

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: P194019

Luminaire Tested: **GLEON-AF-01-LED-E1-T3R-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194019
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-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4201 lumens
Efficiency: N/A
Efficacy: 95.5 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): 44
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

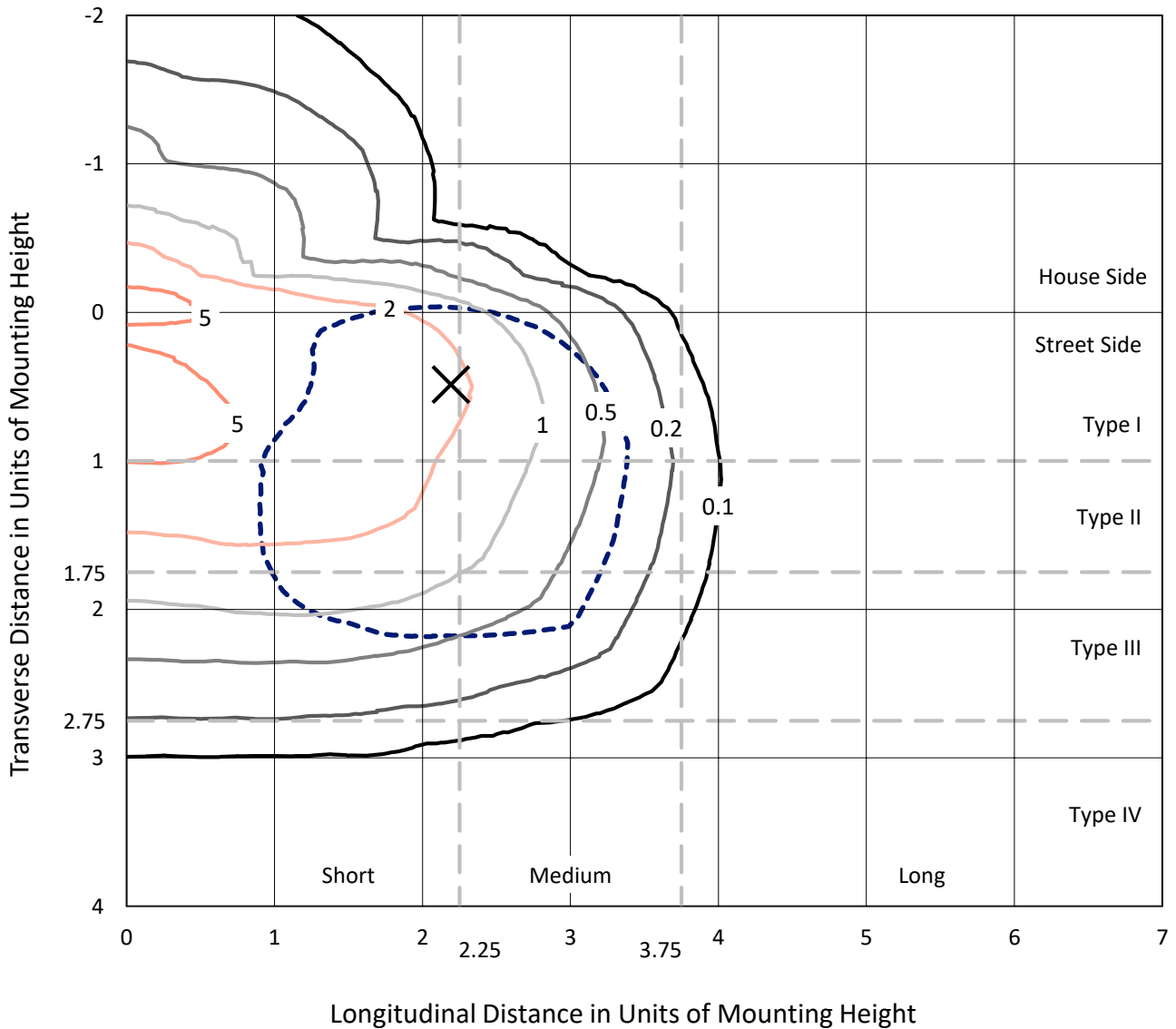


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

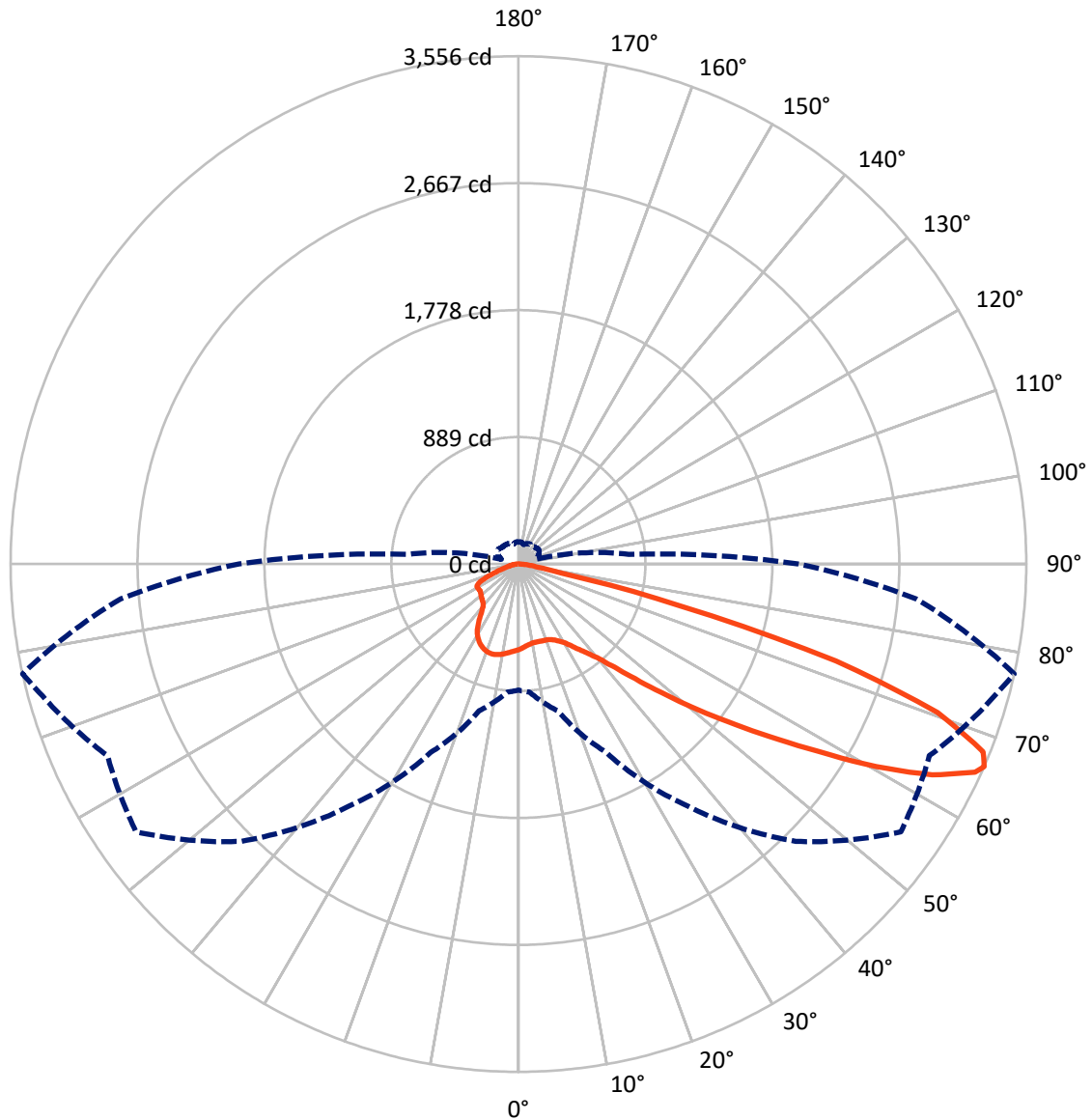


Based on 10 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - Full Cutoff

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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	717.7	0.0	717.7
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	3483.3	0.0	3483.3
	% Fixture	82.9	0.0	82.9
Total	Lumens	4201.0	0.0	4201.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.5	1.3
10°-20°	150.9	3.6
20°-30°	257.5	6.1
30°-40°	412.2	9.8
40°-50°	636.9	15.2
50°-60°	903.3	21.5
60°-70°	1208.4	28.8
70°-80°	524.8	12.5
80°-90°	53.5	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°	4201.0	100.0
0°-180°	4201.0	100.0



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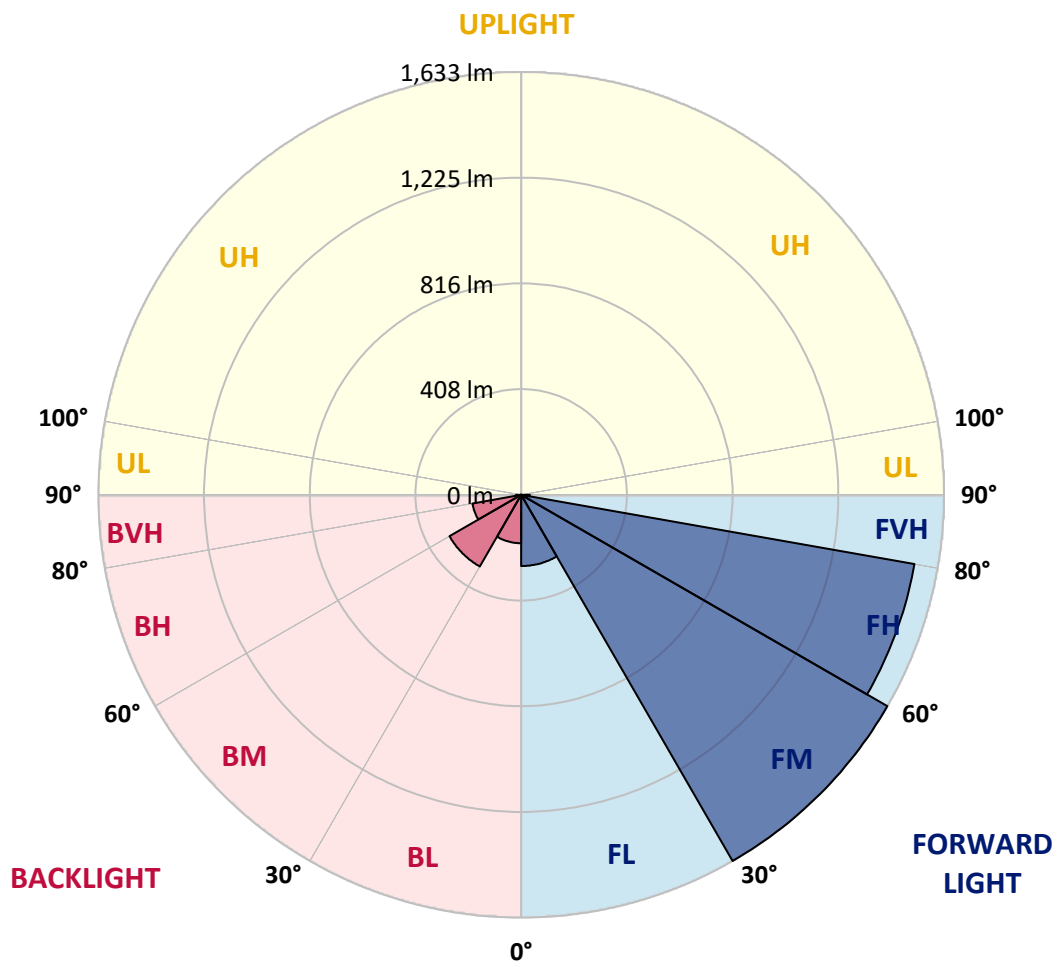
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	275.0	6.5			
FM	(30°-60°)	1632.7	38.9			
FH	(60°-80°)	1542.0	36.7			G1/1800
