

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: P191489

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191489  
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  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 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: 6518.2 lumens  
Efficiency: N/A  
Efficacy: 110.5 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 - 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

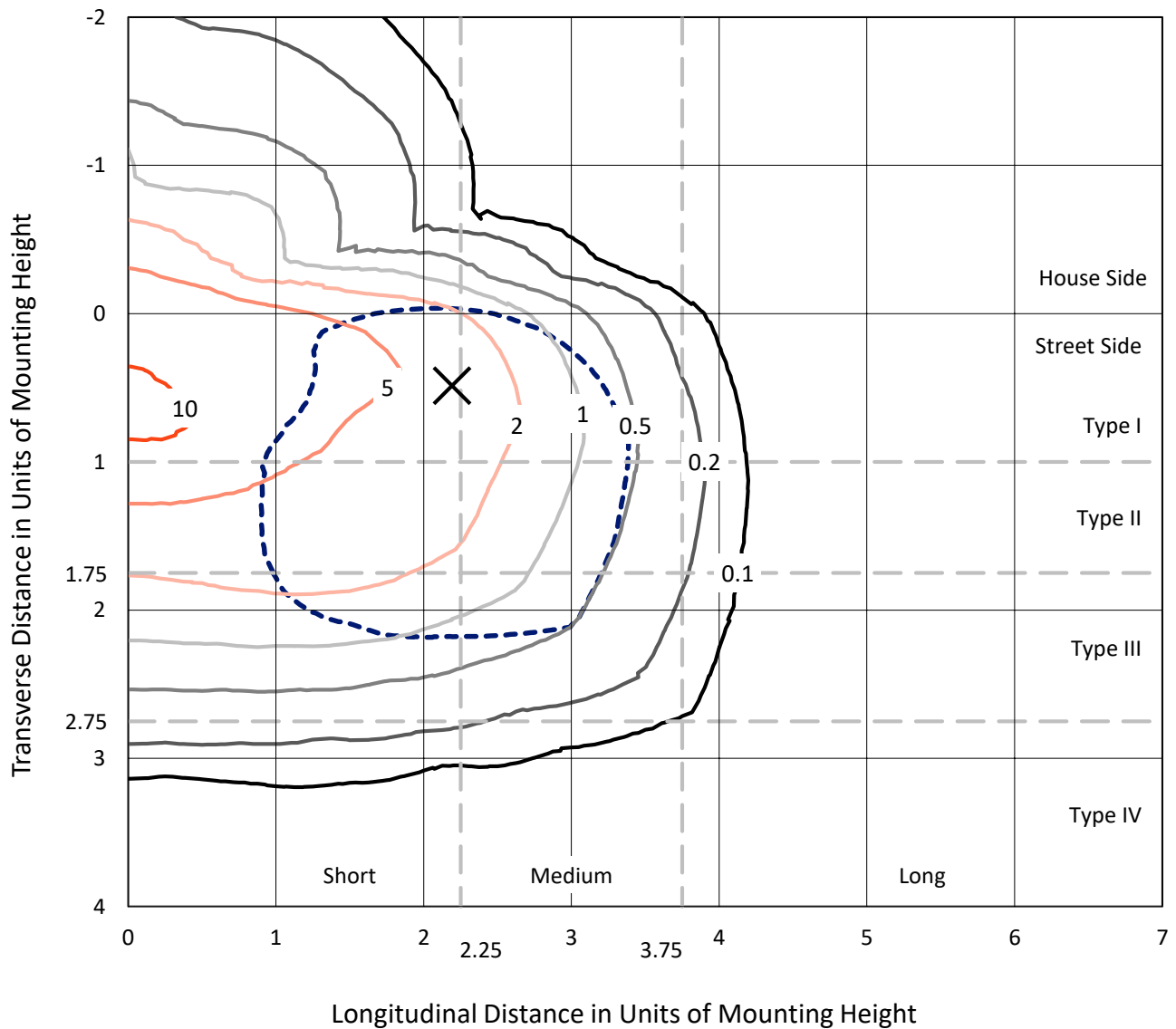


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

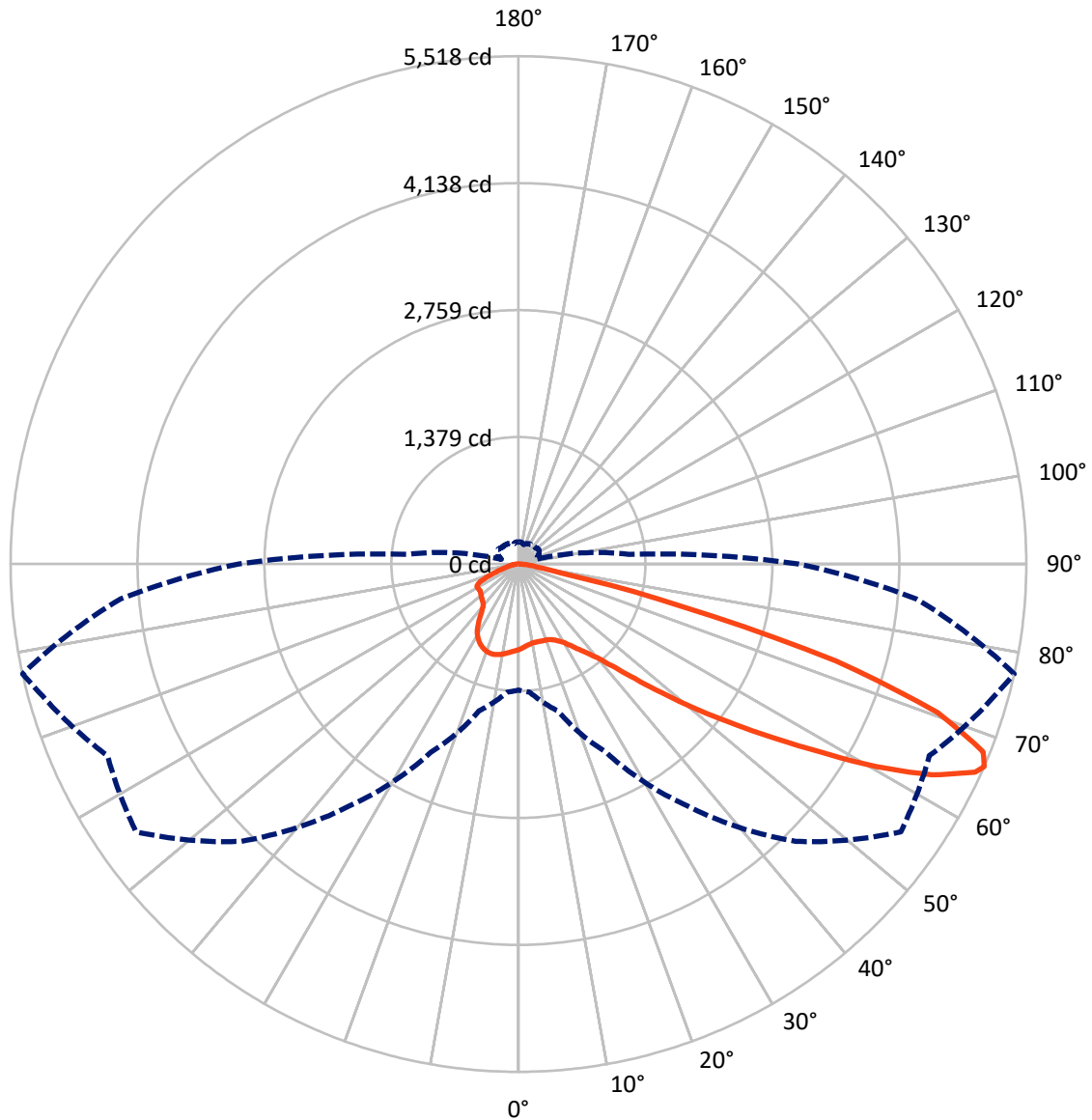


Based on 10 foot mounting height. Maximum calculated value = 11.4 fc  
 Type III - Short - Full Cutoff

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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
<b>House Side</b>	Lumens	1113.6	0.0	1113.6
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	5404.6	0.0	5404.6
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	6518.2	0.0	6518.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.0	1.3
10°-20°	234.1	3.6
20°-30°	399.6	6.1
30°-40°	639.6	9.8
40°-50°	988.2	15.2
50°-60°	1401.6	21.5
60°-70°	1874.9	28.8
70°-80°	814.2	12.5
80°-90°	83.0	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°	6518.2	100.0
0°-180°	6518.2	100.0



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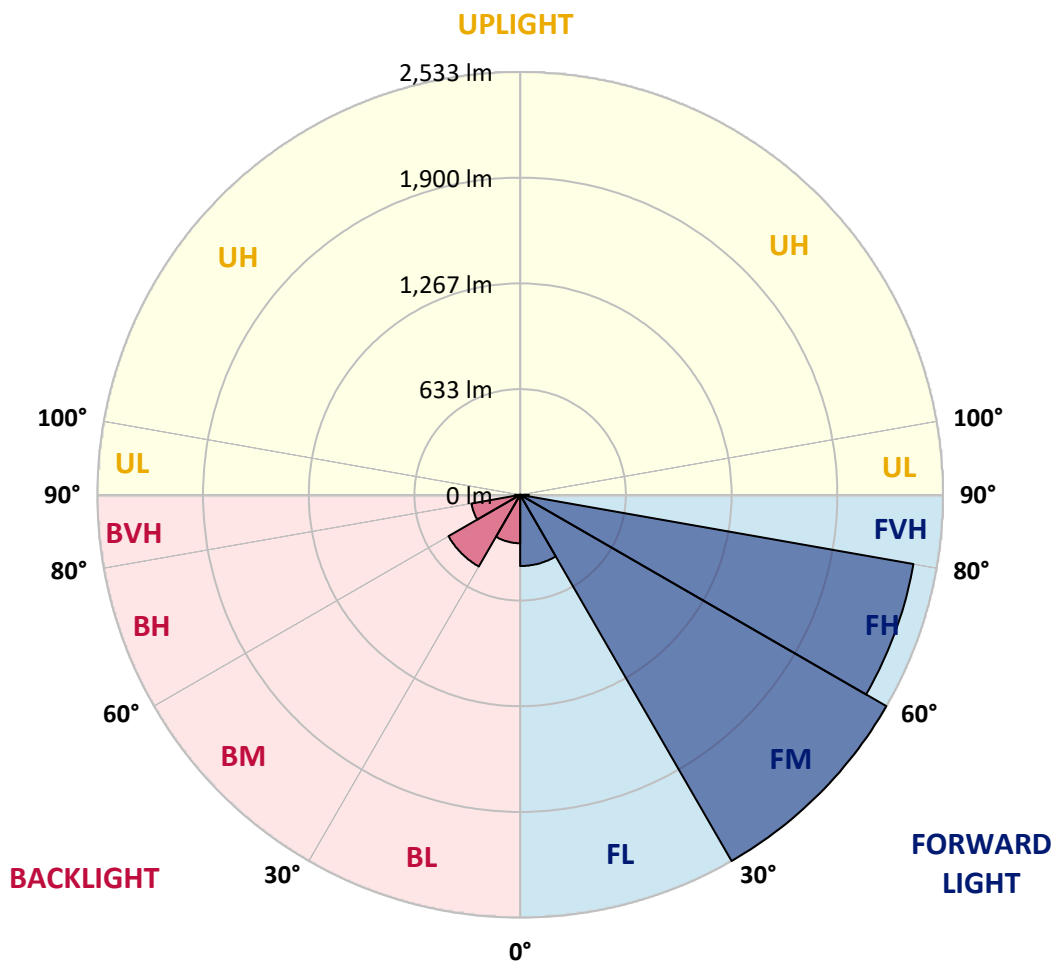
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	426.6	6.5			
