

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: P193390

Luminaire Tested: **GLEON-AF-02-LED-E1-5NQ-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193390  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-02-LED-E1-5NQ-8030  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10251 lumens  
Efficiency: N/A  
Efficacy: 90.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G1

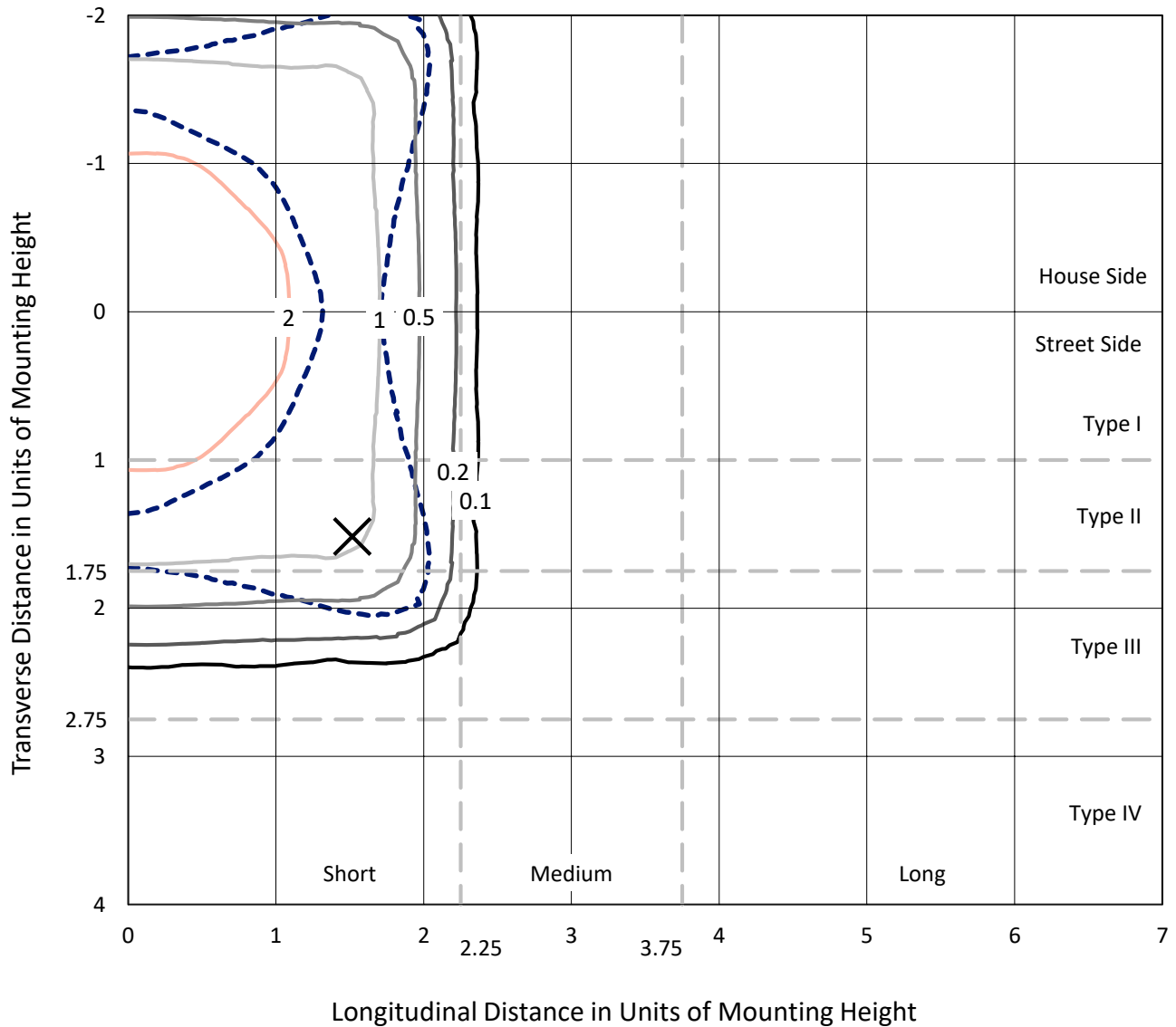
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

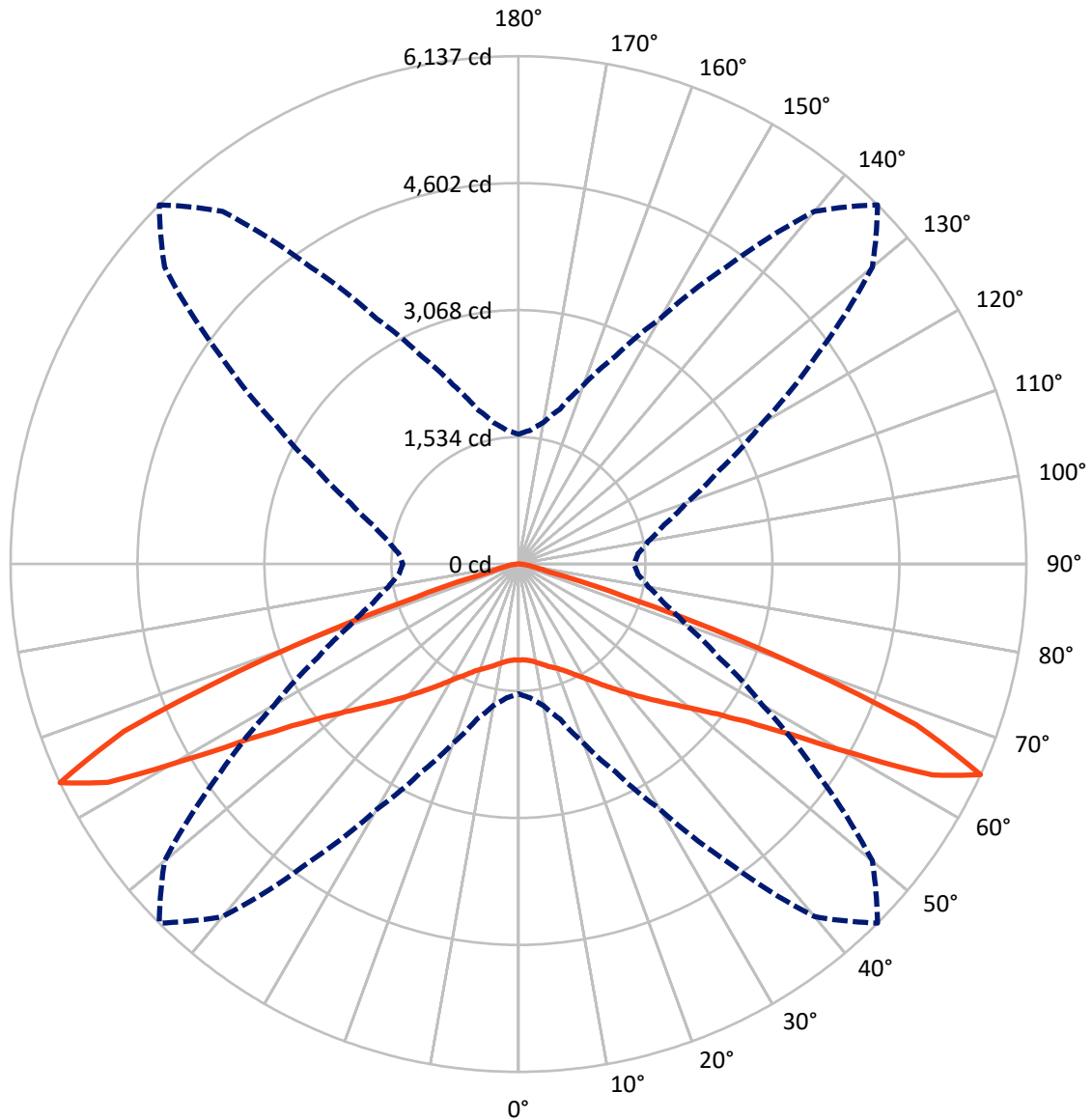
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.9 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5125.5	0.0	5125.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5125.5	0.0	5125.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10251.0	0.0	10251.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.1	1.1
10°-20°	362.6	3.5
20°-30°	678.0	6.6
30°-40°	1146.6	11.2
40°-50°	1874.8	18.3
50°-60°	2981.3	29.1
60°-70°	2694.9	26.3
70°-80°	341.1	3.3
80°-90°	58.7	0.6
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°	10251.0	100.0
0°-180°	10251.0	100.0



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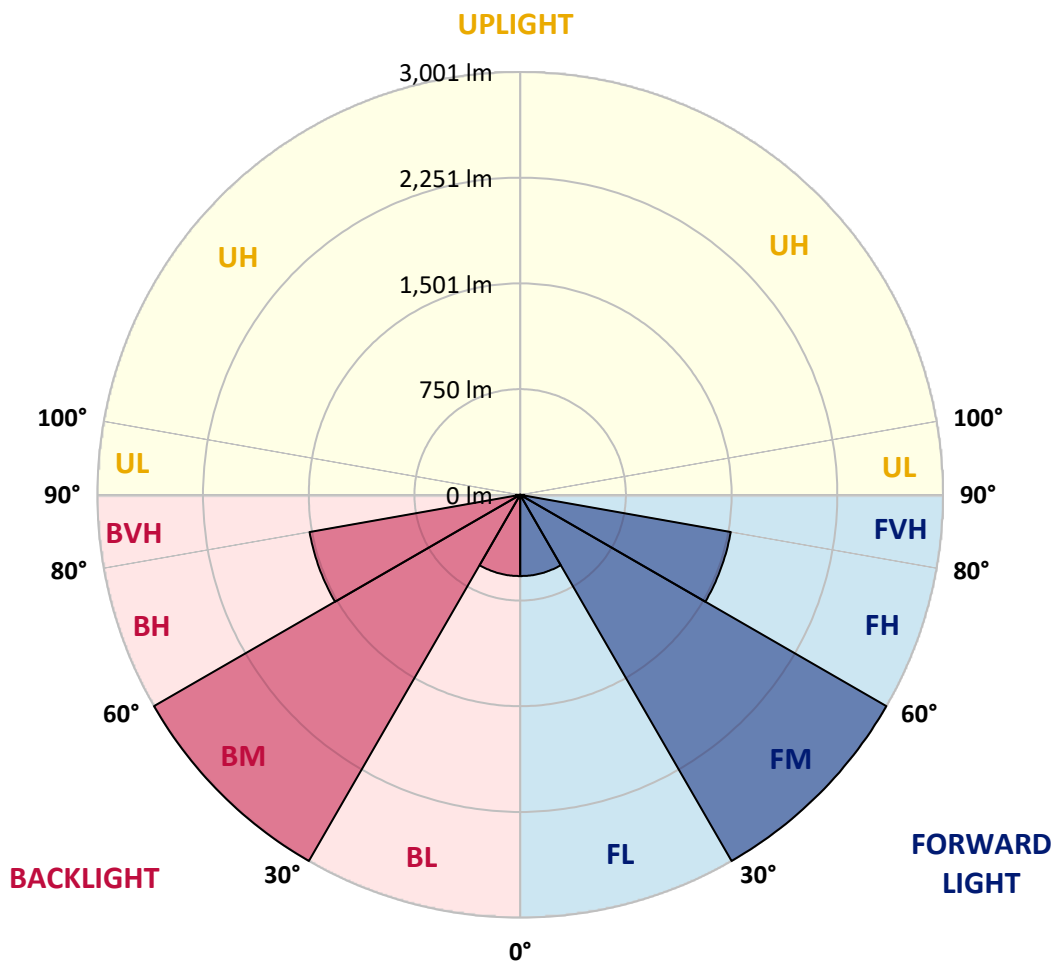
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	576.8	5.6			
FM	(30°-60°)	3001.4	29.3			
