

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: P194029

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194029
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5200 lumens
Efficiency: N/A
Efficacy: 88.1 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 - G2

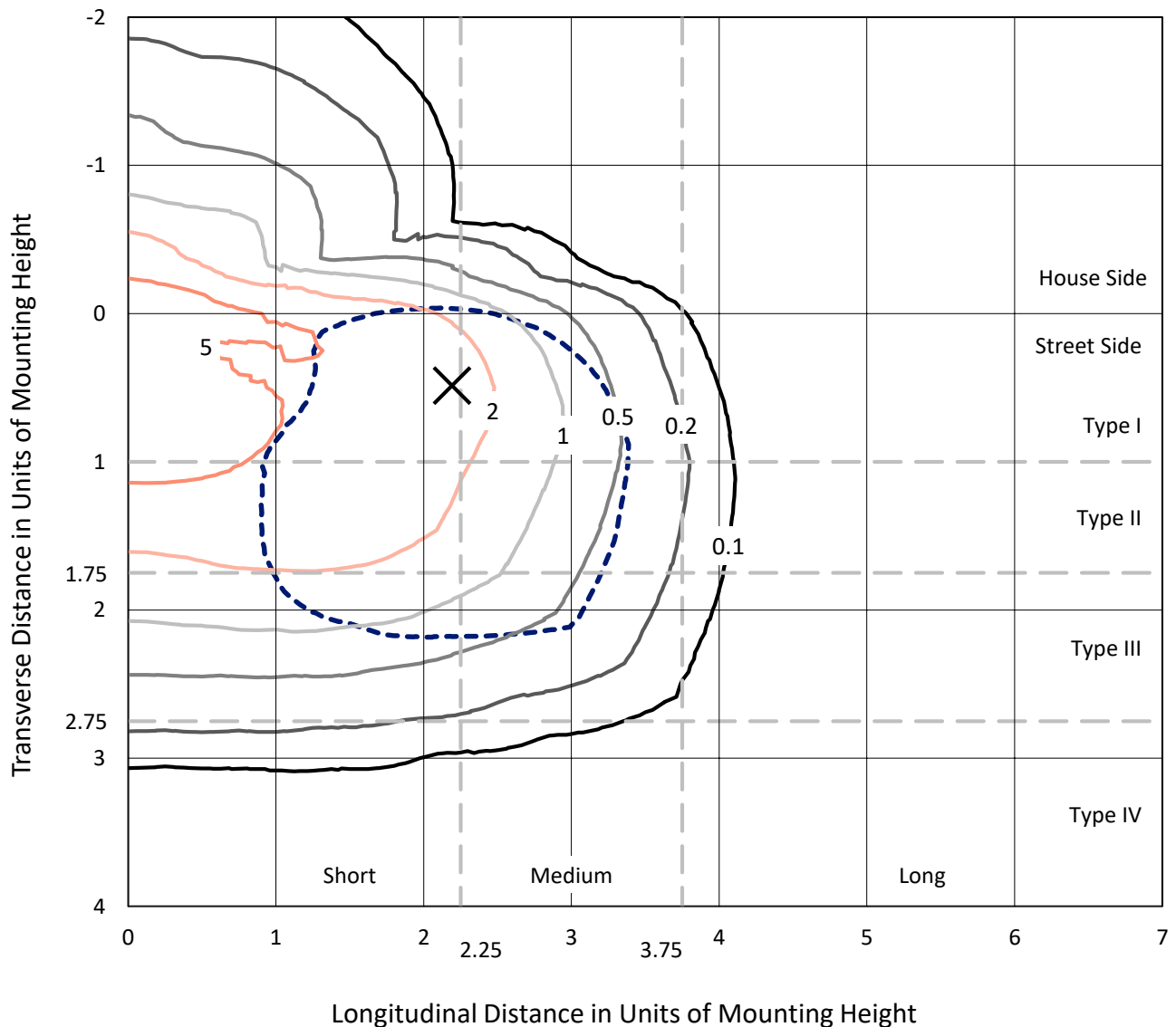
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

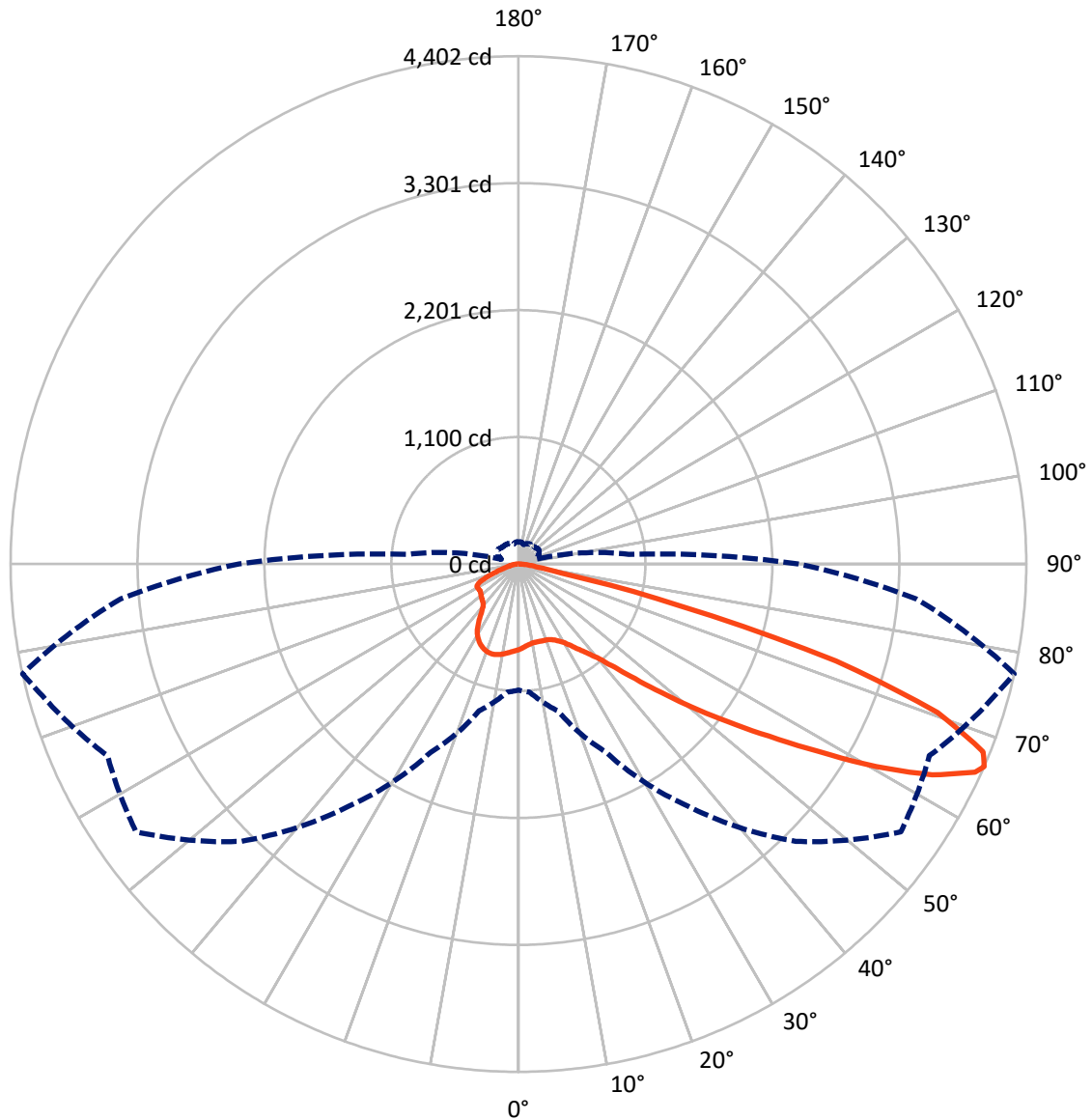
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.1 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	888.4	0.0	888.4
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	4311.6	0.0	4311.6
	% Fixture	82.9	0.0	82.9
Total	Lumens	5200.0	0.0	5200.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.2	1.3
10°-20°	186.8	3.6
20°-30°	318.8	6.1
30°-40°	510.3	9.8
40°-50°	788.3	15.2
50°-60°	1118.1	21.5
60°-70°	1495.7	28.8
70°-80°	649.6	12.5
80°-90°	66.2	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°	5200.0	100.0
0°-180°	5200.0	100.0



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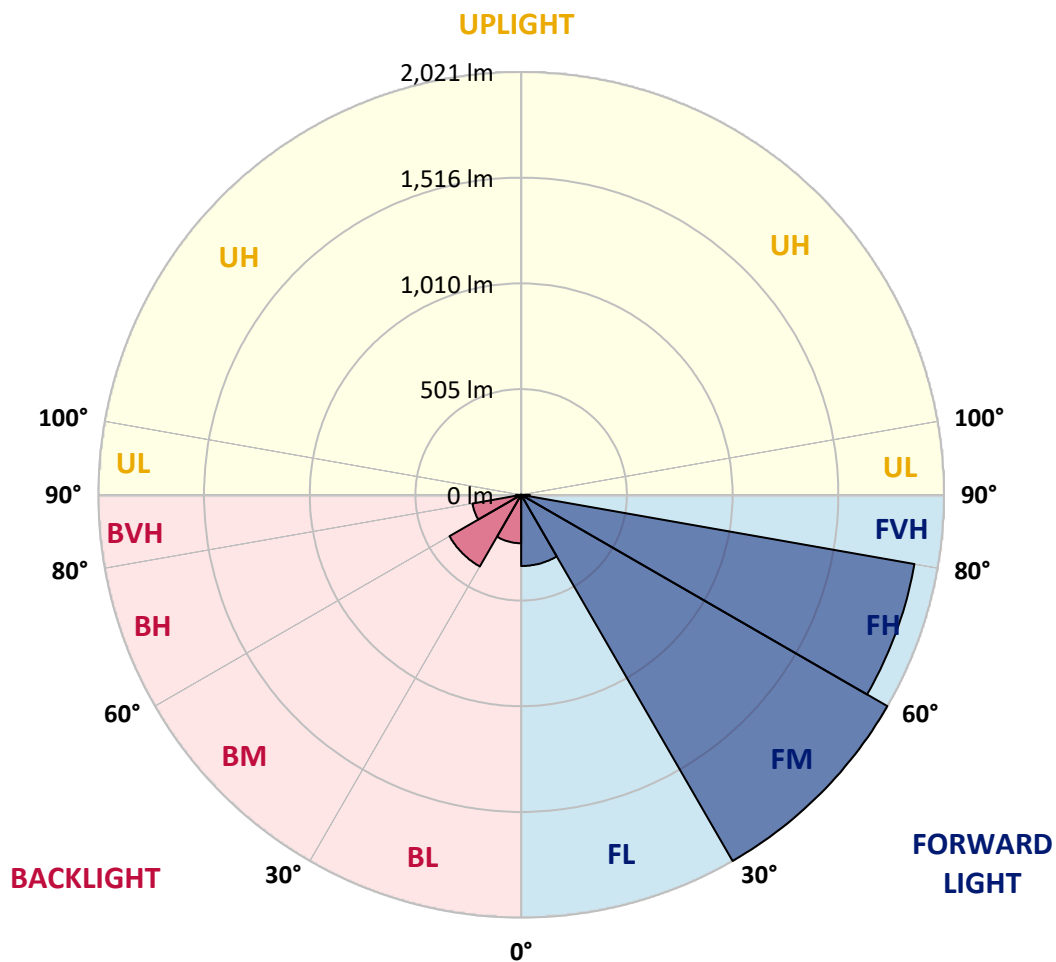
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	340.4	6.5			
FM	(30°-60°)	2021.0	38.9			
FH	(60°-80°)	1908.7	36.7			G2/5000
FVH	(80°-90°)	41.5	0.8			G1/100
BL	(0°-30°)	231.4	4.4	B1/500		
BM	(30°-60°)	395.7	7.6	B1/1000		
BH	(60°-80°)	236.6	4.5	B1/500		G1/500
BVH	(80°-90°)	24.7	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0