FM (30°-60°)	2533.3	38.9			
FH (60°-80°)	2392.6	36.7			G2/5000
FVH (80°-90°)	52.1	0.8			G1/100
BL (0°-30°)	290.0	4.4	B1/500		
BM (30°-60°)	496.0	7.6	B1/1000		
BH (60°-80°)	296.6	4.5	B1/500		G1/500
BVH (80°-90°)	31.0	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	928.8	928.8	928.8	928.8	928.8	928.8	928.8	928.8	928.8	928.8	928.8
2.5°	821.7	827.3	831.9	836.2	844.8	859.0	875.3	888.5	907.7	911.3	921.5
5°	746.2	746.2	749.9	756.4	768.1	789.4	811.5	841.1	882.7	892.5	919.6
7.5°	709.6	709.9	712.1	717.6	727.7	747.2	771.5	806.3	862.7	879.0	925.2
10°	723.1	720.1	715.5	712.7	714.2	725.6	748.7	787.5	850.4	871.2	937.5
12.5°	798.9	793.1	777.0	755.8	735.5	727.1	740.7	778.6	845.1	869.4	953.8
15°	922.7	920.2	890.4	846.4	797.1	755.8	746.5	775.2	845.8	871.6	973.2
17.5°	1078.0	1074.5	1035.1	971.1	890.7	810.3	767.2	778.0	847.9	875.3	992.1
20°	1234.7	1224.3	1181.7	1105.4	1002.2	884.5	801.4	785.0	850.7	879.3	1011.7
22.5°	1351.7	1343.1	1305.0	1230.7	1111.8	970.5	847.3	797.4	859.6	891.0	1036.0
25°	1454.6	1455.2	1417.3	1345.6	1222.7	1061.6	906.4	830.3	882.4	915.0	1069.3
27.5°	1581.8	1574.4	1539.0	1467.8	1332.3	1153.7	977.8	875.6	916.3	949.2	1113.1
30°	1733.9	1728.7	1687.8	1607.1	1454.0	1252.6	1059.5	928.2	959.9	994.2	1170.4
32.5°	1912.9	1910.5	1867.9	1764.2	1594.5	1369.0	1155.2	997.9	1025.3	1060.7	1252.6
35°	2122.9	2123.2	2073.0	1948.3	1748.1	1504.5	1264.0	1087.5	1104.8	1141.7	1350.5
37.5°	2252.3	2268.0	2249.2	2122.0	1922.1	1656.1	1405.0	1206.4	1195.3	1232.6	1455.6
