

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: P269029

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269029
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 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: 5535.5 lumens
Efficiency: N/A
Efficacy: 93.8 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

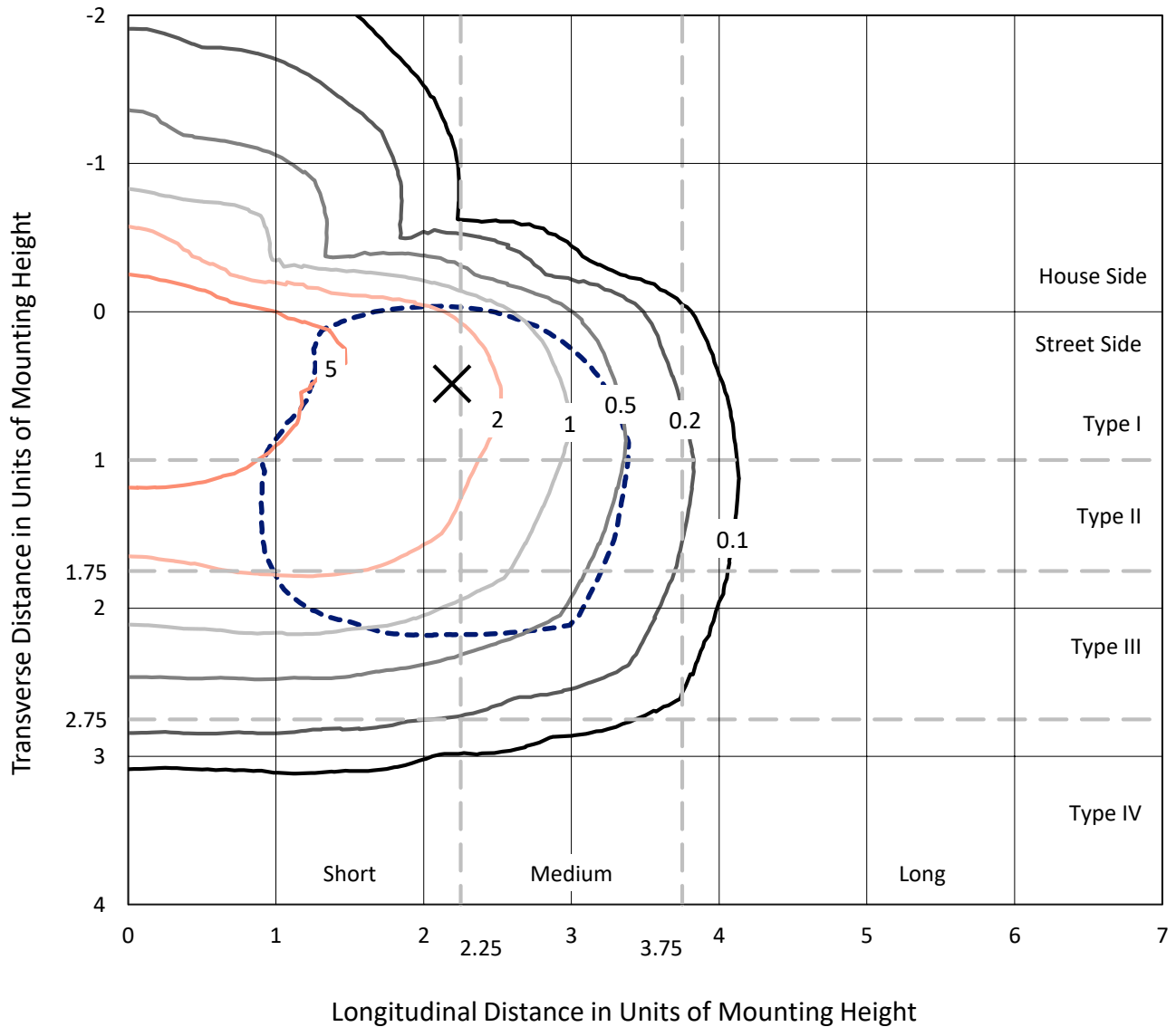
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

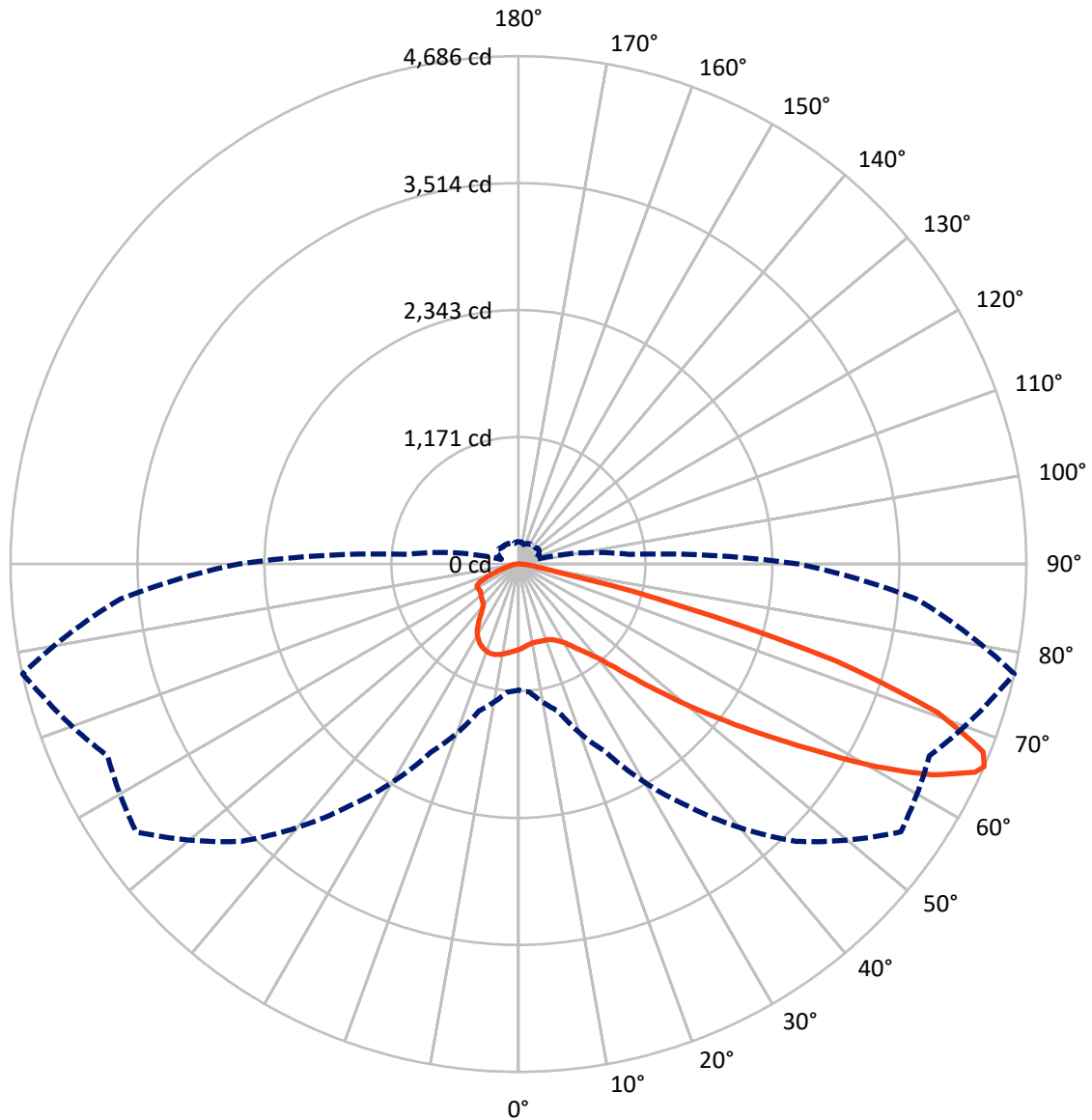
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.7 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	945.7	0.0	945.7
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	4589.8	0.0	4589.8
	% Fixture	82.9	0.0	82.9
Total	Lumens	5535.5	0.0	5535.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	1.3
10°-20°	198.8	3.6
20°-30°	339.3	6.1
30°-40°	543.2	9.8
40°-50°	839.2	15.2
50°-60°	1190.3	21.5
60°-70°	1592.3	28.8
70°-80°	691.5	12.5
80°-90°	70.5	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°	5535.5	100.0
0°-180°	5535.5	100.0



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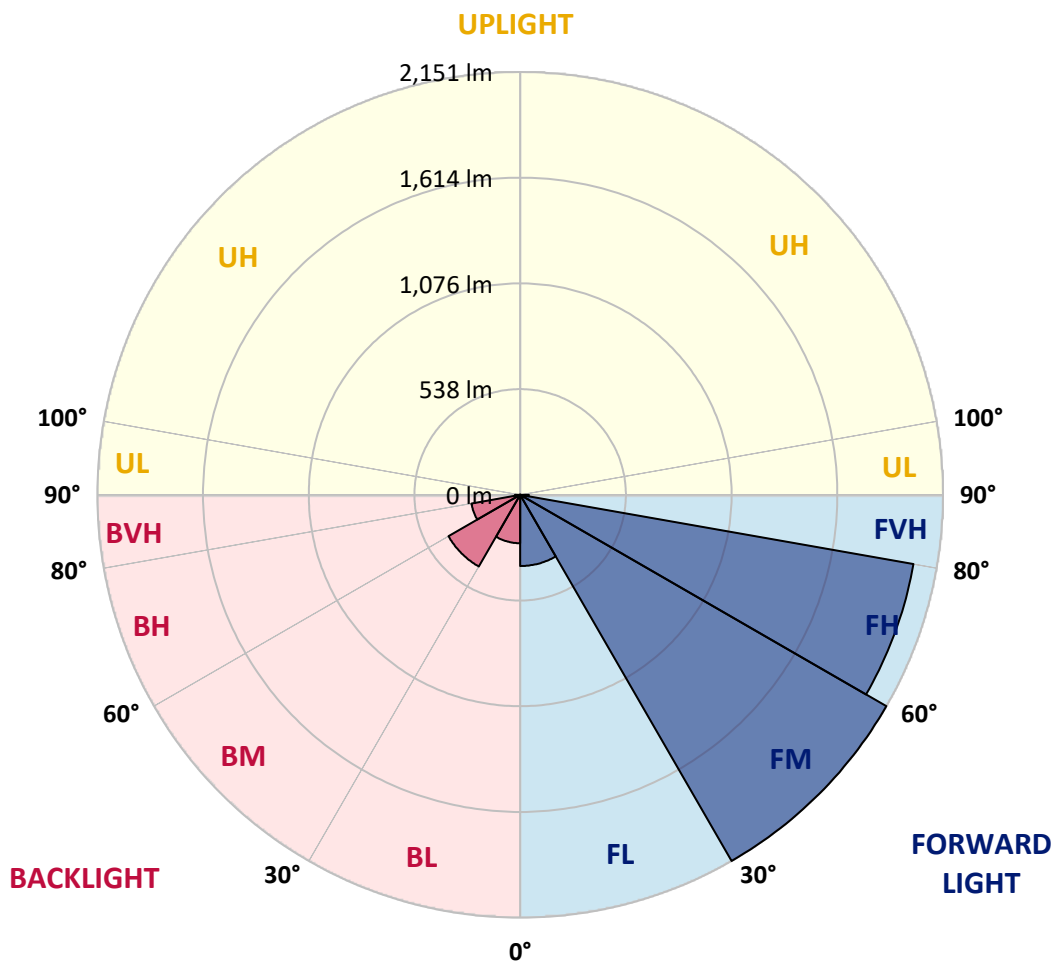
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	362.3	6.5			
FM	(30°-60°)	2151.4	38.9			
FH	(60°-80°)	2031.9	36.7			G2/5000
FVH	(80°-90°)	44.2	0.8			G1/100
BL	(0°-30°)	246.3	4.4	B1/500		
BM	(30°-60°)	421.3	7.6	B1/1000		
BH	(60°-80°)	251.9	4.5	B1/500		G1/500