2.5°	655.5	659.9	663.6	667.1	673.9	685.3	698.3	708.8	724.1	727.0	735.1
5°	595.3	595.3	598.3	603.4	612.8	629.7	647.4	671.0	704.2	712.0	733.7
7.5°	566.1	566.3	568.1	572.5	580.6	596.1	615.5	643.2	688.2	701.2	738.1
10°	576.9	574.4	570.8	568.5	569.8	578.9	597.3	628.2	678.4	695.1	747.9
12.5°	637.3	632.7	619.9	602.9	586.7	580.1	590.9	621.1	674.2	693.6	760.9
15°	736.1	734.1	710.3	675.2	635.9	602.9	595.6	618.4	674.7	695.3	776.4
17.5°	859.9	857.2	825.8	774.7	710.6	646.4	612.0	620.6	676.4	698.3	791.4
20°	985.0	976.6	942.7	881.8	799.5	705.6	639.3	626.3	678.6	701.5	807.1
22.5°	1078.4	1071.5	1041.0	981.8	887.0	774.2	675.9	636.1	685.7	710.8	826.5
25°	1160.4	1160.9	1130.7	1073.5	975.4	846.9	723.1	662.4	703.9	730.0	853.1
27.5°	1261.9	1256.0	1227.8	1171.0	1062.9	920.4	780.1	698.5	731.0	757.2	888.0
30°	1383.3	1379.1	1346.4	1282.1	1159.9	999.3	845.2	740.5	765.8	793.1	933.7
32.5°	1526.0	1524.1	1490.2	1407.4	1272.0	1092.1	921.6	796.1	817.9	846.2	999.3
35°	1693.6	1693.8	1653.8	1554.3	1394.6	1200.2	1008.3	867.6	881.3	910.8	1077.4
37.5°	1796.8	1809.3	1794.3	1692.9	1533.4	1321.1	1120.9	962.4	953.6	983.3	1161.2
40°	1818.9	1834.1	1881.6	1830.0	1688.7	1454.3	1220.6	1053.6	1042.5	1078.9	1269.0
42.5°	1787.9	1809.1	1909.3	1945.7	1853.5	1618.4	1354.8	1188.9	1174.9	1223.8	1403.2
45°	1769.5	1785.2	1901.2	2005.9	1996.5	1803.9	1525.5	1359.0	1353.8	1417.9	1558.0
