

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: P192989

Luminaire Tested: **GLEON-AF-01-LED-E1-SL4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192989
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-SL4-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5727.4 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 59
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: 25 FT



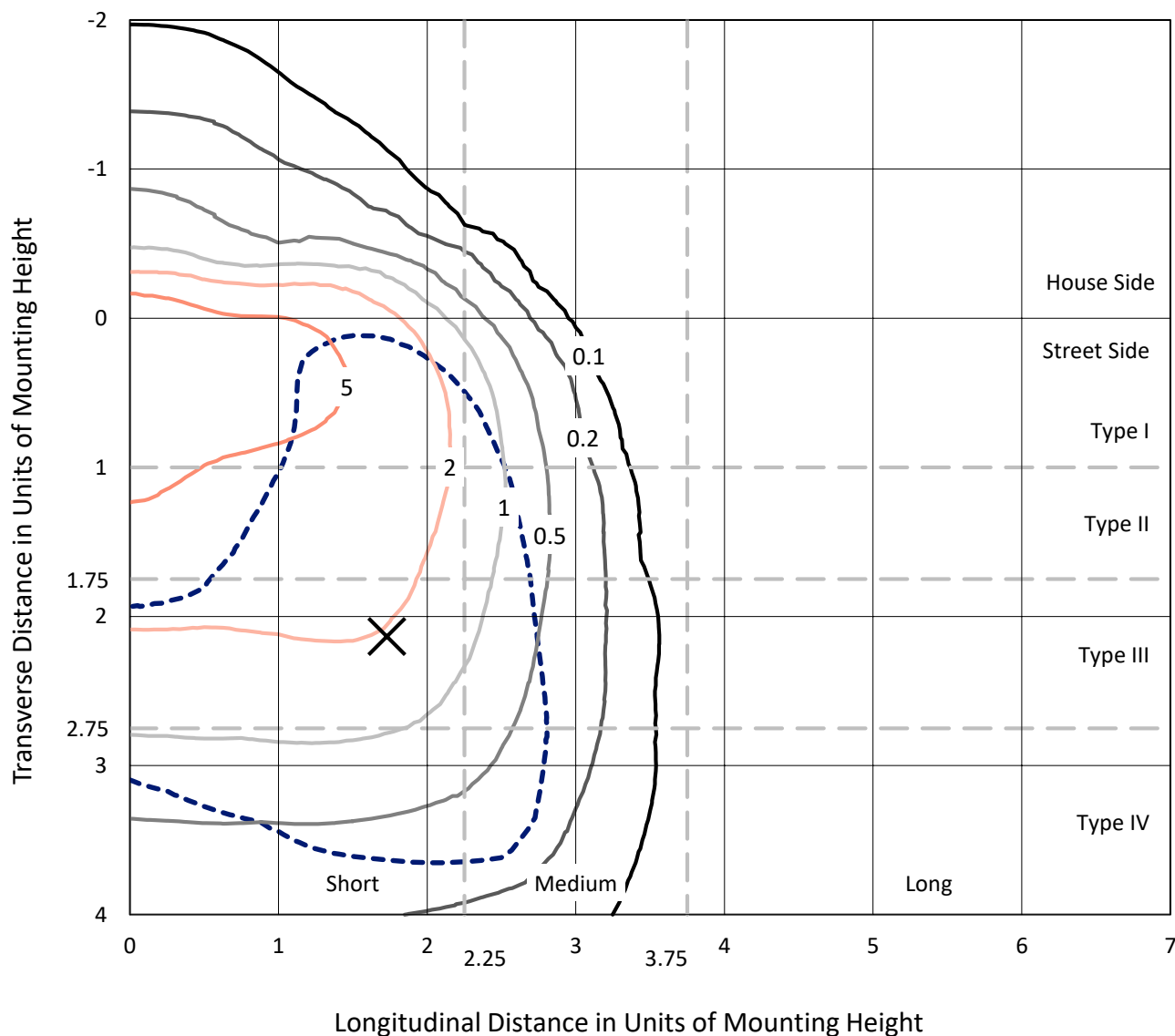
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

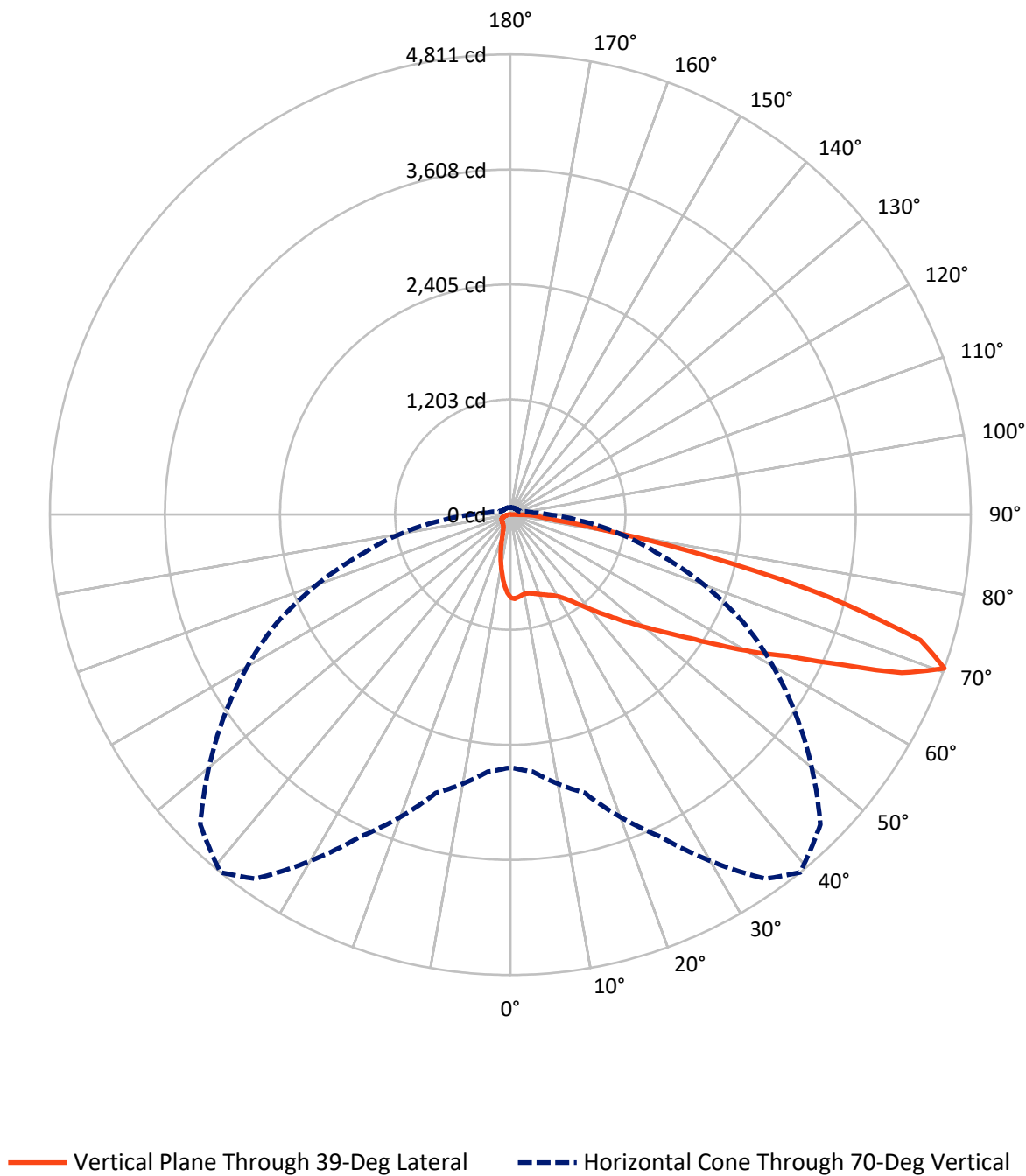


Based on 10 foot mounting height. Maximum calculated value = 8.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	651.4	0.0	651.4
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	5076.0	0.0	5076.0
	% Fixture	88.6	0.0	88.6
Total	Lumens	5727.4	0.0	5727.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.6	1.3
10°-20°	186.5	3.3
20°-30°	290.4	5.1
30°-40°	452.4	7.9
40°-50°	759.5	13.3
50°-60°	1206.6	21.1
60°-70°	1609.5	28.1
70°-80°	971.9	17.0
80°-90°	175.9	3.1
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°	5727.4	100.0
0°-180°	5727.4	100.0

Coefficient of Utilization



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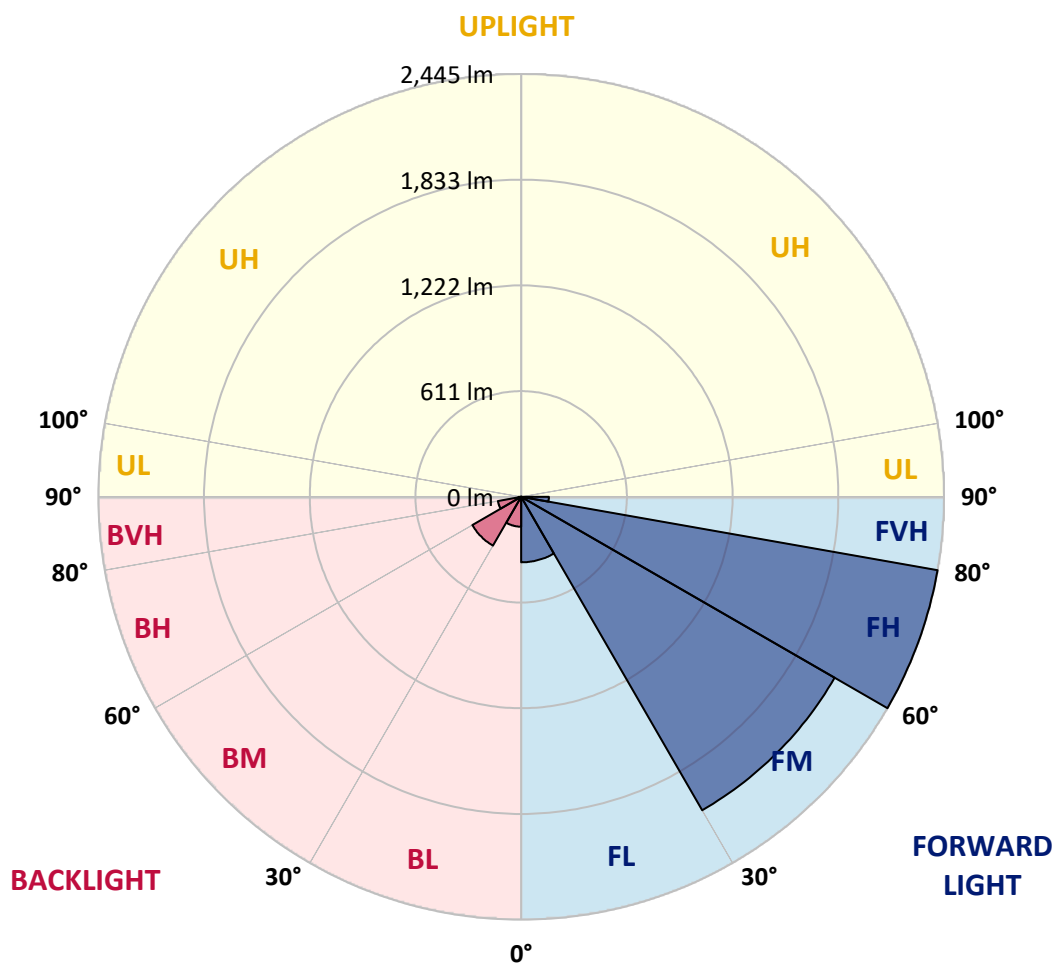
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	378.8	6.6			
FM	(30°-60°)	2092.6	36.5			
FH	(60°-80°)	2444.6	42.7			G2/5000
FVH	(80°-90°)	160.0	2.8			G2/225
