

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: P269031

Luminaire Tested: **GLEON-AF-01-LED-E1-T3R-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269031
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-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 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: 4472.6 lumens
Efficiency: N/A
Efficacy: 101.7 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

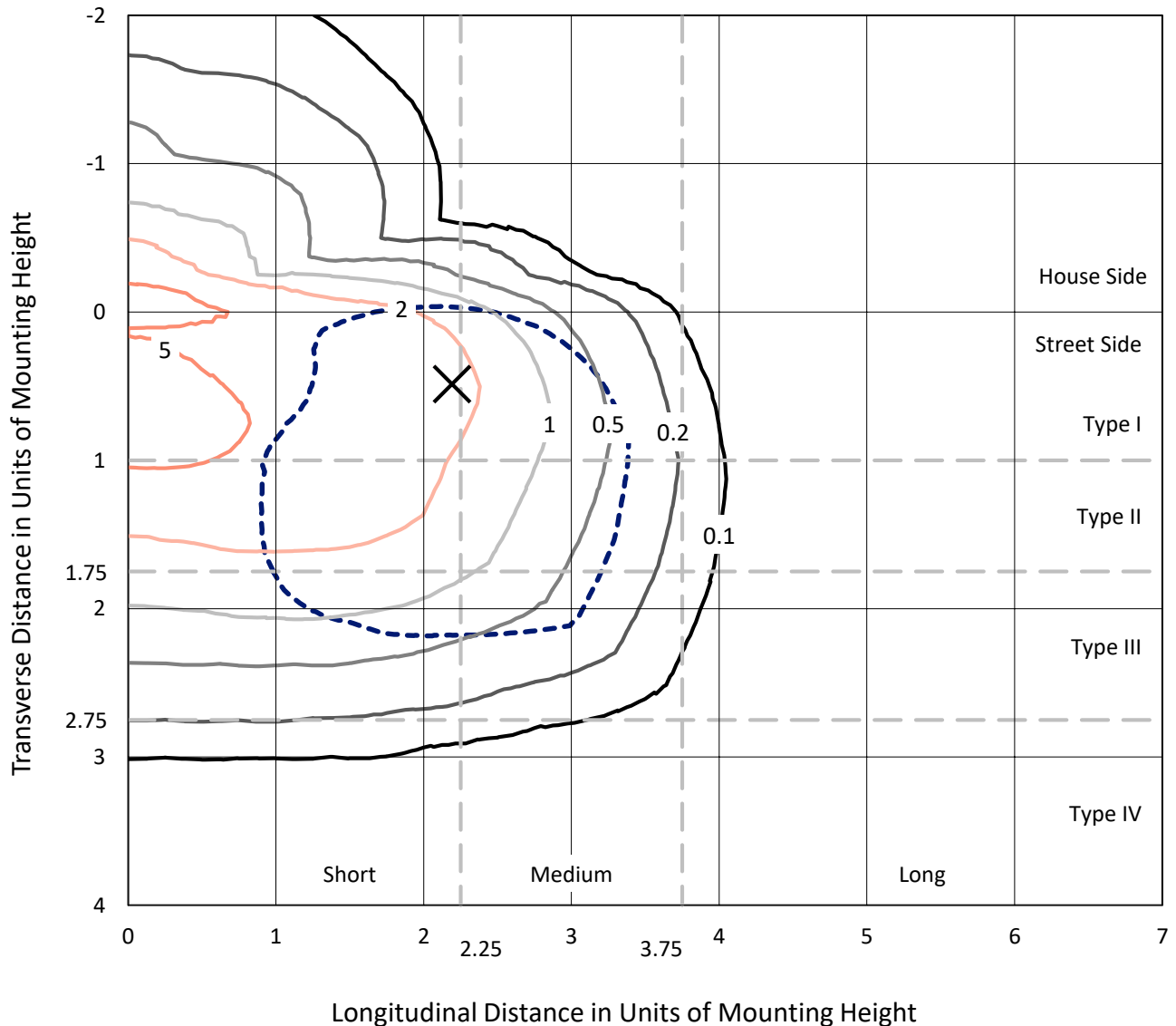
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

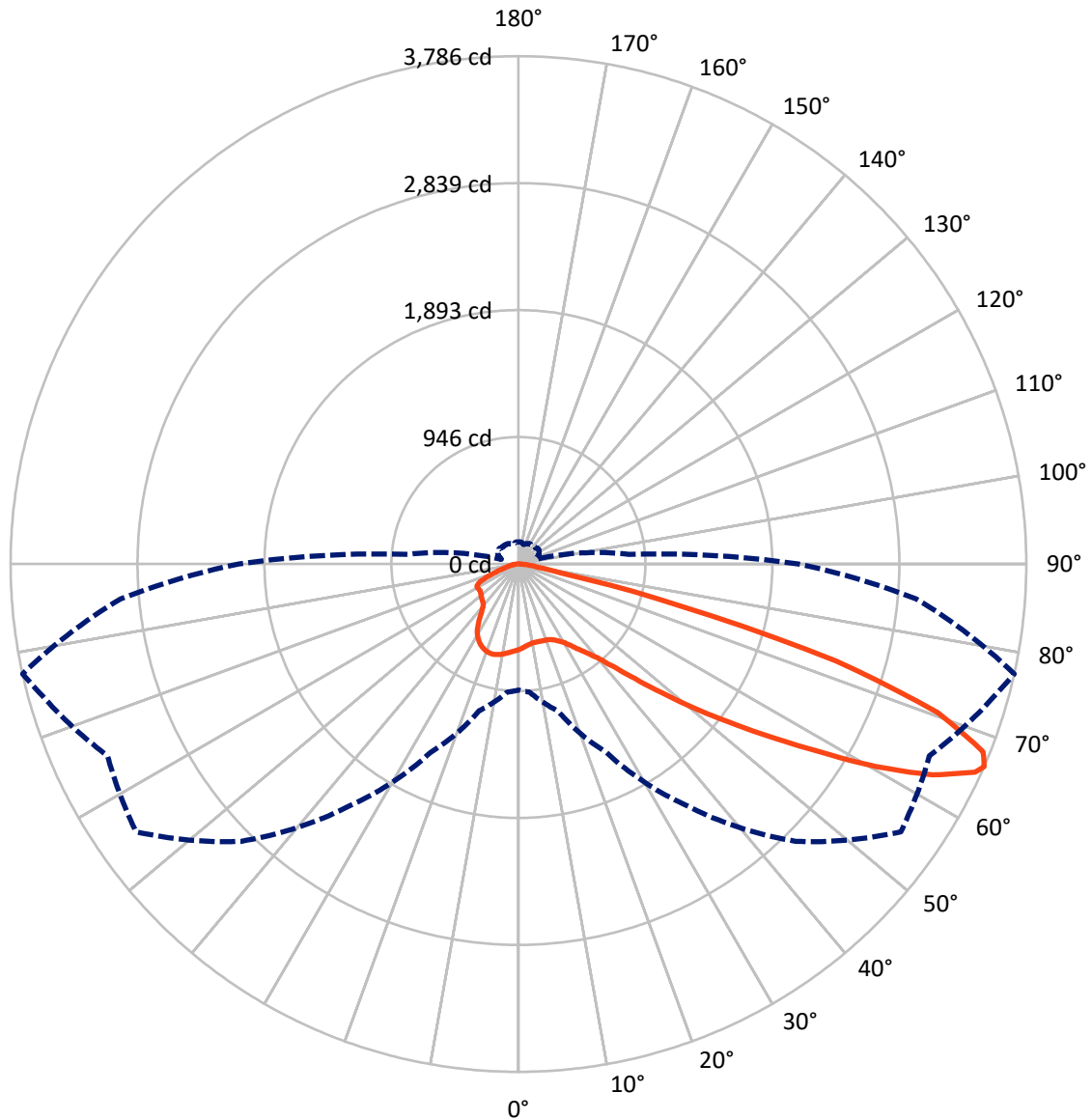
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.9 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	764.1	0.0	764.1
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	3708.5	0.0	3708.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	4472.6	0.0	4472.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.9	1.3
10°-20°	160.6	3.6
20°-30°	274.2	6.1
30°-40°	438.9	9.8
40°-50°	678.1	15.2
50°-60°	961.7	21.5
60°-70°	1286.5	28.8
70°-80°	558.7	12.5
80°-90°	57.0	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°	4472.6	100.0
0°-180°	4472.6	100.0



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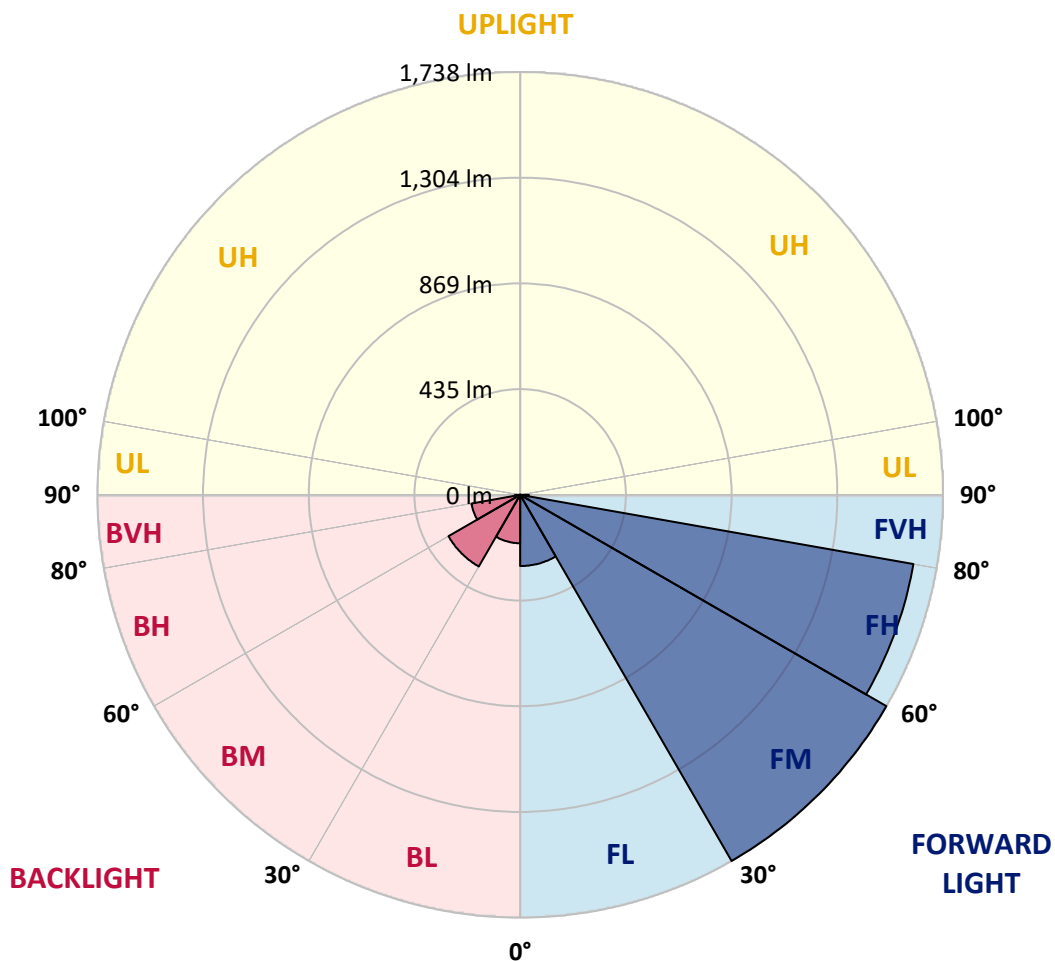
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	292.8	6.5			
FM	(30°-60°)	1738.3	38.9			
FH	(60°-80°)	1641.7	36.7			G1/1800
FVH	(80°-90°)	35.7	0.8			G1/100
