

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: P191469

Luminaire Tested: **GLEON-AF-01-LED-E1-T3R-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191469
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
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-T3R-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4294.4 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 34
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

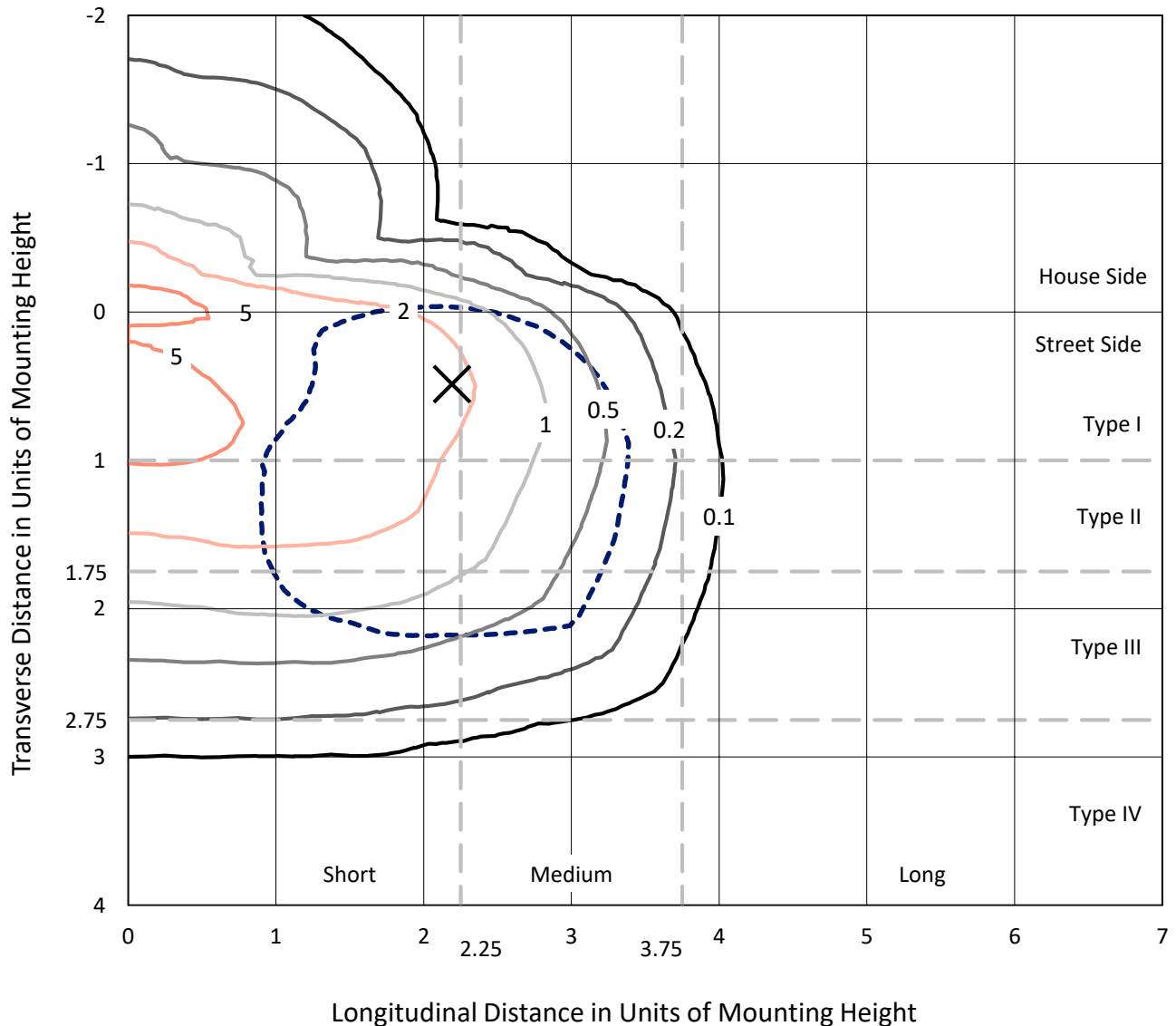


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

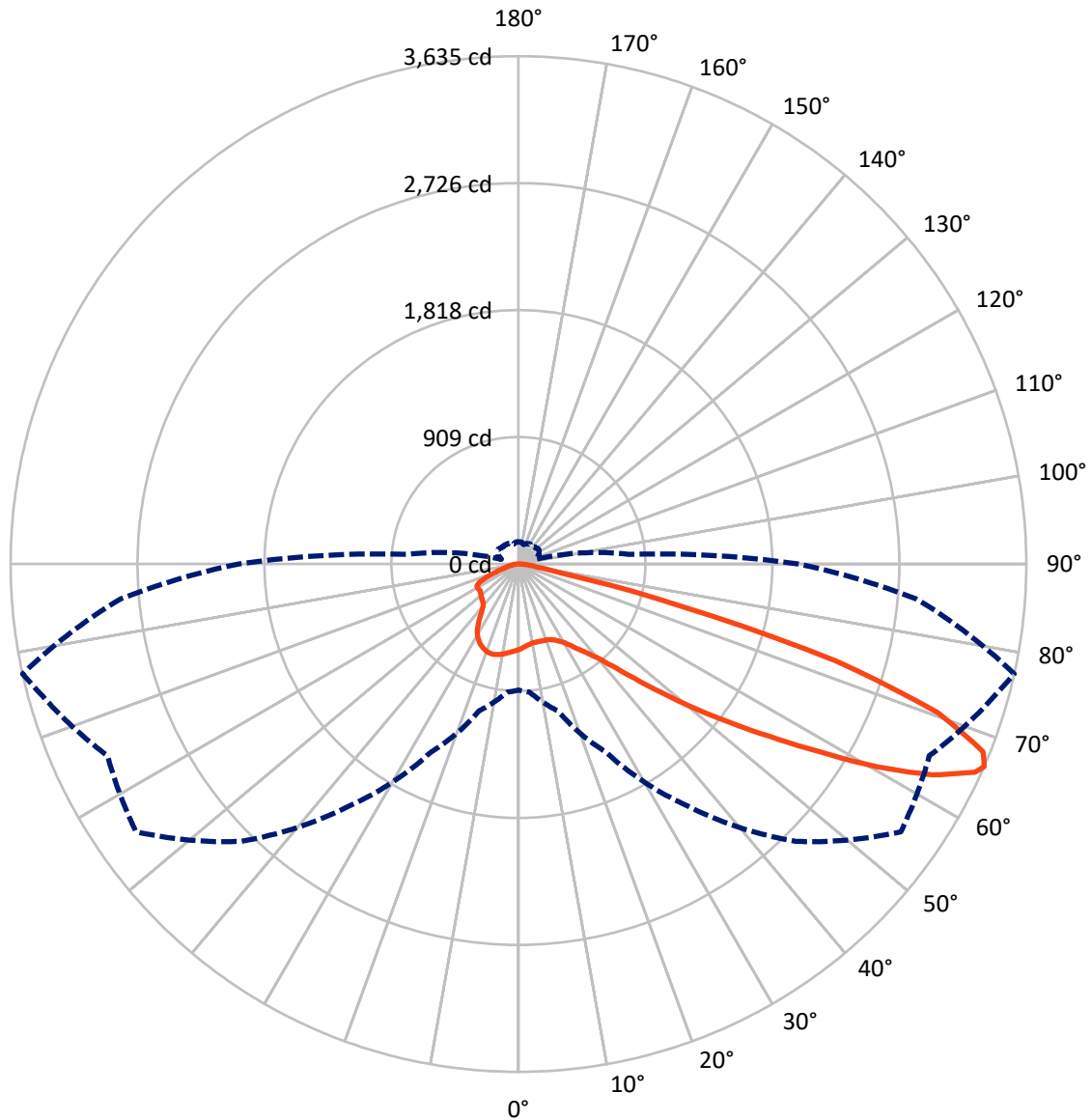


Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	733.7	0.0	733.7
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	3560.7	0.0	3560.7
	% Fixture	82.9	0.0	82.9
Total	Lumens	4294.4	0.0	4294.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.7	1.3
10°-20°	154.2	3.6
20°-30°	263.2	6.1
30°-40°	421.4	9.8
40°-50°	651.0	15.2
50°-60°	923.4	21.5
60°-70°	1235.2	28.8
70°-80°	536.4	12.5
80°-90°	54.7	1.3
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°	4294.4	100.0
0°-180°	4294.4	100.0



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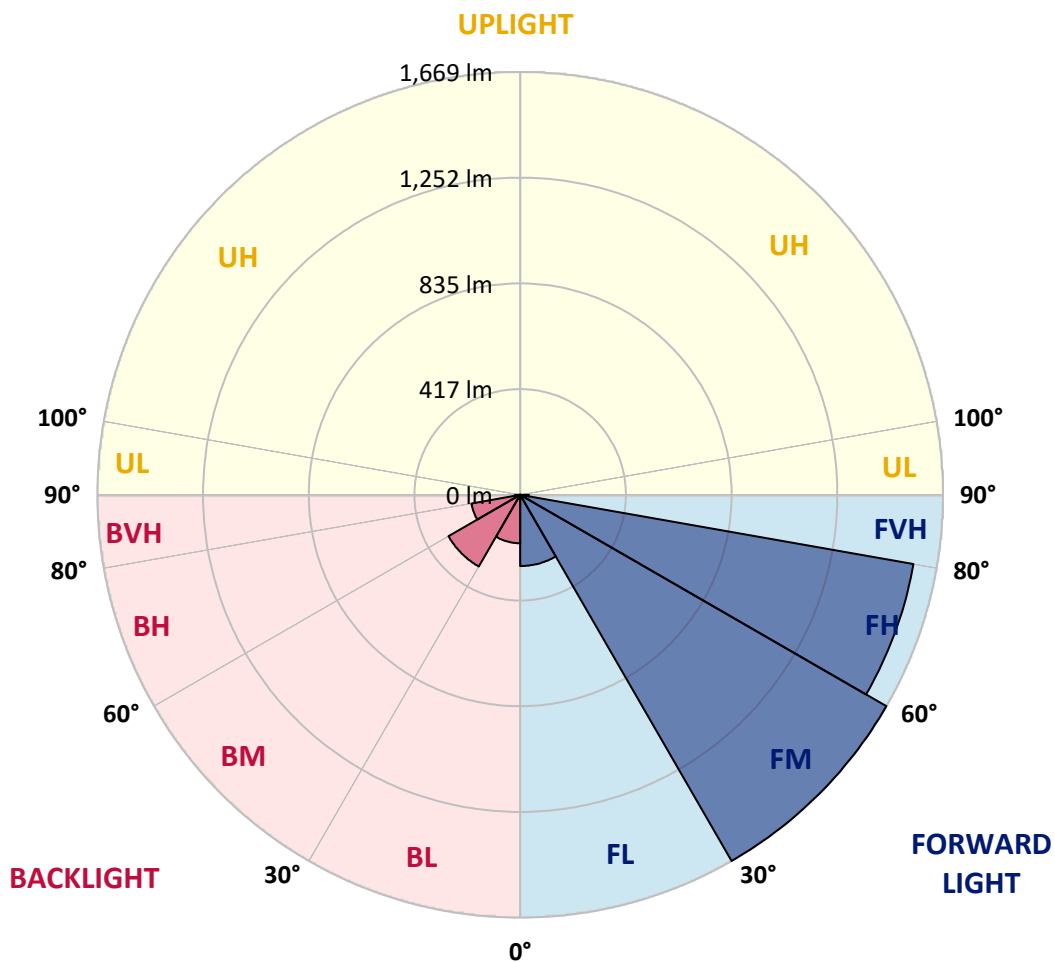
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	281.1	6.5			
FM	(30°-60°)	1669.0	38.9			
FH	(60°-80°)	1576.3	36.7			G1/1800
FVH	(80°-90°)	34.3	0.8			G1/100
BL	(0°-30°)	191.1	4.4	B1/500		