BL	(0°-30°)	172.8	3.0	B1/500		
BM	(30°-60°)	326.0	5.7	B1/1000		
BH	(60°-80°)	136.8	2.4	B1/500		G1/500
BVH	(80°-90°)	15.9	0.3			G1/100
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°	39°	45°	55°	65°	75°	85°
0°	869.4	869.4	869.4	869.4	869.4	869.4	869.4	869.4	869.4	869.4	869.4
2.5°	886.4	886.1	883.8	882.0	880.5	880.0	881.1	876.8	873.0	868.4	863.3
5°	879.6	879.4	875.6	872.1	868.6	867.5	867.2	859.4	854.6	847.7	838.3
7.5°	872.4	870.9	866.0	860.2	854.1	851.1	848.3	838.0	832.8	825.8	815.1
10°	864.9	863.1	858.4	852.7	846.8	842.4	837.5	827.5	822.0	816.8	804.2
12.5°	857.0	855.5	854.4	851.7	847.7	843.9	840.1	831.7	825.8	819.7	805.1
15°	855.8	855.3	857.9	859.7	857.2	855.0	850.9	843.6	837.5	831.4	812.5
17.5°	865.2	864.9	871.6	876.1	875.0	870.9	865.5	857.2	852.3	847.1	823.5
20°	885.5	886.9	895.2	901.3	895.4	889.6	880.5	869.2	866.7	864.2	834.8
22.5°	924.0	925.4	931.2	933.6	918.5	910.0	897.4	883.0	881.1	883.0	848.5
25°	984.0	982.5	981.5	972.9	945.2	932.1	916.1	901.0	901.8	909.7	867.7
27.5°	1063.4	1055.6	1043.3	1017.1	973.2	958.6	939.1	925.1	930.7	945.7	896.6
30°	1145.8	1137.1	1108.9	1066.1	1009.9	993.8	972.0	956.2	970.9	994.7	935.0
32.5°	1222.2	1221.0	1179.7	1124.6	1060.6	1046.6	1024.8	1007.0	1030.6	1066.9	992.7
35°	1305.4	1308.1	1258.5	1192.4	1128.9	1114.5	1098.7	1085.3	1116.7	1166.8	1076.2
37.5°	1394.4	1399.7	1341.2	1266.7	1207.0	1200.9	1191.6	1185.8	1234.4	1303.7	1193.0
