8	1058.5	1109.1	1131.0	1182.9	1242.4	1354.2	1421.3	1208.9
52.5°	1009.7	1012.1	1039.2	1109.3	1176.0	1203.2	1271.9	1341.4	1453.8	1517.8	1269.4
55°	1061.3	1057.3	1078.4	1163.1	1252.4	1287.9	1361.7	1441.6	1565.8	1595.8	1313.5
57.5°	1112.3	1106.0	1122.9	1228.6	1346.7	1389.6	1475.5	1544.8	1665.8	1668.8	1344.4
60°	1166.4	1161.7	1181.8	1305.4	1462.3	1513.1	1592.6	1651.9	1762.5	1719.6	1349.3
62.5°	1221.9	1214.4	1243.0	1391.8	1592.6	1638.7	1715.8	1765.8	1857.4	1738.5	1302.4
65°	1275.7	1272.3	1316.6	1494.4	1741.0	1793.4	1868.2	1902.1	1933.4	1710.1	1185.9
67.5°	1333.1	1340.0	1410.7	1631.4	1934.4	2000.3	2081.0	2049.1	1955.2	1575.3	998.7
70°	1420.5	1424.9	1534.3	1810.9	2183.8	2263.3	2302.3	2101.3	1850.3	1319.4	750.8
72.5°	1458.1	1477.8	1644.6	1999.3	2467.1	2515.7	2376.7	1984.9	1541.4	896.3	394.5
73°	1449.7	1473.3	1649.7	2027.9	2489.3	2540.3	2360.8	1924.9	1432.9	771.9	338.2
75°	1345.9	1374.9	1583.7	2004.0	2446.2	2415.7	2106.0	1640.6	968.2	351.0	154.1
77.5°	1061.9	1070.3	1254.8	1618.2	1926.3	1869.8	1576.1	1025.4	395.5	130.5	87.4
80°	532.7	563.4	707.3	927.0	1288.1	1269.6	994.9	484.9	164.8	76.6	57.9
82.5°	256.3	278.0	344.5	452.0	711.8	694.9	492.7	265.0	104.7	44.7	34.1
85°	165.0	181.3	219.3	215.6	292.7	279.5	221.3	200.6	62.0	23.4	23.8
87.5°	108.9	119.3	143.1	114.4	106.5	96.3	97.8	113.0	12.2	8.9	3.3
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°	632.3	632.3	632.3	632.3	632.3	632.3	632.3	632.3	632.3	632.3	632.3
2.5°	625.4	622.7	614.0	605.5	597.3	589.6	584.5	577.8	573.3	574.6	576.4
5°	609.7	603.8	588.4	573.3	559.1	542.2	528.6	517.7	509.3	506.3	505.7
7.5°	593.3	583.3	561.1	535.3	511.2	490.2	466.0	454.0	440.0	435.1	433.5
10°	583.3	569.9	538.8	502.8	466.4	431.7	405.5	384.1	364.8	361.2	359.3
12.5°	580.5	562.8	520.9	474.6	426.2	383.5	344.7	316.6	298.0	293.7	287.4
15°	578.8	556.9	504.2	446.1	384.7	332.7	291.9	259.1	242.1	230.7	230.9
17.5°	577.4	550.2	485.5	415.0	349.0	289.0	243.9	214.4	198.8	192.7	192.1
20°	575.4	542.2	464.0	382.3	308.1	249.2	208.3	186.4	175.8	170.7	170.5
22.5°	574.6	534.5	442.9	349.0	271.9	218.5	184.7	169.3	162.6	159.1	159.1
25°	576.6	529.0	420.7	317.3	239.8	192.3	168.5	157.9	154.1	152.2	151.6
27.5°	582.9	526.6	398.8	285.6	210.4	174.4	157.5	150.2	147.3	145.9	146.1
30°	594.9	526.4	377.2	254.3	188.4	160.8	148.8	143.7	141.5	140.6	140.4
32.5°	614.2	530.9	356.1	228.4	169.9	149.4	140.6	137.0	136.0	135.4	135.2
35°	646.9	543.5	335.1	204.9	155.7	139.2	132.9	131.1	129.7	130.3	130.5
37.5°	691.0	565.2	315.2	186.4	144.9	131.7	126.4	124.8	124.0	124.6	125.2
40°	750.2	596.5	298.6	171.5	137.2	125.4	120.7	119.3	118.5	119.5	119.7
42.5°	815.4	632.7	284.7	160.0	130.9	120.1	115.6	114.0	113.4	114.0	114.2
45°	882.5	674.8	277.6	151.6	125.6	116.3	111.6	109.8	108.3	107.9	108.5
47.5°	948.5	711.3	277.4	146.5	121.3	112.8	107.7	105.7	103.9	102.8	102.6
50°	1002.4	740.4	282.3	144.3	117.7	108.9	103.9	101.8	99.4	97.4	97.8
52.5°	1043.0	759.3	284.5	143.3	115.6	104.9	99.8	98.0	95.1	92.5	92.5
55°	1069.3	763.8	279.1	142.3	114.0	100.6	95.1	93.5	90.6	88.0	88.0
57.5°	1078.2	750.0	259.3	139.8	112.4	96.9	90.4	89.0	86.8	84.1	83.7
60°	1057.5	703.2	224.8	132.5	109.1	93.1	85.4	84.8	83.9	81.7	81.5
62.5°	977.6	604.0	187.2	123.0	103.7	89.0	80.7	81.7	82.3	81.1	80.9
65°	844.7	490.4	160.0	109.8	96.3	83.3	75.6	78.2	79.9	79.9	79.5
67.5°	685.1	376.6	134.7	98.4	87.2	75.6	69.9	71.9	73.2	72.8	73.8
70°	487.0	255.1	109.8	85.4	75.6	66.9	62.6	62.6	61.8	61.4	61.4
72.5°	236.2	145.7	89.0	71.3	64.4	57.1	53.7	52.2	50.6	50.4	49.4
73°	197.3	130.7	85.0	68.7	61.8	55.7	51.8	49.6	48.6	47.8	47.6
75°	120.1	99.2	70.9	57.9	52.6	48.0	44.5	42.5	41.5	40.9	40.6
77.5°	79.1	74.0	55.1	44.3	40.2	37.4	36.0	33.9	33.3	32.5	32.5
80°	58.9	56.5	39.4	31.3	28.9	26.4	26.0	25.6	24.0	23.0	22.6
82.5°	38.0	40.2	26.8	20.9	18.3	16.3	16.5	17.1	15.4	14.0	13.6
85°	27.0	29.1	16.3	9.6	7.7	6.7	7.5	6.7	6.9	5.5	4.5
87.5°	4.5	7.7	2.8	1.2	0.6	0.4	0.0	0.0	0.0	0.0	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)