

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: P382815

Luminaire Tested: **GLEON-SA1D-735-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382815  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA1D-735-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7568.8 lumens  
Efficiency: N/A  
Efficacy: 113.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

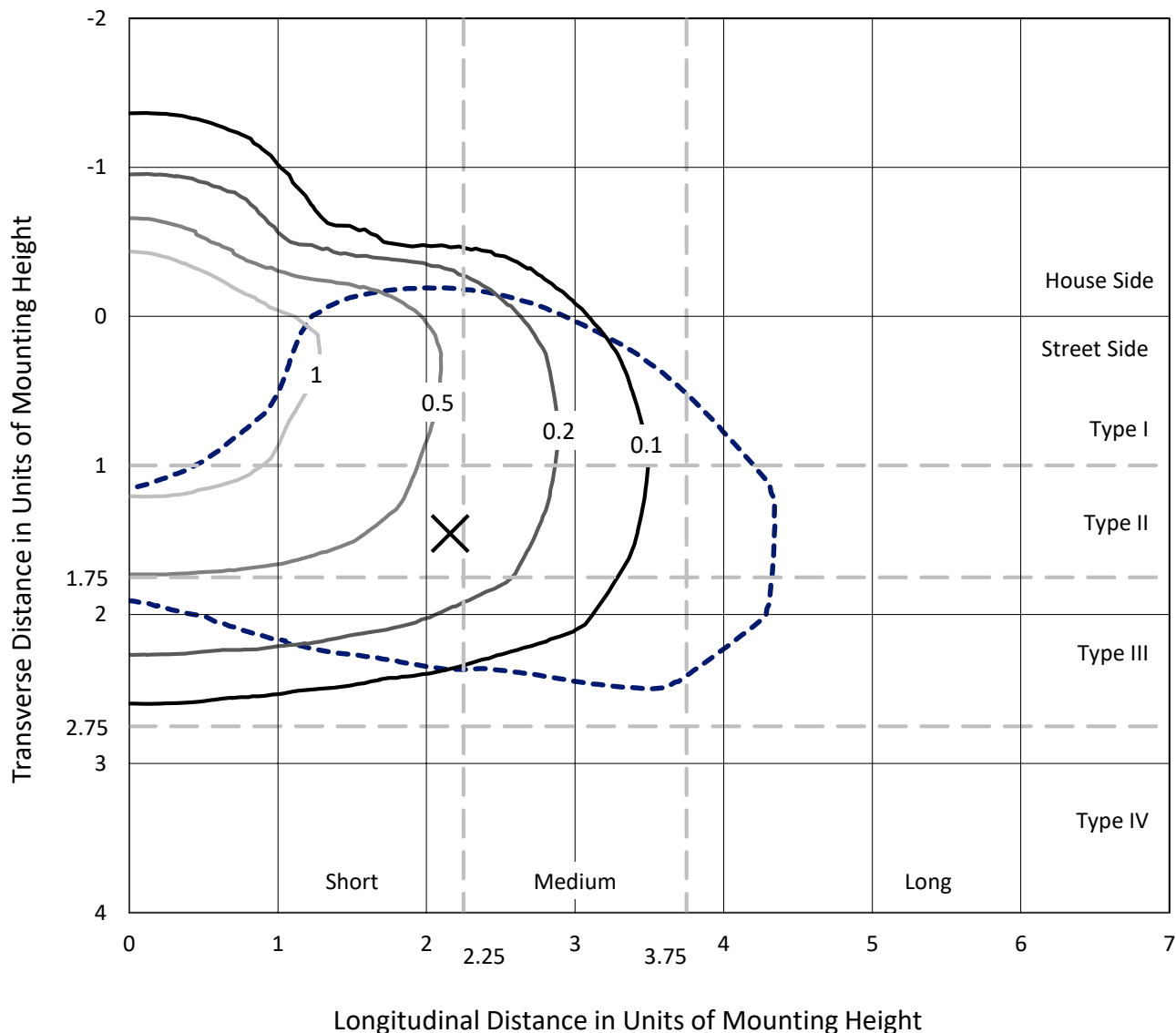
Input Watts (W): 67  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

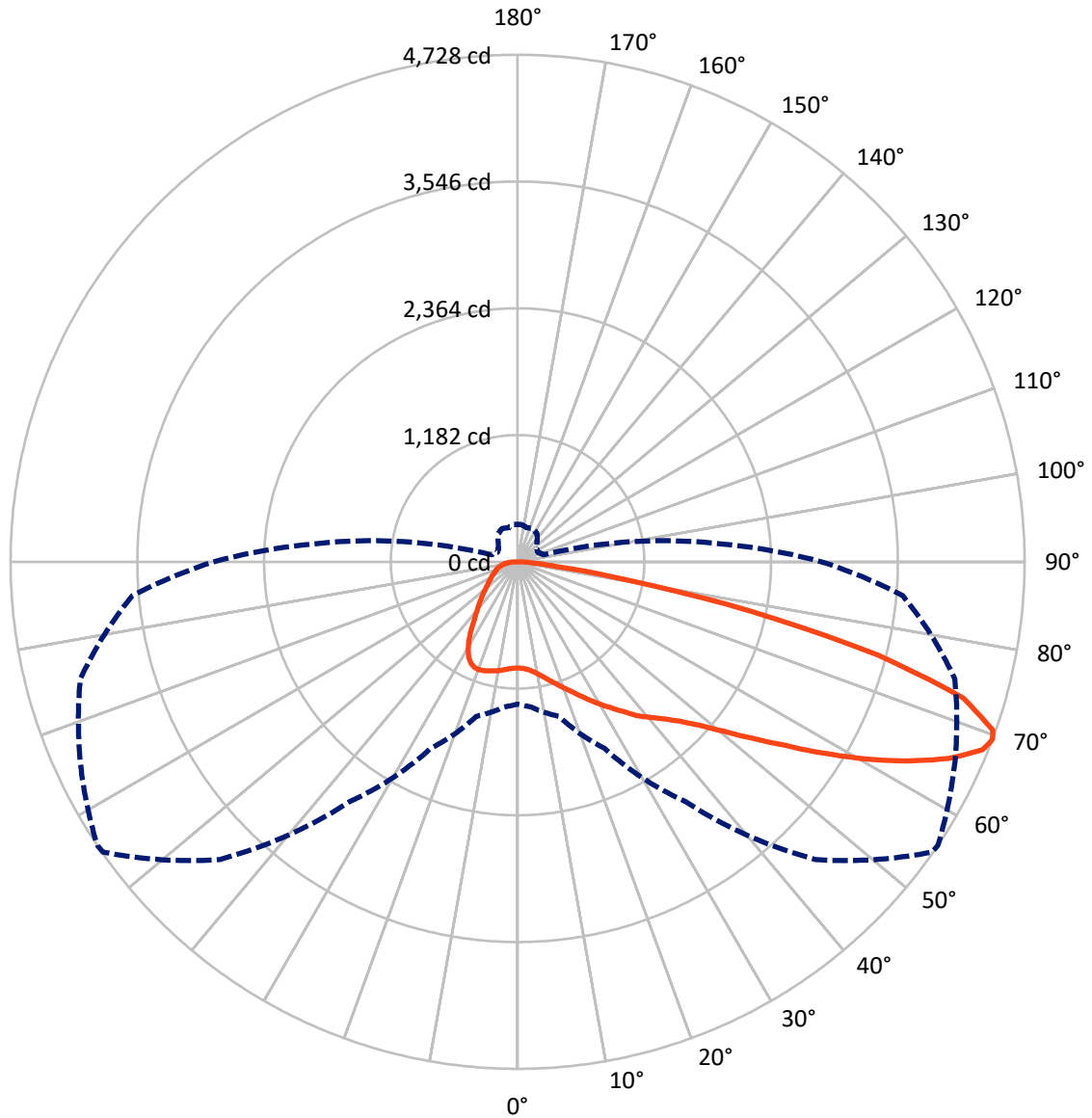
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1685.6	0.0	1685.6
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	5883.3	0.0	5883.3
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	7568.8	0.0	7568.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.2	1.3
10°-20°	312.5	4.1
20°-30°	545.5	7.2
30°-40°	783.6	10.4
40°-50°	1084.5	14.3
50°-60°	1588.9	21.0
60°-70°	1937.2	25.6
70°-80°	1071.0	14.2
80°-90°	148.3	2.0
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°	7568.8	100.0
0°-180°	7568.8	100.0



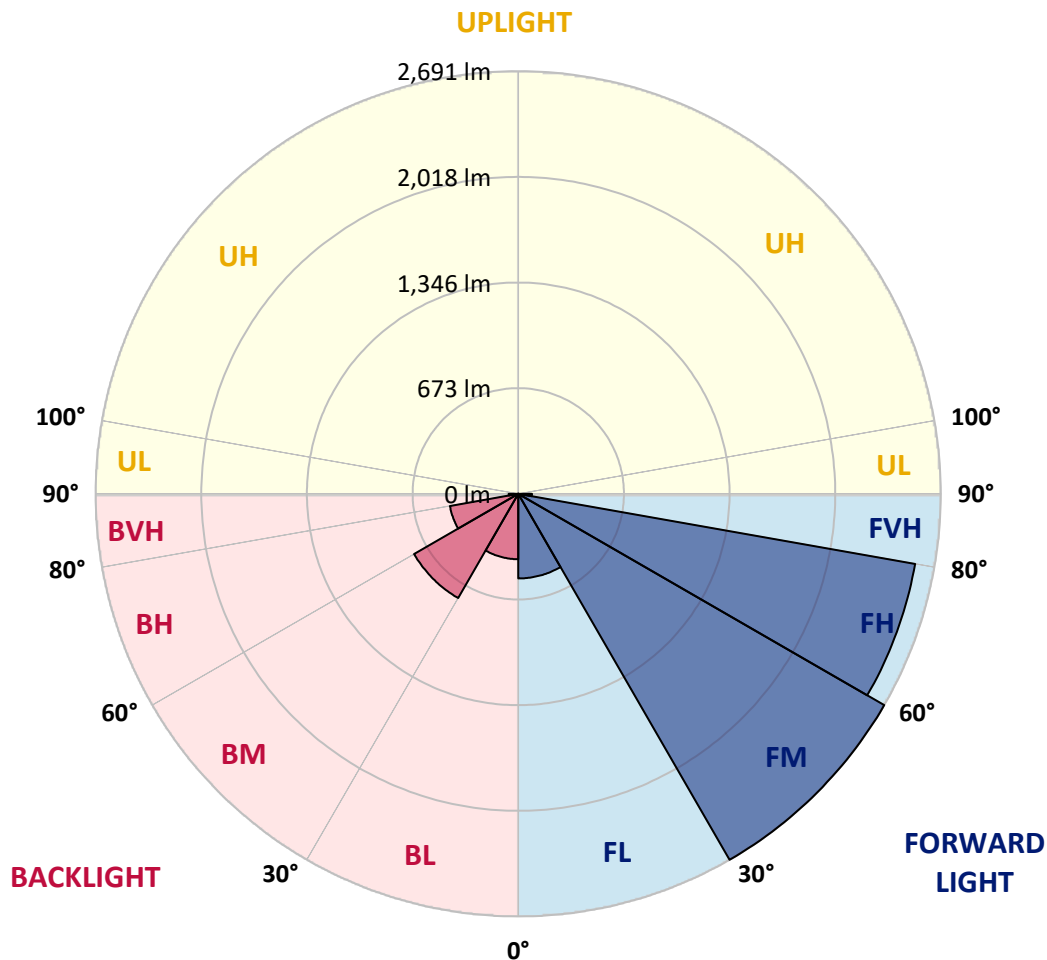
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	538.7	7.1			
FM (30°-60°)	2691.0	35.6			
FH (60°-80°)	2566.2	33.9			G2/5000
FVH (80°-90°)	87.4	1.2			G1/100
BL (0°-30°)	416.5	5.5	B1/500		
BM (30°-60°)	766.1	10.1	B1/1000		
BH (60°-80°)	442.0	5.8	B1/500		G1/500
BVH (80°-90°)	61.0	0.8			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°	56°	65°	75°	85°