FH	(60°-80°)	1518.0	14.8			G1/1800
FVH	(80°-90°)	29.3	0.3			G1/100
BL	(0°-30°)	576.8	5.6	B2/1000		
BM	(30°-60°)	3001.4	29.3	B3/5000		
BH	(60°-80°)	1518.0	14.8	B3/2500		G1/1800
BVH	(80°-90°)	29.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1159.9	1159.9	1159.9	1159.9	1159.9	1159.9	1159.9	1159.9	1159.9	1159.9	1159.9
2.5°	1160.9	1161.8	1162.8	1161.8	1162.8	1161.3	1160.4	1161.8	1160.4	1158.9	1159.9
5°	1170.9	1171.4	1171.4	1170.0	1171.4	1170.5	1169.0	1170.9	1169.5	1168.1	1169.0
7.5°	1187.8	1189.7	1188.2	1186.8	1187.8	1186.8	1185.8	1186.3	1185.8	1184.4	1184.9
10°	1210.3	1211.8	1210.8	1210.3	1211.3	1210.8	1209.8	1209.4	1209.8	1208.4	1208.4
12.5°	1237.7	1237.2	1236.7	1237.2	1238.6	1238.6	1238.2	1238.6	1239.6	1240.1	1239.1
15°	1264.6	1265.5	1265.5	1265.5	1268.4	1270.8	1272.2	1273.2	1275.1	1275.6	1273.7
17.5°	1298.2	1298.2	1297.7	1298.2	1301.1	1304.9	1306.3	1308.3	1310.2	1311.6	1309.2
20°	1335.6	1336.6	1336.6	1337.5	1341.4	1345.7	1345.7	1346.7	1345.7	1346.7	1345.2
22.5°	1381.2	1384.1	1384.1	1384.6	1388.4	1393.7	1392.3	1393.7	1391.3	1393.2	1391.3
25°	1440.8	1445.1	1444.1	1444.1	1447.0	1450.4	1450.8	1453.7	1453.2	1455.6	1454.2
27.5°	1508.0	1514.7	1516.6	1516.1	1518.1	1521.4	1522.4	1525.7	1523.8	1525.7	1524.8
30°	1588.6	1591.5	1595.4	1596.8	1599.2	1602.6	1602.6	1603.0	1600.6	1603.5	1605.0
