

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: P190840

Luminaire Tested: **GLEON-AF-02-LED-E1-5NQ-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190840  
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-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10383 lumens  
Efficiency: N/A  
Efficacy: 122.2 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

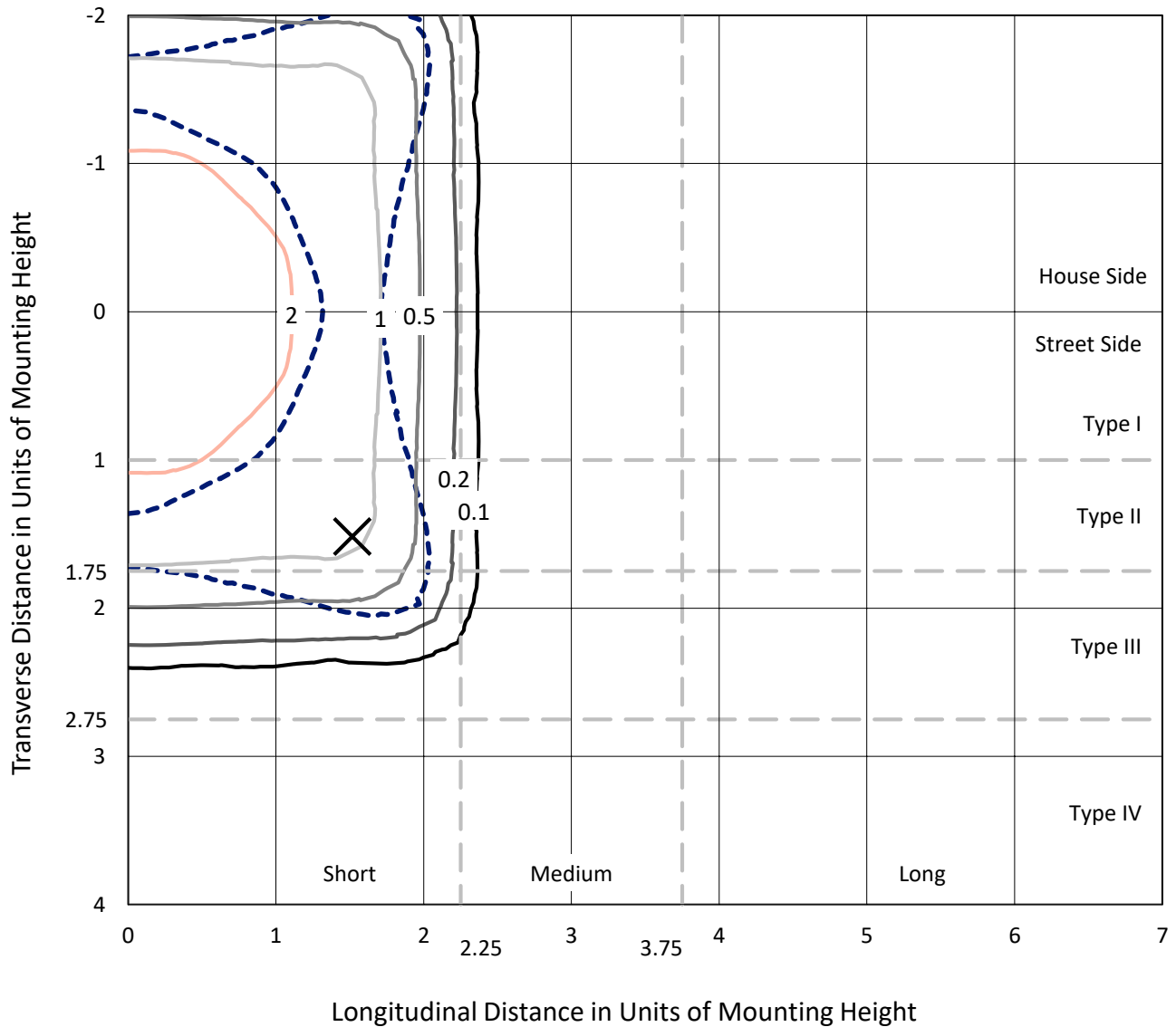
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

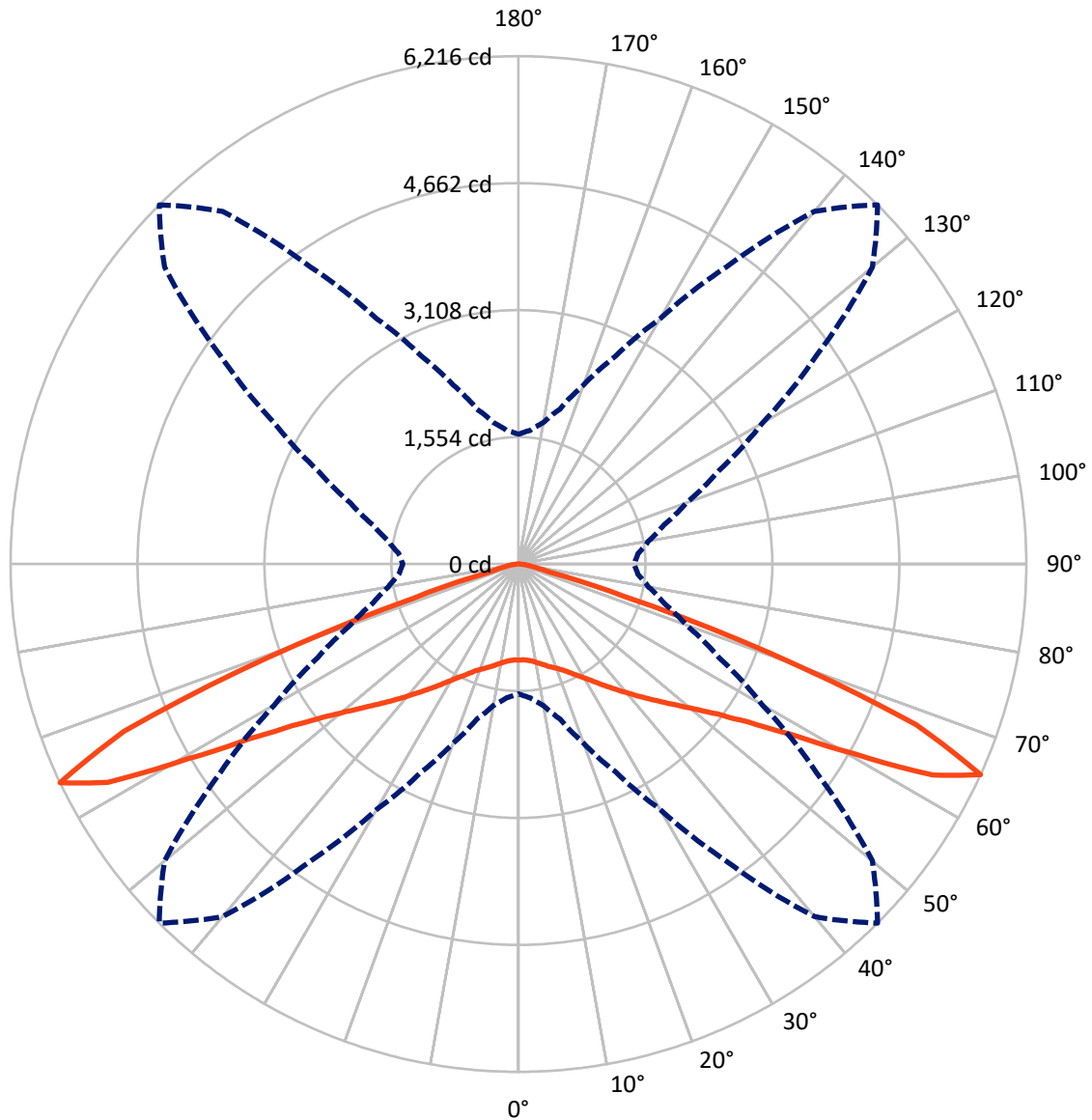
✕ Max cd  
 - - - 1/2 Max cd



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	5191.5	0.0	5191.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5191.5	0.0	5191.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10383.0	0.0	10383.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.5	1.1
10°-20°	367.3	3.5
20°-30°	686.7	6.6
30°-40°	1161.4	11.2
40°-50°	1899.0	18.3
50°-60°	3019.7	29.1
60°-70°	2729.6	26.3
70°-80°	345.4	3.3
80°-90°	59.4	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°	10383.0	100.0
0°-180°	10383.0	100.0

**Coefficient of Utilization**



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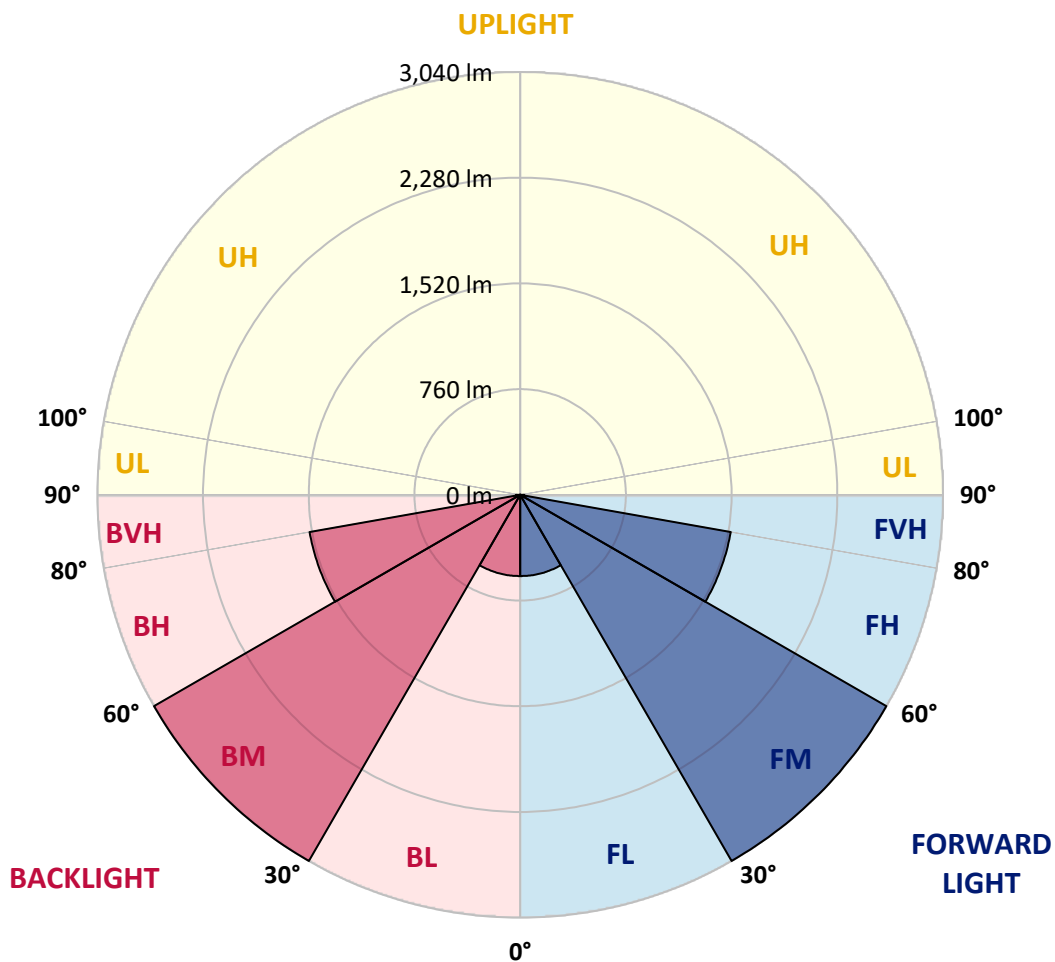
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	584.2	5.6			
FM	(30°-60°)	3040.0	29.3			
FH	(60°-80°)	1537.5	14.8			G1/1800