0°	989.5	989.5	989.5	989.5	989.5	989.5	989.5	989.5	989.5	989.5	989.5
2.5°	995.7	996.8	996.0	998.2	995.7	997.3	996.0	996.0	995.3	992.9	990.3
5°	1011.4	1013.5	1012.2	1014.3	1011.4	1011.9	1009.6	1009.6	1007.3	1002.3	997.0
7.5°	1035.9	1038.3	1037.2	1039.3	1035.4	1035.4	1032.2	1032.0	1027.3	1019.2	1013.2
10°	1065.1	1068.3	1067.2	1070.3	1067.2	1068.3	1065.1	1065.1	1058.9	1047.4	1039.8
12.5°	1107.6	1111.5	1108.6	1108.4	1107.1	1109.2	1106.6	1106.0	1100.3	1084.7	1074.3
15°	1164.4	1168.6	1162.7	1162.1	1154.8	1154.0	1154.0	1153.3	1149.6	1130.8	1113.7
17.5°	1229.9	1231.2	1226.0	1217.6	1208.3	1202.3	1201.5	1203.6	1203.6	1181.7	1154.3
20°	1294.0	1296.4	1292.2	1282.8	1270.8	1262.0	1255.7	1259.9	1259.6	1233.6	1194.7
22.5°	1364.0	1369.4	1363.1	1351.1	1337.1	1327.2	1316.2	1319.9	1320.1	1288.1	1234.3
25°	1454.4	1449.5	1445.6	1428.6	1408.5	1398.3	1388.2	1391.8	1390.8	1346.7	1275.3
27.5°	1534.4	1535.5	1530.3	1512.3	1489.1	1466.6	1466.2	1468.5	1464.6	1407.8	1313.9
30°	1627.5	1628.1	1620.8	1604.6	1579.3	1550.4	1543.6	1547.5	1539.2	1465.6	1354.6
32.5°	1720.1	1722.7	1714.6	1695.0	1674.7	1639.5	1626.0	1628.6	1607.8	1524.9	1396.5
35°	1801.2	1804.9	1802.3	1789.2	1767.1	1736.8	1720.7	1719.1	1693.3	1597.3	1452.1
37.5°	1883.9	1887.2	1884.3	1873.4	1864.6	1832.4	1823.9	1823.9	1779.1	1671.4	1522.7
40°	1968.8	1974.0	1970.7	1955.6	1948.0	1933.4	1912.7	1907.8	1859.4	1760.3	1637.9
42.5°	2047.8	2054.6	2068.2	2059.4	2043.9	2046.1	2004.6	2002.0	1966.5	1891.7	1782.7
