

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: P200228

Luminaire Tested: **GWC-AF-02-LED-E1-5NQ-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200228
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: GWC-AF-02-LED-E1-5NQ-7050-600
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8443 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

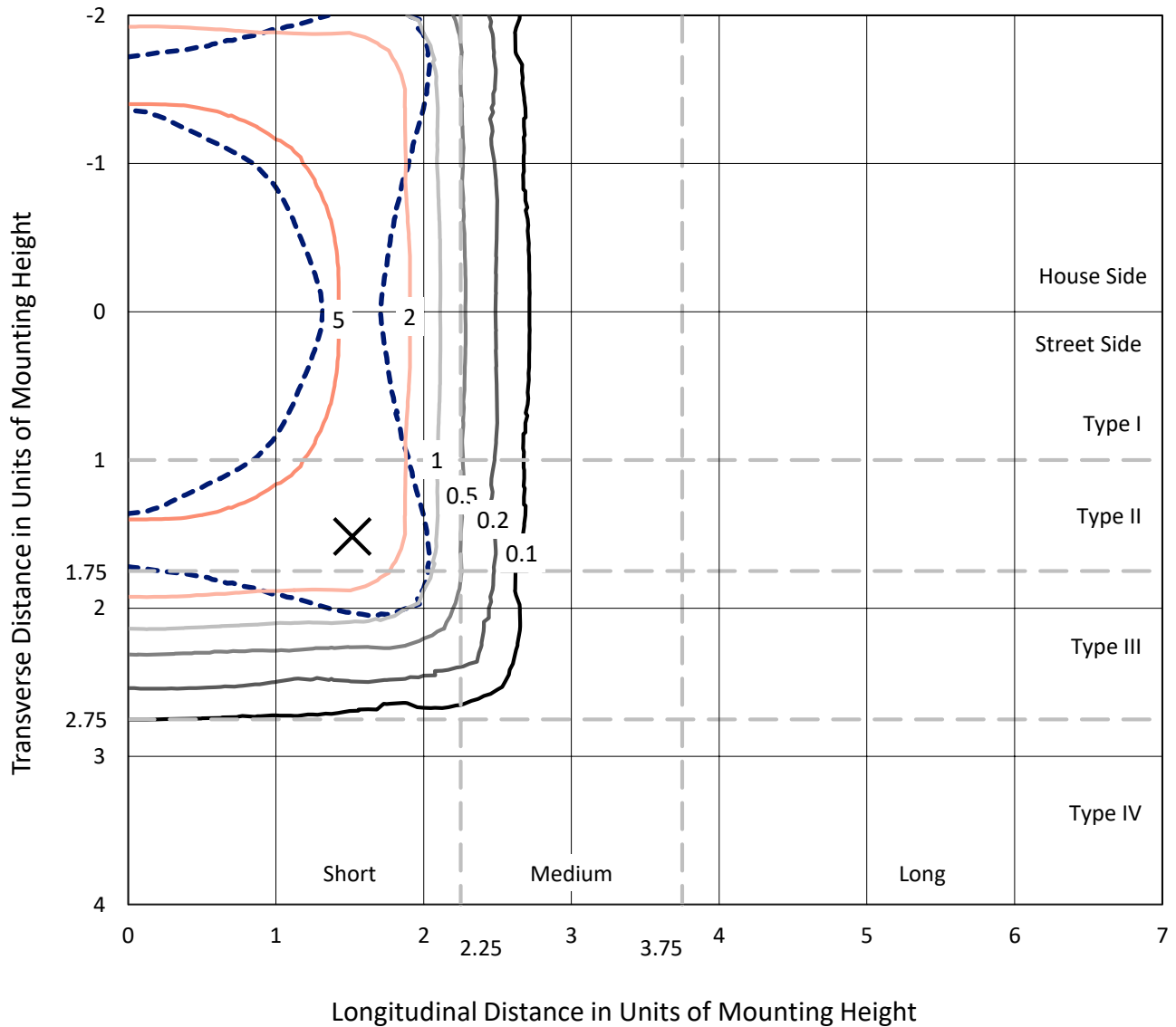
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