BM	(30°-60°)	326.8	7.6	B1/1000		
BH	(60°-80°)	195.4	4.5	B1/500		G1/500
BVH	(80°-90°)	20.4	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9
2.5°	541.3	545.0	548.1	550.9	556.6	565.9	576.6	585.4	597.9	600.4	607.1
5°	491.6	491.6	494.1	498.4	506.1	520.1	534.7	554.1	581.5	588.0	605.9
7.5°	467.5	467.7	469.1	472.8	479.5	492.2	508.3	531.2	568.4	579.1	609.6
10°	476.4	474.4	471.4	469.5	470.6	478.0	493.3	518.8	560.3	574.0	617.7
12.5°	526.3	522.5	511.9	498.0	484.6	479.0	487.9	512.9	556.8	572.9	628.4
15°	607.9	606.3	586.6	557.6	525.1	498.0	491.8	510.8	557.2	574.2	641.2
17.5°	710.1	708.0	682.0	639.8	586.8	533.9	505.4	512.5	558.6	576.6	653.6
20°	813.5	806.6	778.6	728.2	660.2	582.8	527.9	517.2	560.5	579.3	666.6
22.5°	890.6	884.9	859.7	810.8	732.5	639.3	558.2	525.3	566.3	587.0	682.6
25°	958.3	958.7	933.7	886.5	805.6	699.4	597.2	547.1	581.3	602.8	704.5
27.5°	1042.1	1037.3	1013.9	967.1	877.8	760.1	644.3	576.8	603.6	625.3	733.4
30°	1142.3	1139.0	1111.9	1058.8	957.9	825.2	698.0	611.5	632.5	655.0	771.0
32.5°	1260.3	1258.6	1230.6	1162.3	1050.5	901.9	761.1	657.5	675.5	698.8	825.2
35°	1398.7	1398.9	1365.7	1283.6	1151.7	991.2	832.7	716.5	727.8	752.2	889.8
37.5°	1483.9	1494.2	1481.8	1398.1	1266.3	1091.0	925.7	794.8	787.5	812.0	958.9
40°	1502.1	1514.7	1553.9	1511.2	1394.6	1201.0	1008.0	870.0	860.9	891.0	1048.0
42.5°	1476.5	1494.0	1576.8	1606.9	1530.7	1336.6	1118.8	981.8	970.3	1010.7	1158.8