40°	2280.1	2299.1	2358.5	2293.9	2116.8	1823.0	1530.0	1320.6	1306.8	1352.3	1590.7
42.5°	2241.2	2267.7	2393.3	2438.9	2323.4	2028.7	1698.2	1490.3	1472.7	1534.1	1758.9
45°	2218.1	2237.8	2383.2	2514.4	2502.6	2261.2	1912.3	1703.4	1697.0	1777.4	1952.9
47.5°	2178.1	2196.0	2335.7	2531.9	2608.0	2474.3	2169.5	1964.1	1976.6	2082.0	2171.9
50°	2199.7	2207.0	2282.8	2487.3	2638.5	2630.5	2456.8	2265.8	2309.0	2440.5	2419.8
52.5°	2196.6	2215.6	2276.6	2414.0	2642.5	2726.9	2739.9	2602.5	2693.3	2844.2	2694.9
55°	1775.8	1810.9	2204.3	2395.5	2656.7	2821.4	2991.7	2957.2	3126.6	3302.5	3005.3
57.5°	1695.7	1717.9	1936.0	2434.3	2731.8	3002.0	3272.0	3347.8	3631.2	3835.3	3383.5
60°	1680.1	1707.5	1933.2	2481.8	2884.3	3296.0	3687.5	3820.5	4244.9	4468.6	3822.1
62.5°	1631.1	1660.7	1915.1	2475.5	3100.8	3702.9	4219.4	4323.2	4827.0	5044.5	4188.9
65°	1475.8	1503.5	1766.9	2376.1	3246.7	4137.1	4848.9	4783.9	5286.5	5450.1	4371.9
66°	1369.6	1396.7	1650.2	2259.1	3212.9	4260.4	5071.9	4926.5	5389.4	5517.5	4336.1
67.5°	1175.3	1196.5	1423.5	1997.0	3032.7	4294.9	5259.4	5033.7	5400.2	5445.5	4131.9
70°	742.6	748.7	925.2	1378.5	2295.7	3724.8	4974.0	4767.6	4954.9	4832.3	3463.9
72.5°	322.1	320.0	444.1	701.2	1299.7	2499.3	4023.5	3933.9	3886.8	3607.1	2424.8
75°	179.2	181.7	230.7	325.5	528.1	1227.6	2632.1	2518.7	2126.6	1814.6	1099.5
77.5°	143.8	147.2	191.3	231.0	237.1	428.1	1231.6	1002.2	603.3	484.2	305.6
80°	113.6	119.8	166.9	179.8	159.9	176.5	397.9	318.1	238.7	219.0	158.4