45°	2160.0	2169.9	2192.9	2186.1	2182.9	2171.4	2122.2	2119.8	2106.2	2068.4	1962.3
47.5°	2282.3	2295.8	2337.3	2338.6	2372.2	2350.6	2283.6	2275.5	2278.6	2280.1	2181.6
50°	2394.9	2409.7	2477.8	2509.9	2589.1	2593.8	2486.7	2479.4	2491.6	2527.7	2437.1
52.5°	2484.8	2503.6	2588.6	2687.7	2823.5	2862.2	2736.7	2731.3	2740.4	2802.5	2726.1
55°	2550.9	2571.2	2663.8	2844.2	3061.1	3129.2	3024.5	3019.3	3025.1	3104.1	3040.2
57.5°	2566.2	2571.2	2705.4	2949.5	3261.6	3425.1	3376.9	3366.4	3338.3	3407.1	3387.0
60°	2493.9	2513.8	2671.0	2986.5	3416.7	3716.9	3745.0	3732.0	3653.0	3709.3	3693.1
62.5°	2347.4	2382.9	2542.5	2930.2	3477.5	3955.2	4106.2	4090.5	3954.4	3990.9	3913.2
65°	2108.1	2123.2	2290.9	2736.0	3400.3	4107.7	4428.1	4420.3	4249.1	4192.0	3953.9
67.5°	1680.0	1708.4	1850.7	2330.0	3084.5	4089.7	4677.2	4676.4	4441.4	4266.5	3809.7
69°	1327.2	1356.6	1492.2	1919.3	2729.4	3925.2	4718.8	4728.0	4495.6	4221.1	3603.7
70°	1058.1	1092.2	1185.3	1616.6	2414.2	3708.2	4684.2	4700.6	4485.2	4146.3	3413.7
72.5°	450.3	478.0	544.2	833.4	1471.4	2769.0	4282.9	4345.0	4243.6	3794.8	2821.2
75°	196.6	205.2	235.2	339.7	653.2	1507.1	3355.2	3469.9	3628.5	3207.6	2101.6
77.5°	143.9	147.6	164.0	199.4	293.1	569.2	2157.7	2224.3	2616.8	2334.2	1289.1
80°	111.3	113.9	126.7	146.5	191.3	230.3	984.0	1041.4	1471.4	1198.9	536.9
82.5°	88.7	90.5	99.3	108.0	132.2	139.5	326.7	362.5	543.1	331.2	142.1
85°	82.3	84.5	87.6	78.7	84.8	81.9	141.3	147.8	164.0	130.1	59.4