40°	1513.7	1508.5	1427.2	1350.6	1302.8	1302.5	1299.6	1306.6	1387.5	1482.4	1343.1
42.5°	1641.2	1625.8	1518.2	1440.6	1408.0	1417.8	1423.6	1452.2	1571.9	1699.7	1525.8
45°	1778.6	1744.0	1612.8	1535.7	1524.7	1545.7	1565.4	1627.5	1788.8	1946.9	1726.2
47.5°	1888.4	1854.9	1710.8	1635.6	1659.7	1691.6	1729.7	1827.8	2031.6	2202.3	1923.9
50°	1974.9	1953.0	1809.5	1752.1	1808.6	1857.5	1919.8	2054.6	2284.4	2451.0	2107.1
52.5°	2058.8	2042.4	1909.1	1871.5	1983.3	2050.9	2135.6	2298.0	2543.5	2695.5	2261.1
55°	2134.5	2122.8	2016.3	2020.3	2188.9	2276.9	2383.4	2575.3	2826.0	2913.7	2391.5
57.5°	2219.8	2205.0	2138.5	2206.9	2453.0	2567.1	2705.8	2886.8	3091.1	3107.7	2490.9
60°	2305.7	2292.8	2274.2	2422.4	2788.6	2908.5	3039.8	3188.8	3359.8	3258.1	2485.0
62.5°	2380.2	2381.7	2414.6	2648.7	3116.9	3255.8	3416.0	3563.4	3603.0	3284.4	2301.3
65°	2506.6	2529.6	2627.6	2969.0	3579.4	3765.2	3961.7	3938.1	3670.2	3039.5	1907.3
67.5°	2656.8	2697.3	2896.3	3395.9	4163.8	4410.5	4486.4	4022.8	3400.8	2470.8	1359.6
70°	2641.7	2697.3	3012.1	3714.2	4645.3	4810.8	4580.1	3640.7	2700.6	1614.1	722.2
72.5°	2345.9	2425.3	2776.0	3568.3	4493.8	4479.1	3976.3	2714.2	1604.5	648.2	282.2
75°	1787.9	1868.4	2170.0	2819.0	3551.7	3429.4	2821.4	1499.4	608.9	257.5	177.9
77.5°	1028.4	1090.9	1323.7	1728.8	2253.3	2127.8	1570.4	666.8	296.4	179.4	138.9
80°	574.2	608.9	750.4	877.1	1104.2	1012.2	702.6	414.4	221.4	130.1	107.2