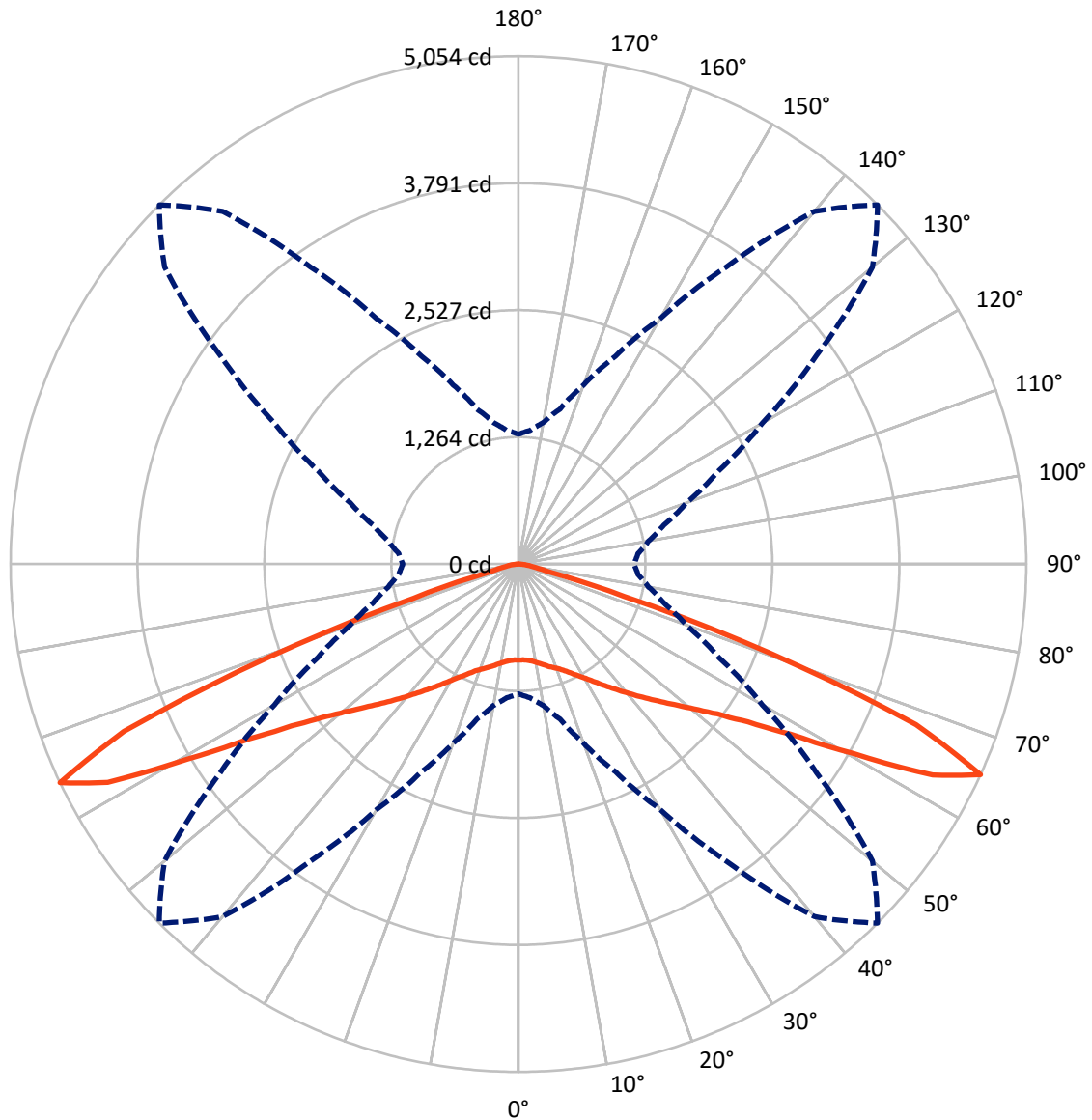
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.6 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
House Side	Lumens	4221.5	0.0	4221.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4221.5	0.0	4221.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8443.0	0.0	8443.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.1	1.1
10°-20°	298.6	3.5
20°-30°	558.4	6.6
30°-40°	944.4	11.2
40°-50°	1544.2	18.3
50°-60°	2455.5	29.1
60°-70°	2219.6	26.3
70°-80°	280.9	3.3
80°-90°	48.3	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°	8443.0	100.0
0°-180°	8443.0	100.0