32.5°	1672.2	1677.4	1681.3	1689.9	1694.3	1696.7	1696.2	1697.1	1694.7	1698.6	1701.5
35°	1782.6	1786.4	1792.7	1799.4	1805.2	1804.7	1803.2	1803.7	1803.7	1807.1	1810.0
37.5°	1915.6	1916.5	1924.7	1934.3	1937.2	1934.3	1925.7	1923.7	1919.4	1923.7	1928.5
40°	2056.2	2059.6	2075.9	2082.2	2083.6	2078.3	2065.8	2058.6	2049.0	2054.3	2061.0
42.5°	2203.6	2210.4	2225.2	2236.3	2241.1	2237.7	2220.4	2209.4	2196.9	2199.8	2206.5
45°	2366.9	2375.0	2396.1	2406.7	2415.8	2410.5	2393.7	2376.9	2357.3	2358.7	2369.3
47.5°	2549.3	2557.5	2584.8	2602.6	2607.4	2606.4	2587.7	2564.7	2537.8	2536.8	2545.9
50°	2753.8	2762.0	2796.1	2823.4	2837.4	2835.9	2813.8	2781.2	2748.5	2749.0	2760.5
52.5°	2953.5	2963.6	2999.1	3046.2	3073.6	3093.2	3079.8	3049.1	3009.2	3010.2	3020.7
55°	3140.8	3157.6	3198.4	3262.2	3313.1	3368.3	3384.2	3383.2	3359.2	3365.9	3376.5
57.5°	3231.5	3256.5	3319.4	3420.2	3523.9	3636.2	3731.3	3802.3	3832.6	3878.2	3867.6
60°	3059.6	3099.5	3192.1	3340.5	3545.5	3779.8	4030.9	4276.2	4485.5	4643.5	4552.7
62.5°	2505.1	2557.0	2669.3	2859.4	3169.6	3544.5	4025.1	4605.1	5236.9	5618.1	5345.8
65°	1567.5	1621.3	1735.5	1939.1	2302.0	2768.2	3420.2	4381.3	5561.9	6136.6	5582.5
67.5°	611.2	640.4	702.4	832.5	1105.2	1520.0	2174.3	3265.1	4677.1	5180.7	4590.2
70°	306.3	309.2	320.7	344.7	403.3	523.8	797.0	1513.7	2682.3	3239.7	2585.8
72.5°	221.3	221.8	227.6	238.1	256.9	283.7	335.6	463.3	872.3	1333.2	817.6