FVH	(80°-90°)	29.7	0.3			G1/100
BL	(0°-30°)	584.2	5.6	B2/1000		
BM	(30°-60°)	3040.0	29.3	B3/5000		
BH	(60°-80°)	1537.5	14.8	B3/2500		G1/1800
BVH	(80°-90°)	29.7	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°	1174.9	1174.9	1174.9	1174.9	1174.9	1174.9	1174.9	1174.9	1174.9	1174.9	1174.9
2.5°	1175.8	1176.8	1177.7	1176.8	1177.7	1176.3	1175.4	1176.8	1175.4	1173.8	1174.9
5°	1186.0	1186.5	1186.5	1185.1	1186.5	1185.5	1184.1	1186.0	1184.6	1183.1	1184.1
7.5°	1203.0	1205.0	1203.5	1202.1	1203.0	1202.1	1201.0	1201.6	1201.0	1199.6	1200.1
10°	1225.9	1227.3	1226.4	1225.9	1226.8	1226.4	1225.4	1224.9	1225.4	1224.0	1224.0
12.5°	1253.6	1253.1	1252.6	1253.1	1254.5	1254.5	1254.1	1254.5	1255.6	1256.1	1255.1
15°	1280.8	1281.9	1281.9	1281.9	1284.7	1287.2	1288.6	1289.6	1291.6	1292.0	1290.0
17.5°	1314.9	1314.9	1314.4	1314.9	1317.8	1321.7	1323.2	1325.1	1327.1	1328.5	1326.1
20°	1352.9	1353.8	1353.8	1354.8	1358.7	1363.0	1363.0	1364.0	1363.0	1364.0	1362.6
22.5°	1399.0	1402.0	1402.0	1402.4	1406.4	1411.7	1410.2	1411.7	1409.2	1411.2	1409.2
25°	1459.3	1463.6	1462.7	1462.7	1465.6	1469.1	1469.5	1472.4	1471.9	1474.4	1472.9
27.5°	1527.4	1534.2	1536.2	1535.7	1537.6	1541.0	1542.0	1545.4	1543.4	1545.4	1544.5
30°	1609.1	1612.0	1615.9	1617.4	1619.7	1623.2	1623.2	1623.6	1621.3	1624.1	1625.6