BVH	(80°-90°)	26.3	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°	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8
2.5°	697.9	702.6	706.4	710.1	717.4	729.5	743.3	754.5	770.7	773.9	782.6
5°	633.8	633.8	636.9	642.4	652.3	670.3	689.2	714.3	749.6	758.0	780.9
7.5°	602.7	602.9	604.6	609.4	618.0	634.6	655.3	684.8	732.6	746.5	785.7
10°	614.1	611.4	607.7	605.3	606.5	616.1	635.8	668.8	722.1	739.9	796.2
12.5°	678.5	673.5	659.9	641.8	624.6	617.6	629.1	661.2	717.7	738.3	810.0
15°	783.6	781.5	756.2	718.7	677.0	641.8	634.1	658.3	718.3	740.3	826.5
17.5°	915.5	912.6	879.1	824.6	756.5	688.1	651.5	660.7	720.0	743.3	842.5
20°	1048.5	1039.7	1003.5	938.6	851.1	751.3	680.6	666.7	722.3	746.8	859.1
22.5°	1147.9	1140.7	1108.1	1045.2	944.2	824.1	719.5	677.1	730.1	756.6	879.9
25°	1235.3	1235.9	1203.6	1142.7	1038.4	901.5	769.8	705.2	749.4	777.0	908.0
27.5°	1343.3	1337.0	1306.9	1246.6	1131.4	979.8	830.5	743.5	778.1	806.0	945.2
30°	1472.5	1468.1	1433.3	1364.7	1234.8	1063.8	899.7	788.4	815.2	844.2	994.0
32.5°	1624.6	1622.3	1586.2	1498.2	1354.0	1162.5	981.0	847.5	870.6	900.8	1063.8
35°	1802.9	1803.2	1760.5	1654.6	1484.5	1277.7	1073.5	923.5	938.2	969.6	1146.9
37.5°	1912.8	1926.1	1910.2	1802.1	1632.3	1406.3	1193.2	1024.4	1015.1	1046.7	1236.1
40°	1936.2	1952.5	2003.0	1948.1	1797.7	1548.0	1299.4	1121.5	1109.8	1148.5	1351.0
42.5°	1903.2	1925.7	2032.5	2071.2	1973.1	1722.9	1442.1	1265.6	1250.7	1302.8	1493.7