BL	(0°-30°)	199.0	4.4	B1/500		
BM	(30°-60°)	340.4	7.6	B1/1000		
BH	(60°-80°)	203.5	4.5	B1/500		G1/500
BVH	(80°-90°)	21.2	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°	637.3	637.3	637.3	637.3	637.3	637.3	637.3	637.3	637.3	637.3	637.3
2.5°	563.9	567.5	570.9	573.7	579.6	589.4	600.5	609.7	622.7	625.3	632.2
5°	512.0	512.0	514.5	519.0	527.0	541.7	556.9	577.2	605.6	612.5	631.0
7.5°	486.9	487.2	488.6	492.5	499.4	512.8	529.5	553.3	592.0	603.1	634.8
10°	496.3	494.1	491.0	488.9	490.0	497.9	513.7	540.4	583.4	597.8	643.2
12.5°	548.1	544.2	533.1	518.6	504.7	499.0	508.3	534.2	579.9	596.6	654.4
15°	633.1	631.5	610.9	580.8	546.9	518.6	512.3	531.9	580.3	598.0	667.8
17.5°	739.7	737.2	710.3	666.4	611.1	556.1	526.4	533.9	581.8	600.5	680.6
20°	847.2	840.0	810.9	758.4	687.7	607.0	549.9	538.7	583.7	603.3	694.2
22.5°	927.5	921.7	895.4	844.4	762.9	666.0	581.4	547.2	589.7	611.3	710.9
25°	998.0	998.6	972.5	923.3	838.9	728.4	621.9	569.7	605.5	627.8	733.7
27.5°	1085.4	1080.3	1056.0	1007.2	914.2	791.6	670.9	600.7	628.8	651.4	763.7
30°	1189.7	1186.2	1158.0	1102.7	997.7	859.5	727.0	637.0	658.6	682.2	803.1
32.5°	1312.6	1310.8	1281.7	1210.5	1094.0	939.4	792.8	684.7	703.6	727.7	859.5
35°	1456.7	1457.0	1422.5	1336.9	1199.4	1032.3	867.4	746.2	758.0	783.4	926.7
37.5°	1545.4	1556.3	1543.4	1456.1	1318.9	1136.4	964.2	827.8	820.2	845.8	998.7
40°	1564.5	1577.6	1618.3	1574.0	1452.5	1250.9	1049.8	906.2	896.7	927.9	1091.5