FVH	(80°-90°)	33.6	0.8			G1/100
BL	(0°-30°)	186.9	4.4	B1/500		
BM	(30°-60°)	319.7	7.6	B1/1000		
BH	(60°-80°)	191.1	4.5	B1/500		G1/500
BVH	(80°-90°)	20.0	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°	598.7	598.7	598.7	598.7	598.7	598.7	598.7	598.7	598.7	598.7	598.7
2.5°	529.6	533.2	536.1	538.9	544.5	553.6	564.1	572.7	585.0	587.3	593.9
5°	481.0	481.0	483.3	487.5	495.0	508.7	523.0	542.1	568.9	575.2	592.7
7.5°	457.3	457.5	458.9	462.5	469.0	481.6	497.2	519.7	556.0	566.5	596.3
10°	466.1	464.1	461.1	459.3	460.3	467.7	482.5	507.6	548.0	561.5	604.2
12.5°	514.9	511.1	500.8	487.1	474.0	468.6	477.4	501.8	544.7	560.4	614.7
15°	594.7	593.1	573.9	545.5	513.7	487.1	481.2	499.6	545.1	561.7	627.2
17.5°	694.7	692.6	667.1	625.9	574.0	522.2	494.5	501.4	546.5	564.1	639.4
20°	795.8	789.0	761.6	712.4	645.9	570.1	516.5	506.0	548.2	566.7	652.1
22.5°	871.2	865.6	841.0	793.2	716.6	625.5	546.1	513.9	554.0	574.2	667.7
25°	937.5	937.9	913.5	867.2	788.0	684.2	584.2	535.1	568.7	589.7	689.2
27.5°	1019.5	1014.7	991.9	946.0	858.7	743.6	630.2	564.3	590.5	611.8	717.4
30°	1117.5	1114.2	1087.8	1035.7	937.1	807.3	682.8	598.3	618.7	640.7	754.3
32.5°	1232.9	1231.3	1203.9	1137.0	1027.6	882.3	744.6	643.1	660.8	683.6	807.3
35°	1368.2	1368.4	1336.1	1255.7	1126.7	969.7	814.6	700.9	712.0	735.8	870.4
37.5°	1451.6	1461.7	1449.6	1367.6	1238.8	1067.3	905.5	777.5	770.4	794.4	938.1
40°	1469.5	1481.8	1520.1	1478.4	1364.3	1174.9	986.1	851.1	842.2	871.6	1025.2