45°	1883.7	1900.5	2023.9	2135.4	2125.4	1920.3	1624.0	1446.6	1441.2	1509.4	1658.5
47.5°	1849.7	1864.9	1983.5	2150.3	2214.9	2101.3	1842.3	1668.0	1678.7	1768.1	1844.5
50°	1868.0	1874.4	1938.6	2112.4	2240.7	2233.9	2086.5	1924.2	1960.9	2072.5	2055.1
52.5°	1865.4	1881.6	1933.4	2050.0	2244.1	2315.8	2326.8	2210.1	2287.3	2415.5	2288.6
55°	1508.2	1537.9	1872.0	2034.3	2256.2	2396.0	2540.8	2511.4	2655.3	2804.6	2552.3
57.5°	1440.2	1458.9	1644.1	2067.3	2320.0	2549.4	2778.7	2843.0	3083.7	3257.2	2873.4
60°	1426.8	1450.0	1641.7	2107.7	2449.5	2799.2	3131.6	3244.6	3605.0	3794.9	3245.8
62.5°	1385.1	1410.2	1626.3	2102.4	2633.3	3144.6	3583.2	3671.5	4099.3	4283.9	3557.4
65°	1253.3	1276.9	1500.4	2018.0	2757.3	3513.5	4117.9	4062.8	4489.5	4628.4	3712.8
66°	1163.1	1186.1	1401.4	1918.5	2728.5	3618.1	4307.3	4183.8	4577.0	4685.6	3682.4
67.5°	998.0	1016.2	1208.8	1695.9	2575.5	3647.4	4466.6	4274.9	4586.0	4624.6	3509.0
70°	630.6	635.8	785.7	1170.8	1949.6	3163.2	4224.1	4048.8	4207.9	4103.7	2941.7
72.5°	273.5	271.7	377.2	595.5	1103.7	2122.4	3417.0	3340.7	3300.8	3063.3	2059.3
75°	152.3	154.2	195.9	276.5	448.6	1042.6	2235.3	2139.0	1806.0	1541.0	933.8
77.5°	122.1	125.0	162.5	196.2	201.4	363.5	1045.9	851.1	512.4	411.2	259.5
80°	96.5	101.8	141.8	152.7	135.7	149.8	337.9	270.2	202.7	185.9	134.4
82.5°	76.4	79.9	121.6	115.6	95.0	101.0	162.0	157.7	131.8	120.1	77.7
85°	54.9	61.8	99.9	87.0	62.3	68.0	107.4	103.0	75.5	61.8	34.2