42.5°	1537.9	1556.0	1642.2	1673.5	1594.2	1392.1	1165.3	1022.6	1010.6	1052.6	1207.0
45°	1522.0	1535.6	1635.3	1725.3	1717.3	1551.6	1312.2	1168.9	1164.5	1219.5	1340.0
47.5°	1494.5	1506.7	1602.8	1737.3	1789.6	1697.8	1488.6	1347.6	1356.4	1428.6	1490.3
50°	1509.3	1514.5	1566.4	1706.7	1810.4	1805.0	1685.8	1554.7	1584.3	1674.6	1660.3
52.5°	1507.1	1520.3	1562.2	1656.4	1813.1	1871.1	1880.1	1785.7	1848.1	1951.6	1849.2
55°	1218.6	1242.6	1512.4	1643.7	1822.9	1935.9	2052.8	2029.2	2145.4	2266.1	2062.1
57.5°	1163.6	1178.8	1328.5	1670.4	1874.6	2059.9	2245.1	2297.1	2491.5	2631.7	2321.7
60°	1152.9	1171.6	1326.4	1702.8	1979.1	2261.7	2530.3	2621.6	2912.8	3066.2	2622.6
62.5°	1119.2	1139.5	1314.0	1698.7	2127.6	2540.8	2895.1	2966.5	3312.2	3461.3	2874.2
65°	1012.7	1031.8	1212.4	1630.5	2227.8	2838.7	3327.1	3282.5	3627.4	3739.6	2999.8
66°	939.7	958.4	1132.4	1550.0	2204.6	2923.4	3480.2	3380.4	3698.1	3785.9	2975.2
67.5°	806.4	821.1	976.7	1370.3	2081.0	2947.0	3608.9	3454.0	3705.5	3736.5	2835.2
70°	509.5	513.7	634.8	945.9	1575.3	2555.8	3413.0	3271.4	3399.8	3315.7	2376.8
72.5°	221.1	219.5	304.7	481.2	891.7	1715.0	2760.9	2699.2	2667.0	2475.1	1663.8
75°	123.0	124.7	158.3	223.4	362.5	842.4	1806.0	1728.2	1459.2	1245.1	754.4
77.5°	98.8	101.0	131.2	158.6	162.8	293.7	845.1	687.7	413.9	332.3	209.7
80°	78.1	82.3	114.5	123.3	109.7	121.1	273.1	218.3	163.9	150.2	108.7
82.5°	61.8	64.7	98.3	93.5	76.7	81.6	130.9	127.4	106.4	96.9	62.7