45°	1461.3	1474.3	1570.1	1656.6	1648.8	1489.7	1259.9	1122.3	1118.0	1171.0	1286.7
47.5°	1435.0	1446.8	1538.8	1668.1	1718.3	1630.2	1429.3	1293.9	1302.2	1371.7	1430.9
50°	1449.1	1454.0	1503.9	1638.7	1738.3	1733.0	1618.6	1492.8	1521.2	1607.9	1594.3
52.5°	1447.2	1459.8	1499.9	1590.4	1741.0	1796.5	1805.1	1714.6	1774.4	1873.8	1775.4
55°	1169.9	1193.1	1452.2	1578.2	1750.3	1858.8	1971.0	1948.3	2059.9	2175.7	1979.9
57.5°	1117.2	1131.8	1275.5	1603.8	1799.8	1977.8	2155.7	2205.6	2392.3	2526.8	2229.1
60°	1106.8	1124.9	1273.7	1635.0	1900.2	2171.5	2429.4	2517.1	2796.6	2944.0	2518.1
62.5°	1074.6	1094.0	1261.7	1631.0	2042.8	2439.5	2779.8	2848.2	3180.1	3323.4	2759.7
65°	972.3	990.6	1164.1	1565.4	2139.0	2725.7	3194.6	3151.7	3482.8	3590.7	2880.2
66°	902.3	920.1	1087.2	1488.3	2116.7	2806.8	3341.5	3245.7	3550.7	3635.1	2856.7
67.5°	774.3	788.3	937.8	1315.6	1998.0	2829.5	3465.0	3316.3	3557.7	3587.6	2722.2
70°	489.2	493.3	609.6	908.2	1512.4	2454.0	3276.9	3141.0	3264.3	3183.6	2282.1
72.5°	212.3	210.8	292.6	462.1	856.3	1646.5	2650.8	2591.7	2560.7	2376.4	1597.4
75°	118.0	119.7	152.0	214.5	348.0	808.7	1734.0	1659.3	1401.0	1195.5	724.4
77.5°	94.7	97.0	126.0	152.2	156.2	282.0	811.4	660.2	397.5	319.0	201.3
80°	74.9	79.0	110.0	118.5	105.3	116.3	262.2	209.6	157.2	144.2	104.3
82.5°	59.2	62.1	94.3	89.7	73.7	78.4	125.6	122.3	102.3	93.1	60.3
85°	42.7	47.9	77.5	67.6	48.3	52.8	83.4	80.0	58.6	47.9	26.6