42.5°	1444.5	1461.5	1542.5	1571.9	1497.5	1307.5	1094.5	960.5	949.2	988.7	1133.6
45°	1429.6	1442.3	1536.0	1620.5	1613.0	1457.4	1232.5	1097.9	1093.7	1145.5	1258.7
47.5°	1403.8	1415.3	1505.4	1631.8	1680.9	1594.7	1398.2	1265.8	1273.9	1341.8	1399.8
50°	1417.7	1422.4	1471.2	1603.0	1700.5	1695.4	1583.4	1460.3	1488.1	1572.9	1559.6
52.5°	1415.7	1428.0	1467.3	1555.8	1703.1	1757.5	1765.8	1677.3	1735.8	1833.1	1736.8
55°	1144.5	1167.2	1420.6	1543.9	1712.2	1818.4	1928.2	1906.0	2015.1	2128.5	1936.9
57.5°	1092.9	1107.2	1247.7	1568.9	1760.7	1934.7	2108.8	2157.6	2340.3	2471.9	2180.7
60°	1082.8	1100.5	1246.0	1599.5	1858.9	2124.3	2376.6	2462.3	2735.9	2880.0	2463.3
62.5°	1051.2	1070.3	1234.2	1595.5	1998.5	2386.5	2719.4	2786.3	3111.0	3251.2	2699.7
65°	951.2	969.1	1138.8	1531.4	2092.5	2666.4	3125.1	3083.2	3407.2	3512.6	2817.6
66°	882.7	900.2	1063.5	1456.0	2070.7	2745.8	3268.8	3175.1	3473.5	3556.0	2794.6
67.5°	757.5	771.2	917.4	1287.0	1954.6	2768.0	3389.7	3244.2	3480.4	3509.6	2663.0
70°	478.6	482.5	596.3	888.5	1479.6	2400.6	3205.7	3072.7	3193.4	3114.4	2232.5
72.5°	207.6	206.2	286.2	452.0	837.7	1610.8	2593.1	2535.4	2505.0	2324.8	1562.8
75°	115.5	117.1	148.7	209.8	340.4	791.2	1696.3	1623.3	1370.6	1169.5	708.6
77.5°	92.7	94.9	123.3	148.9	152.8	275.9	793.8	645.9	388.9	312.0	196.9
80°	73.2	77.2	107.6	115.9	103.0	113.7	256.5	205.0	153.8	141.1	102.0
82.5°	58.0	60.7	92.3	87.7	72.1	76.6	122.9	119.7	100.0	91.1	59.0