85°	44.3	49.9	80.8	70.3	50.2	54.9	86.9	83.3	61.1	49.9	27.7
87.5°	18.1	23.6	57.0	46.7	28.0	25.6	43.3	40.9	28.9	21.1	13.7
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°	637.3	637.3	637.3	637.3	637.3	637.3	637.3	637.3	637.3	637.3	637.3
2.5°	636.7	641.7	648.3	652.3	654.4	655.9	658.3	658.1	658.6	658.9	659.7
5°	641.0	649.5	658.9	661.4	661.4	659.1	656.8	653.0	651.5	651.1	651.5
7.5°	652.0	661.2	669.4	666.5	660.2	650.9	638.9	628.3	622.5	620.6	620.3
10°	666.0	677.1	680.5	669.2	650.7	628.3	604.4	587.0	577.2	574.3	573.6
12.5°	682.8	693.4	688.7	665.0	630.6	594.5	561.5	533.9	513.1	506.6	506.1
15°	701.3	709.7	693.4	652.0	600.5	547.3	488.6	440.8	415.0	406.8	406.2
17.5°	718.7	723.0	690.6	629.2	556.4	470.3	392.2	355.5	346.6	348.7	349.1
20°	733.6	733.6	681.4	596.4	486.9	368.6	319.3	318.7	325.0	331.4	332.6
22.5°	749.7	740.1	665.0	550.1	388.4	301.7	294.4	300.4	307.5	314.4	315.6
25°	769.8	745.4	642.5	480.0	305.3	274.0	276.6	281.4	285.1	289.6	290.2
27.5°	792.2	752.2	612.6	383.3	265.0	256.6	258.6	260.4	259.9	261.6	262.0
30°	819.2	760.0	571.9	299.7	248.3	241.7	238.0	236.4	236.4	239.2	240.2
32.5°	855.0	771.6	513.3	256.7	240.2	231.3	218.9	213.4	215.6	224.8	226.9
35°	894.5	784.0	434.2	242.3	238.6	226.4	207.2	197.2	197.4	206.0	208.8
37.5°	937.7	799.9	347.3	239.5	242.5	226.6	201.2	187.2	181.5	181.5	182.5
40°	992.8	816.2	281.1	241.4	250.4	229.1	198.0	179.4	163.3	163.9	164.6