87.5°	37.3	44.1	86.8	61.3	45.1	36.0	57.8	60.5	68.1	68.3	26.4
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°	989.5	989.5	989.5	989.5	989.5	989.5	989.5	989.5	989.5	989.5	989.5
2.5°	991.8	991.1	992.4	989.2	993.1	992.9	991.6	992.1	994.7	994.4	994.7
5°	997.9	997.3	998.9	996.6	1001.2	1002.8	1003.1	1005.4	1008.3	1009.1	1009.1
7.5°	1013.0	1013.0	1013.8	1010.6	1013.8	1013.5	1012.2	1014.5	1017.4	1017.7	1017.4
10°	1039.0	1039.3	1038.0	1029.9	1027.3	1020.2	1013.8	1014.0	1017.7	1020.5	1021.3
12.5°	1071.9	1070.9	1065.1	1050.2	1039.3	1025.0	1018.2	1017.9	1021.5	1024.0	1024.7
15°	1109.5	1106.6	1091.7	1067.5	1048.2	1034.1	1023.1	1020.5	1018.5	1015.9	1016.1
17.5°	1144.9	1138.4	1113.7	1079.9	1059.6	1040.9	1019.8	1002.8	991.1	984.3	982.2
20°	1180.9	1168.2	1132.4	1091.7	1065.9	1031.8	991.1	956.7	935.3	925.4	923.5
22.5°	1213.7	1193.1	1149.9	1104.0	1060.9	1000.9	937.1	887.0	857.3	844.0	845.1
25°	1245.9	1217.2	1168.2	1112.5	1035.9	946.7	862.1	800.5	766.0	751.2	750.6
27.5°	1274.0	1241.4	1187.9	1105.6	989.2	869.6	773.1	713.1	684.4	671.6	669.6
30°	1306.3	1271.9	1214.3	1078.6	920.9	780.4	686.3	644.1	623.7	610.9	608.6
32.5°	1345.7	1313.4	1235.9	1029.9	833.5	687.3	618.5	589.0	570.5	556.1	553.5
35°	1403.0	1368.1	1241.4	960.1	737.6	613.8	568.7	538.4	513.4	494.9	493.1
37.5°	1475.0	1436.7	1228.9	869.6	644.5	566.1	527.3	489.9	457.3	431.3	427.1
40°	1578.8	1520.9	1194.2	765.3	576.0	529.3	486.8	444.3	403.9	373.4	367.4
42.5°	1703.4	1619.7	1141.0	661.5	525.7	492.0	446.7	394.0	355.4	333.8	330.6