87.5°	17.5	22.7	54.8	44.8	27.0	24.6	41.6	39.2	27.8	20.3	13.2
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°	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9	611.9
2.5°	611.3	616.2	622.5	626.4	628.4	629.8	632.1	631.9	632.5	632.7	633.5
5°	615.4	623.5	632.7	635.0	635.0	632.9	630.6	627.0	625.5	625.1	625.5
7.5°	625.9	634.8	642.8	640.0	633.9	624.9	613.4	603.2	597.8	596.0	595.6
10°	639.3	650.1	653.4	642.6	624.7	603.2	580.3	563.6	554.1	551.5	550.7
12.5°	655.6	665.7	661.2	638.5	605.5	570.8	539.1	512.5	492.7	486.4	486.0
15°	673.4	681.4	665.7	625.9	576.6	525.5	469.1	423.3	398.5	390.6	389.9
17.5°	690.1	694.2	663.1	604.1	534.3	451.4	376.5	341.3	332.8	334.8	335.2
20°	704.3	704.3	654.2	572.6	467.5	353.8	306.6	306.0	312.1	318.1	319.4
22.5°	720.0	710.5	638.5	528.1	373.0	289.6	282.6	288.4	295.2	302.0	302.9
25°	739.2	715.7	616.8	460.8	293.2	263.0	265.6	270.3	273.7	277.9	278.5
27.5°	760.7	722.1	588.2	368.1	254.4	246.3	248.4	250.0	249.6	251.2	251.6
30°	786.4	729.7	549.0	287.8	238.4	232.1	228.4	227.1	227.1	229.7	230.7
32.5°	820.9	740.8	492.9	246.5	230.7	222.0	210.2	204.9	206.9	215.8	217.9
35°	858.9	752.8	416.8	232.5	229.0	217.3	199.1	189.3	189.6	197.8	200.5
37.5°	900.3	768.0	333.4	229.9	232.7	217.5	193.1	179.7	174.3	174.3	175.3
40°	953.3	783.6	269.9	231.7	240.4	219.9	190.2	172.3	156.8	157.2	158.0
42.5°	1022.2	797.0	235.8	235.6	249.8	223.2	190.0	162.3	148.9	158.0	166.4