42.5°	1064.8	830.2	245.5	245.3	260.1	232.4	197.7	169.2	155.0	164.6	173.4
45°	1144.6	837.1	230.0	248.9	268.0	234.5	194.5	167.4	156.1	184.5	201.0
47.5°	1236.4	833.1	221.3	250.2	269.9	234.5	190.6	171.3	163.6	213.6	232.9
50°	1337.2	821.4	212.8	247.8	269.2	234.2	194.3	175.3	166.4	218.7	232.0
52.5°	1455.9	811.7	203.9	242.3	264.8	231.9	198.4	173.7	157.7	198.9	208.1
55°	1591.1	814.5	194.0	234.4	257.9	227.5	197.0	166.9	148.6	175.2	180.9
57.5°	1763.9	847.2	182.1	224.4	248.3	219.9	191.7	163.9	145.9	158.9	162.4
60°	1956.9	904.2	167.4	214.4	236.4	208.1	187.7	165.3	147.1	157.7	159.3
62.5°	2098.5	937.4	154.7	200.0	220.4	195.0	182.5	167.2	150.5	162.1	161.7
65°	2137.0	882.9	138.9	178.6	198.6	181.3	176.2	169.3	152.0	165.6	163.9
66°	2083.1	824.1	132.0	168.6	187.7	174.6	173.1	169.2	151.4	166.0	163.0
67.5°	1952.2	703.7	119.8	154.1	170.0	164.4	168.1	167.2	149.6	165.6	161.2
70°	1592.2	480.1	102.4	128.3	141.7	144.7	158.3	160.3	144.1	158.3	148.6
72.5°	1112.5	292.5	90.6	99.5	114.5	123.3	144.9	151.2	136.7	138.2	128.8
75°	537.6	155.3	82.3	77.2	88.9	103.1	128.8	138.3	125.1	115.6	112.2
77.5°	167.5	95.0	69.8	62.2	69.8	83.3	107.7	121.4	111.4	96.7	95.5
80°	90.0	69.8	53.7	49.9	55.2	65.2	84.7	101.1	95.7	86.9	77.6
82.5°	59.4	45.3	39.7	38.6	42.0	49.9	63.1	83.9	83.9	74.4	54.1
85°	30.6	27.7	27.3	27.3	29.4	33.1	42.8	64.7	68.9	39.3	32.6
87.5°	15.2	15.8	14.8	15.5	16.4	16.3	20.5	32.6	38.8	23.9	19.9
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)