82.5°	89.9	94.2	143.2	136.2	111.8	118.9	190.7	185.7	155.2	141.4	91.5
85°	64.7	72.7	117.6	102.6	73.3	80.1	126.5	121.3	89.0	72.7	40.3
87.5°	26.5	34.5	83.2	68.0	40.9	37.2	63.1	59.4	42.1	30.8	20.0
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°	928.8	928.8	928.8	928.8	928.8	928.8	928.8	928.8	928.8	928.8	928.8
2.5°	927.9	935.4	944.9	950.7	953.8	955.9	959.3	959.0	959.9	960.2	961.6
5°	934.2	946.4	960.2	964.0	964.0	960.7	957.2	951.7	949.5	948.9	949.5
7.5°	950.1	963.7	975.7	971.4	962.2	948.6	931.0	915.6	907.4	904.6	904.0
10°	970.5	986.7	991.8	975.4	948.3	915.6	880.9	855.6	841.1	837.1	835.9
12.5°	995.1	1010.5	1003.7	969.2	919.0	866.3	818.4	778.0	747.8	738.3	737.6
15°	1022.2	1034.2	1010.5	950.1	875.3	797.7	712.1	642.4	604.9	592.9	592.0
17.5°	1047.5	1053.6	1006.5	916.9	810.9	685.3	571.6	518.0	505.1	508.2	508.8
20°	1069.0	1069.0	993.0	869.1	709.6	537.2	465.3	464.4	473.7	482.9	484.8
22.5°	1092.7	1078.6	969.2	801.7	566.1	439.5	429.0	437.6	448.2	458.3	459.8
25°	1122.0	1086.3	936.3	699.4	445.1	399.2	403.1	410.2	415.4	422.0	422.9
27.5°	1154.6	1096.1	892.8	558.6	386.2	373.9	377.0	379.4	378.8	381.3	381.9
30°	1193.8	1107.5	833.4	436.7	361.9	352.3	346.8	344.6	344.6	348.6	350.2
32.5°	1246.1	1124.4	748.1	374.2	350.2	337.0	319.1	311.1	314.1	327.7	330.8
35°	1303.6	1142.6	632.6	352.9	347.7	329.9	302.2	287.3	287.7	300.2	304.3
37.5°	1366.6	1165.8	506.1	348.9	353.2	330.2	293.2	272.9	264.5	264.5	266.1
40°	1446.9	1189.4	409.6	351.7	365.0	333.9	288.6	261.5	238.0	238.7	239.9