47.5°	1737.6	1751.8	1863.4	2019.9	2080.6	1973.9	1730.7	1566.8	1576.9	1660.9	1732.7
50°	1754.8	1760.7	1821.1	1984.3	2104.9	2098.5	1959.9	1807.6	1842.0	1946.9	1930.4
52.5°	1752.3	1767.6	1816.2	1925.8	2108.1	2175.4	2185.7	2076.1	2148.6	2269.0	2149.9
55°	1416.7	1444.7	1758.5	1911.0	2119.4	2250.8	2386.7	2359.2	2494.3	2634.6	2397.5
57.5°	1352.8	1370.5	1544.5	1942.0	2179.3	2394.8	2610.3	2670.7	2896.8	3059.7	2699.2
60°	1340.3	1362.1	1542.2	1979.8	2301.0	2629.5	2941.7	3047.9	3386.5	3564.8	3049.1
62.5°	1301.2	1324.8	1527.7	1974.9	2473.7	2954.0	3366.1	3448.9	3850.8	4024.3	3341.7
65°	1177.4	1199.5	1409.6	1895.6	2590.1	3300.5	3868.3	3816.4	4217.4	4347.9	3487.7
66°	1092.6	1114.2	1316.4	1802.2	2563.1	3398.7	4046.2	3930.2	4299.5	4401.7	3459.2
67.5°	937.6	954.5	1135.6	1593.1	2419.4	3426.3	4195.8	4015.7	4308.1	4344.2	3296.3
70°	592.4	597.3	738.1	1099.7	1831.4	2971.5	3968.0	3803.4	3952.8	3855.0	2763.4
72.5°	257.0	255.3	354.3	559.5	1036.8	1993.8	3209.8	3138.3	3100.7	2877.6	1934.4
75°	143.0	145.0	184.0	259.7	421.4	979.4	2099.7	2009.3	1696.5	1447.7	877.1
77.5°	114.7	117.4	152.6	184.3	189.2	341.5	982.5	799.5	481.3	386.2	243.7
80°	90.7	95.6	133.2	143.5	127.5	140.8	317.4	253.8	190.4	174.7	126.3
82.5°	71.7	75.2	114.2	108.6	89.2	94.8	152.1	148.2	123.8	112.8	73.0
85°	51.6	58.0	93.9	81.8	58.5	63.9	101.0	96.8	71.0	58.0	32.2