85°	41.7	46.8	75.8	66.1	47.2	51.6	81.6	78.2	57.4	46.8	26.0
87.5°	17.1	22.2	53.6	43.9	26.4	24.0	40.7	38.3	27.2	19.8	12.9
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°	598.7	598.7	598.7	598.7	598.7	598.7	598.7	598.7	598.7	598.7	598.7
2.5°	598.1	602.8	609.0	612.8	614.7	616.1	618.3	618.1	618.7	618.9	619.7
5°	602.0	610.0	618.9	621.3	621.3	619.1	616.9	613.4	612.0	611.6	612.0
7.5°	612.4	621.1	628.8	626.1	620.1	611.4	600.1	590.1	584.8	583.0	582.6
10°	625.5	636.0	639.2	628.6	611.2	590.1	567.7	551.4	542.1	539.5	538.7
12.5°	641.3	651.3	646.9	624.7	592.3	558.4	527.4	501.4	481.9	475.8	475.4
15°	658.8	666.5	651.3	612.4	564.1	514.1	458.9	414.1	389.8	382.1	381.5
17.5°	675.1	679.1	648.7	590.9	522.6	441.7	368.4	333.9	325.5	327.5	327.9
20°	689.0	689.0	639.9	560.2	457.3	346.2	299.9	299.3	305.3	311.2	312.4
22.5°	704.3	695.1	624.7	516.7	364.8	283.3	276.5	282.1	288.8	295.4	296.4
25°	723.1	700.1	603.4	450.8	286.8	257.3	259.8	264.4	267.8	271.9	272.5
27.5°	744.2	706.4	575.4	360.1	248.9	241.0	243.0	244.5	244.1	245.7	246.1
30°	769.4	713.8	537.1	281.5	233.2	227.1	223.5	222.1	222.1	224.7	225.7
32.5°	803.1	724.7	482.1	241.2	225.7	217.2	205.6	200.5	202.5	211.2	213.2
35°	840.2	736.4	407.7	227.5	224.1	212.6	194.7	185.2	185.4	193.5	196.1
37.5°	880.7	751.3	326.1	224.9	227.7	212.8	189.0	175.9	170.5	170.5	171.5
40°	932.5	766.6	264.0	226.7	235.2	215.2	186.0	168.5	153.4	153.8	154.6