45°	1099.0	803.7	220.8	239.1	257.3	225.3	186.7	160.7	150.0	177.2	192.9
47.5°	1187.2	799.8	212.5	240.3	259.1	225.3	183.0	164.6	157.0	205.1	223.6
50°	1284.0	788.7	204.3	237.8	258.5	224.8	186.5	168.4	159.7	210.0	222.8
52.5°	1397.9	779.4	195.8	232.5	254.2	222.6	190.6	166.7	151.4	191.0	199.9
55°	1527.7	782.0	186.3	225.0	247.6	218.3	189.1	160.3	142.6	168.2	173.7
57.5°	1693.7	813.5	174.9	215.5	238.4	211.2	184.0	157.2	140.0	152.6	155.8
60°	1879.0	868.3	160.7	205.9	227.1	199.9	180.1	158.7	141.3	151.4	153.0
62.5°	2014.9	900.1	148.5	191.9	211.6	187.3	175.3	160.5	144.4	155.6	155.2
65°	2051.8	847.7	133.3	171.4	190.8	174.1	169.2	162.5	145.9	159.1	157.2
66°	2000.1	791.4	126.6	161.9	180.1	167.6	166.2	162.3	145.3	159.5	156.4
67.5°	1874.5	675.7	115.1	147.9	163.4	157.8	161.3	160.5	143.6	159.1	154.8
70°	1528.7	461.0	98.4	123.2	136.0	139.0	152.0	154.1	138.4	152.0	142.6
72.5°	1068.1	280.8	87.1	95.5	110.0	118.5	139.2	145.1	131.2	132.7	123.8
75°	516.2	149.1	79.0	74.1	85.4	99.0	123.8	132.9	120.1	111.0	107.7
77.5°	160.9	91.1	67.0	59.6	67.0	80.0	103.5	116.5	106.9	92.9	91.8
80°	86.4	67.0	51.6	47.9	53.0	62.7	81.3	97.2	92.0	83.4	74.5
82.5°	57.0	43.4	38.2	37.1	40.4	47.9	60.5	80.5	80.5	71.4	52.0
85°	29.5	26.6	26.2	26.2	28.2	31.8	41.2	62.1	66.2	37.7	31.2
87.5°	14.6	15.2	14.2	14.8	15.9	15.7	19.6	31.2	37.3	22.9	19.0
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)