87.5°	21.1	27.5	66.3	54.3	32.7	29.7	50.4	47.4	33.7	24.6	16.0
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°	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0	741.0
2.5°	740.3	746.2	753.8	758.5	760.9	762.6	765.3	765.1	765.8	766.1	767.1
5°	745.2	755.0	766.1	769.0	769.0	766.3	763.6	759.2	757.5	757.0	757.5
7.5°	758.0	768.8	778.4	774.9	767.6	756.7	742.7	730.5	723.8	721.6	721.1
10°	774.2	787.2	791.1	778.1	756.5	730.5	702.7	682.5	671.0	667.8	666.8
12.5°	793.8	806.1	800.7	773.2	733.2	691.1	652.8	620.6	596.6	588.9	588.4
15°	815.5	825.1	806.1	758.0	698.3	636.4	568.1	512.5	482.6	473.0	472.2
17.5°	835.6	840.5	802.9	731.4	646.9	546.7	456.0	413.3	402.9	405.4	405.9
20°	852.8	852.8	792.1	693.4	566.1	428.5	371.2	370.5	377.9	385.3	386.7
22.5°	871.7	860.4	773.2	639.6	451.6	350.6	342.3	349.1	357.5	365.6	366.8
25°	895.1	866.6	746.9	558.0	355.0	318.4	321.6	327.3	331.4	336.6	337.3
27.5°	921.1	874.4	712.3	445.7	308.1	298.3	300.7	302.7	302.2	304.2	304.7
30°	952.3	883.5	664.9	348.4	288.7	281.1	276.7	274.9	274.9	278.1	279.4
32.5°	994.1	897.0	596.8	298.5	279.4	268.8	254.5	248.2	250.6	261.4	263.9
35°	1040.0	911.5	504.7	281.6	277.4	263.1	241.0	229.2	229.5	239.6	242.7
37.5°	1090.2	930.0	403.7	278.4	281.8	263.4	233.9	217.7	211.1	211.1	212.3
40°	1154.3	948.9	326.8	280.6	291.2	266.3	230.2	208.6	189.9	190.4	191.4
42.5°	1237.8	965.1	285.5	285.3	302.5	270.3	230.0	196.6	180.3	191.4	201.5