82.5°	454.0	484.8	606.8	553.3	504.3	465.3	403.6	369.0	176.8	82.2	64.0
85°	396.6	426.0	513.6	435.6	344.5	316.0	327.9	363.1	137.4	49.5	54.7
87.5°	367.4	406.8	457.8	335.8	268.2	237.6	302.5	398.0	44.2	30.9	22.2
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°	869.4	869.4	869.4	869.4	869.4	869.4	869.4	869.4	869.4	869.4	869.4
2.5°	859.0	854.4	846.8	840.1	829.6	824.1	818.0	813.6	810.0	807.2	811.8
5°	832.5	823.9	807.8	790.6	770.2	754.2	740.8	728.3	719.6	713.7	717.9
7.5°	807.4	793.2	768.2	737.1	702.1	672.4	647.9	626.4	611.6	601.9	605.8
10°	793.2	775.4	736.7	687.8	636.2	590.0	551.5	518.3	495.3	482.3	484.2
12.5°	789.7	766.7	713.1	645.8	575.4	511.0	456.9	411.0	378.6	361.6	362.2
15°	792.3	762.9	690.9	605.8	516.6	435.3	367.7	311.8	274.3	255.1	254.8
17.5°	796.7	760.0	667.7	562.2	456.9	362.5	287.2	232.4	199.2	183.8	182.6
20°	801.4	755.3	641.5	515.3	394.9	295.0	224.8	182.0	161.0	152.6	152.0
22.5°	808.1	751.2	614.4	465.9	334.0	240.3	184.8	156.1	145.0	140.6	140.1
25°	818.8	749.2	585.6	414.4	279.2	200.9	161.0	143.2	136.9	134.0	133.7
27.5°	836.9	752.1	558.6	364.3	234.7	174.4	147.6	136.9	132.2	129.6	129.3
30°	860.2	761.2	530.0	316.9	200.1	156.3	139.6	132.5	128.7	126.0	126.0
32.5°	898.8	776.3	500.0	275.8	175.3	143.9	133.4	128.7	125.5	123.5	123.1
35°	956.0	804.9	472.0	241.7	157.6	134.8	128.2	124.7	122.3	121.2	121.2
37.5°	1038.9	850.0	447.3	217.2	146.7	128.7	123.1	120.5	119.1	119.1	119.1