45°	1862.0	1722.4	1067.2	570.8	476.1	454.7	403.4	354.8	330.9	315.0	312.3
47.5°	2042.9	1837.7	989.8	497.0	434.1	419.8	368.7	337.4	318.4	305.8	303.5
50°	2265.3	1967.8	907.6	436.5	391.9	377.8	352.2	327.7	312.6	302.9	300.6
52.5°	2516.1	2114.6	848.5	388.7	357.0	346.8	343.6	322.5	310.3	302.9	300.6
55°	2786.3	2264.0	784.5	348.6	326.7	329.6	338.0	323.1	314.7	305.8	302.5
57.5°	3056.7	2418.4	713.4	314.7	302.8	316.8	334.1	324.1	317.1	308.4	305.4
60°	3270.5	2516.1	603.1	286.3	283.7	302.8	324.6	316.3	307.1	307.4	306.9
62.5°	3370.3	2510.9	481.3	261.0	264.7	283.7	309.5	304.1	296.4	306.7	307.4
65°	3314.3	2385.8	374.7	238.0	244.3	263.9	293.8	298.0	300.6	320.2	322.8
67.5°	3079.0	2142.3	290.2	218.0	225.8	250.3	295.4	324.6	328.0	348.6	348.3
69°	2835.8	1913.9	252.2	207.5	216.7	253.7	315.8	341.6	328.8	350.7	347.6
70°	2631.9	1733.1	231.8	200.5	212.5	259.7	329.3	341.3	324.9	343.6	338.4
72.5°	2027.0	1246.9	196.6	187.4	198.4	248.4	333.2	333.8	315.8	319.4	310.6
75°	1390.2	788.0	171.6	169.7	177.1	223.9	320.7	318.9	292.0	286.8	279.6
77.5°	766.6	400.2	145.8	152.8	157.7	198.4	291.5	288.9	266.7	255.8	253.2
80°	295.7	175.2	123.1	135.8	139.0	171.9	255.5	253.2	234.7	220.6	216.7
82.5°	111.6	91.8	101.7	117.6	116.5	141.9	216.4	215.1	197.1	176.5	170.3
85°	51.6	55.1	80.6	97.0	89.4	105.1	173.2	175.5	153.6	129.1	129.1
87.5°	21.9	30.7	57.1	73.3	60.3	70.9	127.0	121.3	111.3	77.2	72.5
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)