87.5°	22.5	29.3	70.6	57.9	34.8	31.6	53.5	50.5	35.8	26.1	17.0
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°	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8	788.8
2.5°	788.1	794.3	802.5	807.3	810.0	811.9	814.8	814.5	815.2	815.5	816.6
5°	793.4	803.8	815.5	818.6	818.6	815.8	812.8	808.1	806.4	805.8	806.4
7.5°	806.9	818.4	828.5	825.0	817.1	805.6	790.7	777.7	770.6	768.2	767.6
10°	824.1	837.9	842.3	828.3	805.3	777.7	748.1	726.5	714.3	710.9	709.8
12.5°	845.0	858.2	852.4	823.0	780.4	735.7	695.0	660.7	635.0	626.9	626.4
15°	868.1	878.4	858.2	806.9	743.3	677.4	604.6	545.6	513.7	503.5	502.7
17.5°	889.5	894.8	854.7	778.7	688.7	581.9	485.4	439.9	428.9	431.5	432.1
20°	907.8	907.8	843.2	738.0	602.7	456.2	395.3	394.4	402.4	410.2	411.8
22.5°	927.9	915.9	823.0	680.8	480.8	373.2	364.4	371.7	380.5	389.1	390.6
25°	952.8	922.5	795.1	594.0	377.9	339.0	342.3	348.5	352.9	358.3	359.1
27.5°	980.6	930.9	758.2	474.5	328.1	317.6	320.2	322.2	321.8	323.7	324.3
30°	1013.7	940.5	707.8	370.9	307.3	299.2	294.6	292.7	292.7	296.1	297.3
32.5°	1058.3	954.9	635.3	317.8	297.3	286.1	271.0	264.2	266.7	278.3	280.9
35°	1107.2	970.3	537.2	299.8	295.4	280.1	256.6	244.0	244.2	254.9	258.4
37.5°	1160.5	990.0	429.7	296.4	300.0	280.5	249.0	231.8	224.7	224.7	226.0
40°	1228.8	1010.1	347.9	298.6	309.9	283.5	245.1	222.1	202.2	202.7	203.7
42.5°	1317.8	1027.4	303.9	303.6	322.0	287.6	244.8	209.2	192.0	203.7	214.4