32.5°	1693.7	1699.0	1702.9	1711.7	1716.1	1718.5	1718.0	1719.0	1716.5	1720.4	1723.4
35°	1805.5	1809.4	1815.7	1822.6	1828.4	1827.9	1826.5	1826.9	1826.9	1830.4	1833.2
37.5°	1940.2	1941.3	1949.4	1959.2	1962.1	1959.2	1950.5	1948.5	1944.1	1948.5	1953.3
40°	2082.7	2086.1	2102.7	2109.0	2110.4	2105.0	2092.4	2085.2	2075.5	2080.8	2087.5
42.5°	2232.0	2238.8	2253.9	2265.0	2269.9	2266.6	2249.1	2237.8	2225.2	2228.1	2234.9
45°	2397.3	2405.6	2427.0	2437.7	2446.9	2441.6	2424.6	2407.5	2387.6	2389.1	2399.7
47.5°	2582.1	2590.4	2618.1	2636.0	2641.0	2639.9	2621.0	2597.7	2570.5	2569.4	2578.8
50°	2789.3	2797.6	2832.0	2859.8	2873.9	2872.4	2850.0	2817.0	2784.0	2784.4	2796.0
52.5°	2991.5	3001.7	3037.8	3085.4	3113.1	3133.1	3119.5	3088.3	3048.0	3048.9	3059.6
55°	3181.2	3198.3	3239.6	3304.2	3355.8	3411.6	3427.7	3426.8	3402.4	3409.3	3419.9
57.5°	3273.1	3298.4	3362.1	3464.2	3569.3	3683.0	3779.3	3851.3	3881.9	3928.1	3917.4
60°	3099.0	3139.3	3233.2	3383.5	3591.2	3828.4	4082.8	4331.3	4543.2	4703.2	4611.4
62.5°	2537.3	2589.9	2703.7	2896.3	3210.3	3590.1	4076.9	4664.3	5304.3	5690.4	5414.7
65°	1587.7	1642.1	1757.8	1964.1	2331.7	2803.8	3464.2	4437.8	5633.5	6215.6	5654.4
67.5°	619.0	648.7	711.5	843.2	1119.4	1539.5	2202.3	3307.1	4737.3	5247.3	4649.2
70°	310.3	313.1	324.8	349.1	408.5	530.5	807.2	1533.2	2716.9	3281.4	2619.1
72.5°	224.1	224.6	230.5	241.2	260.1	287.3	339.9	469.2	883.5	1350.4	828.1