42.5°	1551.6	1209.7	357.8	357.5	379.1	338.8	288.3	246.4	226.1	239.9	252.6
45°	1668.0	1220.0	335.1	362.8	390.6	341.9	283.4	244.0	227.6	268.8	292.9
47.5°	1802.0	1214.0	322.4	364.7	393.3	341.9	277.8	249.8	238.3	311.4	339.4
50°	1948.9	1197.2	310.2	361.0	392.4	341.3	283.1	255.6	242.3	318.8	338.2
52.5°	2121.7	1182.9	297.2	352.9	385.9	337.9	289.2	253.2	229.8	289.8	303.4
55°	2318.8	1186.9	282.7	341.6	375.7	331.4	287.0	243.3	216.6	255.3	263.6
57.5°	2570.8	1234.7	265.5	327.0	361.9	320.6	279.4	238.7	212.5	231.6	236.5
60°	2851.9	1317.9	244.0	312.6	344.6	303.4	273.5	240.8	214.3	229.8	232.2
62.5°	3058.3	1366.3	225.5	291.3	321.2	284.3	266.1	243.6	219.3	236.2	235.6
65°	3114.4	1286.8	202.3	260.2	289.5	264.2	256.9	246.7	221.5	241.4	238.7
66°	3035.8	1201.1	192.2	245.8	273.5	254.4	252.3	246.4	220.5	242.0	237.4
67.5°	2845.1	1025.6	174.6	224.5	248.0	239.6	244.9	243.6	218.1	241.4	235.0
70°	2320.4	699.7	149.4	187.0	206.3	210.9	230.7	233.7	210.0	230.7	216.6
72.5°	1621.3	426.3	132.2	145.1	166.9	179.8	211.2	220.2	199.3	201.4	187.9
75°	783.5	226.4	119.8	112.4	129.7	150.3	187.9	201.7	182.3	168.5	163.6
77.5°	244.3	138.3	101.7	90.5	101.7	121.3	157.0	176.8	162.3	141.1	139.2
80°	131.2	101.7	78.3	72.7	80.4	95.1	123.5	147.5	139.5	126.5	113.0
82.5°	86.5	65.9	57.9	56.4	61.3	72.7	91.8	122.2	122.2	108.4	78.9
85°	44.7	40.3	39.7	39.7	42.8	48.4	62.5	94.2	100.5	57.3	47.5
87.5°	22.2	23.1	21.6	22.5	24.0	23.7	29.9	47.5	56.7	34.8	28.9
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)