75°	169.5	171.4	174.8	180.5	190.6	204.0	222.8	266.9	330.8	383.6	322.6
77.5°	130.6	134.4	136.8	142.1	148.3	157.5	162.8	179.6	208.8	219.9	216.5
80°	99.4	102.7	108.0	112.3	116.7	121.0	119.1	126.7	142.1	151.2	146.4
82.5°	63.4	67.2	82.6	86.4	88.3	91.2	87.9	88.3	95.1	100.8	95.1
85°	40.8	43.2	52.3	57.1	57.6	59.5	58.1	54.7	54.7	49.9	56.2
87.5°	18.7	19.2	23.5	27.8	28.8	25.9	25.4	24.5	19.7	18.7	20.2
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1159.9	1159.9	1159.9	1159.9	1159.9	1159.9	1159.9	1159.9
2.5°	1159.4	1160.4	1160.9	1162.3	1162.8	1162.8	1163.3	1164.2
5°	1168.5	1170.0	1170.5	1172.4	1172.9	1172.4	1173.3	1173.8
7.5°	1184.9	1187.3	1188.2	1190.2	1188.7	1190.6	1191.1	1191.1
10°	1208.9	1211.3	1211.8	1213.7	1212.7	1213.7	1213.7	1212.7
12.5°	1240.6	1241.0	1239.6	1241.0	1239.1	1240.1	1238.6	1237.7
15°	1275.6	1274.2	1270.8	1270.8	1267.9	1268.4	1267.9	1267.4
17.5°	1309.7	1306.8	1304.4	1303.5	1301.1	1300.6	1299.1	1299.1
20°	1347.1	1345.7	1344.3	1342.3	1339.9	1337.5	1337.1	1338.0
22.5°	1392.3	1391.8	1391.8	1390.8	1387.5	1385.1	1383.6	1383.6
25°	1452.8	1448.4	1448.4	1448.0	1446.5	1445.1	1442.2	1443.6
27.5°	1520.9	1518.5	1520.5	1520.0	1518.5	1518.5	1516.6	1516.6
30°	1605.0	1604.0	1606.9	1604.5	1599.7	1599.2	1597.3	1594.9
32.5°	1701.9	1701.0	1705.3	1702.4	1694.7	1690.4	1686.6	1684.6