75°	171.7	173.6	177.0	182.8	193.0	206.6	225.7	270.4	335.0	388.5	326.7
77.5°	132.3	136.2	138.6	143.9	150.3	159.5	164.8	181.9	211.5	222.7	219.3
80°	100.7	104.0	109.5	113.8	118.2	122.5	120.6	128.4	143.9	153.1	148.3
82.5°	64.1	68.1	83.7	87.6	89.5	92.4	89.0	89.5	96.3	102.1	96.3
85°	41.3	43.8	53.0	57.9	58.3	60.3	58.8	55.4	55.4	50.5	56.9
87.5°	18.9	19.4	23.8	28.2	29.2	26.3	25.8	24.8	19.9	18.9	20.5
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°	1174.9	1174.9	1174.9	1174.9	1174.9	1174.9	1174.9	1174.9
2.5°	1174.3	1175.4	1175.8	1177.3	1177.7	1177.7	1178.2	1179.3
5°	1183.6	1185.1	1185.5	1187.4	1188.0	1187.4	1188.5	1189.0
7.5°	1200.1	1202.6	1203.5	1205.4	1204.0	1206.0	1206.5	1206.5
10°	1224.5	1226.8	1227.3	1229.3	1228.4	1229.3	1229.3	1228.4
12.5°	1256.5	1257.0	1255.6	1257.0	1255.1	1256.1	1254.5	1253.6
15°	1292.0	1290.6	1287.2	1287.2	1284.2	1284.7	1284.2	1283.8
17.5°	1326.6	1323.6	1321.2	1320.2	1317.8	1317.4	1315.8	1315.8
20°	1364.5	1363.0	1361.5	1359.6	1357.1	1354.8	1354.3	1355.2
22.5°	1410.2	1409.7	1409.7	1408.7	1405.3	1402.9	1401.4	1401.4
25°	1471.4	1467.1	1467.1	1466.6	1465.2	1463.6	1460.8	1462.2
27.5°	1540.6	1538.1	1540.1	1539.5	1538.1	1538.1	1536.2	1536.2
30°	1625.6	1624.7	1627.5	1625.2	1620.3	1619.7	1617.8	1615.4
32.5°	1723.9	1722.9	1727.3	1724.3	1716.5	1712.2	1708.3	1706.4