40°	1150.5	912.4	427.2	200.9	140.6	124.3	119.4	117.4	116.5	116.8	116.8
42.5°	1288.2	993.2	413.8	189.6	137.7	121.8	116.8	115.0	114.1	113.8	114.1
45°	1445.2	1085.3	412.4	181.2	134.8	119.9	115.0	113.3	111.6	110.4	110.4
47.5°	1597.8	1178.8	424.3	178.2	131.6	117.9	113.5	111.8	109.2	106.5	106.5
50°	1732.7	1258.2	440.4	179.4	130.4	115.0	111.2	110.4	106.3	103.4	103.0
52.5°	1839.7	1319.5	453.4	182.9	131.6	113.0	108.2	108.6	104.3	101.1	100.7
55°	1925.7	1359.6	449.9	186.4	134.3	111.8	105.7	106.3	102.8	99.5	99.5
57.5°	1963.3	1344.8	411.2	183.4	136.2	112.1	103.7	106.0	103.0	100.2	100.2
60°	1882.5	1212.8	338.7	170.7	133.7	111.2	102.8	107.2	106.8	103.9	103.7
62.5°	1638.6	976.7	262.7	151.8	124.7	106.8	100.4	106.8	110.1	109.2	108.9
65°	1262.9	695.7	200.6	131.3	112.4	99.5	94.4	100.2	104.6	105.7	105.4
67.5°	819.7	426.3	154.6	112.1	98.7	91.1	86.6	89.1	90.0	90.0	89.4
70°	403.0	229.5	123.1	94.4	84.7	82.2	79.5	78.0	76.6	75.4	75.4
72.5°	198.9	150.0	101.3	79.8	73.1	71.9	71.3	69.6	68.4	66.9	66.4
75°	147.1	122.1	86.2	67.3	63.0	61.7	63.0	61.4	61.1	60.0	59.4
77.5°	120.8	103.9	74.3	57.7	53.9	51.8	53.5	53.9	54.2	52.5	51.8
80°	98.2	88.0	62.1	47.7	44.2	42.8	43.9	46.3	46.9	44.2	43.0
82.5°	70.8	71.9	50.0	37.2	34.3	33.3	35.5	38.5	39.0	35.2	34.3
85°	59.4	60.0	38.5	26.6	23.6	21.9	25.6	28.5	30.6	26.8	25.9
87.5°	24.8	35.2	22.2	14.9	13.1	11.4	13.6	15.2	18.3	16.9	16.6
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)