45°	1330.7	973.2	267.3	289.4	311.5	272.7	226.0	194.6	181.6	214.5	233.7
47.5°	1437.6	968.5	257.2	290.9	313.8	272.7	221.6	199.3	190.2	248.4	270.8
50°	1554.8	955.0	247.4	288.0	313.0	272.2	225.8	203.9	193.4	254.3	269.8
52.5°	1692.6	943.7	237.1	281.6	307.9	269.5	230.7	202.0	183.3	231.2	242.0
55°	1849.9	946.9	225.6	272.5	299.8	264.4	229.0	194.1	172.7	203.7	210.3
57.5°	2050.8	985.0	211.8	260.9	288.7	255.8	222.8	190.4	169.5	184.8	188.7
60°	2275.2	1051.3	194.6	249.4	274.9	242.0	218.2	192.1	171.0	183.3	185.3
62.5°	2439.8	1089.9	179.9	232.4	256.3	226.8	212.3	194.3	174.9	188.5	188.0
65°	2484.5	1026.5	161.4	207.6	231.0	210.8	204.9	196.8	176.7	192.6	190.4
66°	2421.8	958.2	153.3	196.1	218.2	202.9	201.2	196.6	175.9	193.1	189.4
67.5°	2269.8	818.2	139.3	179.1	197.8	191.2	195.3	194.3	174.0	192.6	187.5
70°	1851.1	558.2	119.2	149.1	164.6	168.3	184.0	186.5	167.6	184.0	172.7
72.5°	1293.4	340.0	105.4	115.7	133.2	143.5	168.5	175.7	159.0	160.7	149.9
75°	625.1	180.6	95.6	89.7	103.4	119.9	149.9	160.9	145.5	134.4	130.5
77.5°	194.8	110.3	81.1	72.2	81.1	96.8	125.3	141.0	129.5	112.5	111.1
80°	104.7	81.1	62.4	58.0	64.1	75.9	98.5	117.7	111.3	101.0	90.2
82.5°	69.0	52.6	46.2	45.0	48.9	58.0	73.2	97.5	97.5	86.5	62.9
85°	35.6	32.2	31.7	31.7	34.2	38.6	49.9	75.2	80.1	45.7	37.8
87.5°	17.7	18.4	17.2	17.9	19.2	18.9	23.8	37.8	45.2	27.8	23.1
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)