35°	1833.2	1833.7	1839.1	1837.1	1828.4	1825.5	1818.7	1817.7
37.5°	1952.9	1960.7	1969.9	1971.8	1964.6	1962.6	1955.3	1951.4
40°	2093.4	2103.6	2117.7	2121.1	2113.3	2111.9	2101.7	2096.3
42.5°	2243.2	2260.7	2278.2	2281.1	2273.3	2265.5	2255.8	2251.9
45°	2410.5	2431.3	2454.3	2460.1	2448.4	2439.1	2426.5	2426.5
47.5°	2598.2	2624.4	2650.2	2666.2	2655.6	2645.9	2630.7	2621.0
50°	2819.9	2855.9	2889.4	2906.0	2888.9	2870.5	2844.2	2835.4
52.5°	3098.0	3137.0	3166.1	3157.3	3131.2	3105.4	3076.6	3065.0
55°	3453.1	3466.2	3466.2	3433.1	3380.5	3337.3	3292.1	3277.0
57.5°	3897.0	3846.4	3768.7	3669.9	3545.9	3437.9	3365.0	3330.5
60°	4418.7	4175.6	3900.9	3631.0	3409.3	3226.4	3118.0	3068.3
62.5°	4766.4	4130.4	3579.9	3146.7	2827.6	2607.4	2457.6	2399.2
65°	4454.7	3444.8	2707.5	2189.2	1841.5	1617.4	1469.1	1414.5
67.5°	3262.9	2158.5	1441.8	1033.3	757.1	604.0	543.2	517.9
70°	1464.7	760.1	465.9	363.8	313.6	287.9	276.7	272.8
72.5°	441.5	319.5	269.4	243.2	223.2	210.5	201.3	200.3
75°	266.5	221.8	196.9	181.4	168.8	158.6	153.6	152.2
77.5°	186.3	162.9	151.2	140.0	130.3	122.5	118.2	114.8
80°	130.8	119.6	114.3	107.9	101.7	94.3	88.0	85.1
82.5°	87.6	85.1	85.1	81.2	75.9	69.0	56.4	53.5
85°	56.4	56.0	56.9	55.4	51.6	44.3	36.5	34.6
87.5°	26.3	26.7	29.7	29.2	28.2	23.3	18.5	17.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)