45°	1416.5	1036.0	284.6	308.1	331.7	290.3	240.7	207.1	193.2	228.3	248.7
47.5°	1530.4	1031.1	273.9	309.6	334.0	290.3	236.0	212.1	202.5	264.5	288.3
50°	1655.0	1016.6	263.5	306.5	333.2	289.9	240.3	217.1	205.8	270.7	287.2
52.5°	1801.8	1004.7	252.5	299.8	327.7	286.9	245.5	215.1	195.1	246.1	257.6
55°	1969.3	1008.0	240.0	290.1	319.1	281.3	243.8	206.6	183.9	216.9	223.9
57.5°	2183.2	1048.5	225.5	277.8	307.3	272.2	237.2	202.7	180.5	196.6	201.0
60°	2422.0	1119.2	207.1	265.4	292.7	257.6	232.2	204.5	182.0	195.1	197.2
62.5°	2597.2	1160.3	191.5	247.5	272.7	241.5	226.0	206.9	186.2	200.6	200.1
65°	2644.8	1092.8	171.8	221.1	245.9	224.3	218.2	209.6	188.0	205.1	202.7
66°	2578.1	1020.0	163.2	208.8	232.2	216.0	214.2	209.2	187.2	205.6	201.7
67.5°	2416.3	870.9	148.3	190.7	210.6	203.5	208.0	206.9	185.2	205.1	199.6
70°	1970.5	594.3	126.8	158.8	175.2	179.1	195.9	198.5	178.4	195.9	183.9
72.5°	1376.8	361.9	112.2	123.2	141.8	152.7	179.4	186.9	169.2	171.0	159.5
75°	665.4	192.2	101.8	95.5	110.1	127.6	159.5	171.2	154.9	143.1	138.9
77.5°	207.4	117.5	86.2	76.8	86.2	103.0	133.4	150.1	137.8	119.8	118.2
80°	111.4	86.2	66.5	61.8	68.4	80.8	104.9	125.3	118.4	107.4	95.9
82.5°	73.5	56.0	49.1	47.9	52.0	61.8	78.0	103.8	103.8	92.0	67.0
85°	37.9	34.2	33.7	33.7	36.3	41.1	53.1	79.9	85.2	48.7	40.2
87.5°	18.9	19.7	18.3	19.1	20.4	20.1	25.3	40.2	48.1	29.6	24.6
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)