35°	1810.0	1810.4	1815.7	1813.8	1805.2	1802.3	1795.6	1794.6
37.5°	1928.1	1935.7	1944.9	1946.8	1939.6	1937.7	1930.5	1926.6
40°	2066.8	2076.9	2090.8	2094.2	2086.5	2085.0	2075.0	2069.7
42.5°	2214.7	2232.0	2249.2	2252.1	2244.4	2236.8	2227.2	2223.3
45°	2379.8	2400.5	2423.0	2428.8	2417.3	2408.1	2395.7	2395.7
47.5°	2565.1	2591.1	2616.5	2632.4	2621.8	2612.2	2597.3	2587.7
50°	2784.1	2819.6	2852.7	2869.0	2852.2	2834.0	2808.1	2799.4
52.5°	3058.7	3097.1	3125.9	3117.2	3091.3	3065.9	3037.6	3026.0
55°	3409.1	3422.1	3422.1	3389.5	3337.6	3294.9	3250.2	3235.4
57.5°	3847.5	3797.5	3720.7	3623.3	3500.8	3394.3	3322.2	3288.2
60°	4362.6	4122.6	3851.3	3584.9	3365.9	3185.4	3078.4	3029.4
62.5°	4705.9	4077.9	3534.4	3106.7	2791.7	2574.3	2426.4	2368.8
65°	4398.1	3401.0	2673.2	2161.4	1818.1	1596.8	1450.4	1396.6
67.5°	3221.4	2131.1	1423.5	1020.2	747.5	596.3	536.3	511.3
70°	1446.0	750.4	459.9	359.1	309.7	284.2	273.2	269.3
72.5°	435.9	315.4	266.0	240.0	220.4	207.9	198.8	197.8
75°	263.1	218.9	194.4	179.1	166.6	156.5	151.7	150.3
77.5°	183.9	160.8	149.3	138.3	128.7	121.0	116.7	113.3
80°	129.1	118.1	112.8	106.6	100.3	93.1	86.9	84.0
82.5°	86.4	84.0	84.0	80.2	74.9	68.2	55.7	52.8
85°	55.7	55.2	56.2	54.7	50.9	43.7	36.0	34.1
87.5°	25.9	26.4	29.3	28.8	27.8	23.0	18.2	17.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)