42.5°	1000.0	779.7	230.7	230.5	244.3	218.3	185.8	158.8	145.7	154.6	162.8
45°	1075.1	786.2	216.0	233.8	251.7	220.3	182.6	157.2	146.7	173.3	188.8
47.5°	1161.4	782.5	207.8	235.0	253.5	220.3	179.0	161.0	153.6	200.7	218.7
50°	1256.1	771.6	199.9	232.6	252.9	219.9	182.4	164.8	156.2	205.4	217.9
52.5°	1367.4	762.4	191.5	227.5	248.7	217.7	186.4	163.2	148.1	186.8	195.5
55°	1494.5	765.0	182.2	220.1	242.2	213.6	185.0	156.8	139.5	164.6	169.9
57.5°	1656.8	795.8	171.1	210.8	233.2	206.6	180.0	153.8	137.0	149.3	152.4
60°	1838.1	849.4	157.2	201.5	222.1	195.5	176.3	155.2	138.2	148.1	149.7
62.5°	1971.1	880.5	145.3	187.8	207.0	183.2	171.5	157.0	141.3	152.2	151.8
65°	2007.2	829.3	130.4	167.7	186.6	170.3	165.5	159.0	142.7	155.6	153.8
66°	1956.6	774.1	123.9	158.4	176.3	164.0	162.6	158.8	142.1	156.0	153.0
67.5°	1833.7	661.0	112.5	144.7	159.8	154.4	157.8	157.0	140.5	155.6	151.5
70°	1495.5	451.0	96.3	120.5	133.0	136.0	148.7	150.7	135.4	148.7	139.5
72.5°	1044.9	274.7	85.2	93.5	107.6	115.9	136.2	141.9	128.4	129.8	121.1
75°	505.0	145.9	77.2	72.5	83.6	96.9	121.1	130.0	117.5	108.6	105.4
77.5°	157.4	89.1	65.5	58.4	65.5	78.2	101.2	113.9	104.6	90.9	89.7
80°	84.6	65.5	50.4	46.8	51.8	61.3	79.6	95.1	89.9	81.6	72.8
82.5°	55.8	42.5	37.3	36.3	39.5	46.8	59.2	78.8	78.8	69.9	50.8
85°	28.8	26.0	25.6	25.6	27.6	31.2	40.3	60.7	64.7	36.9	30.6
87.5°	14.3	14.9	13.9	14.5	15.5	15.3	19.3	30.6	36.5	22.4	18.7
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)