Coefficient of Utilization



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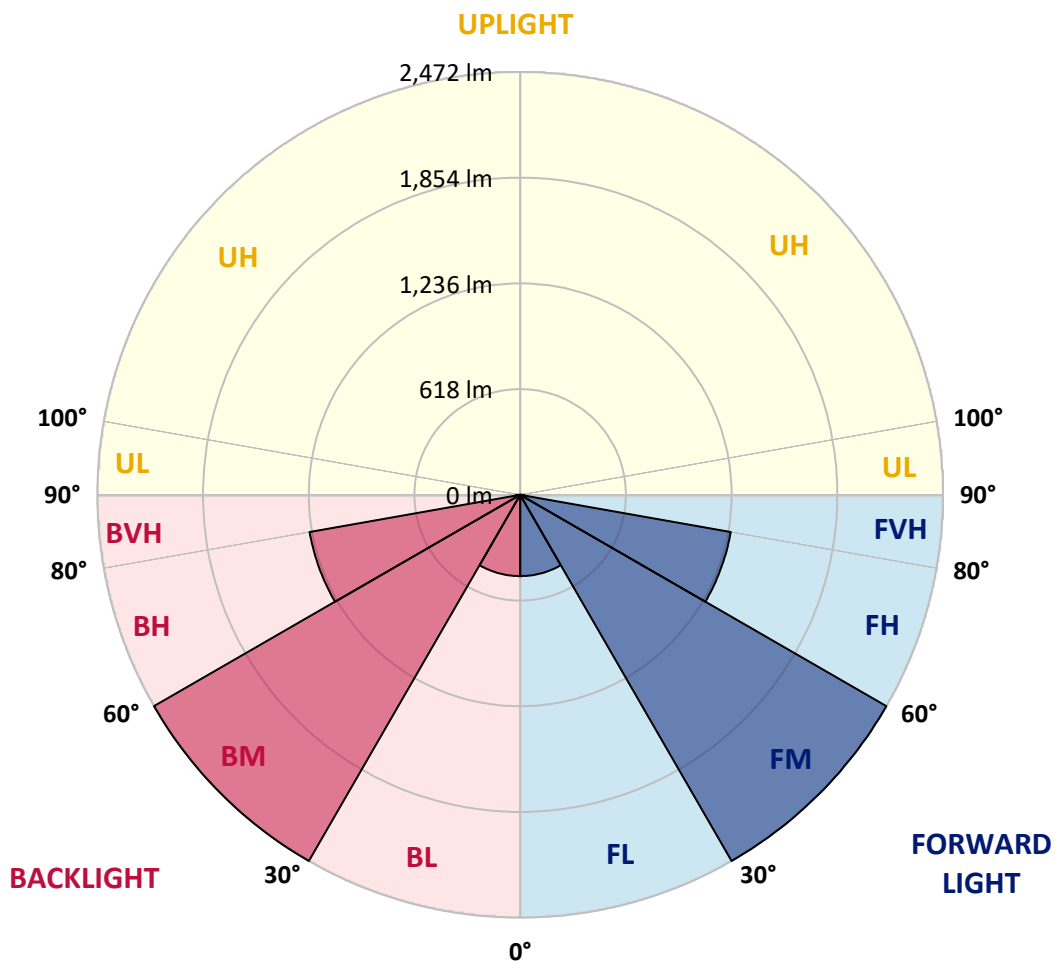
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	475.1	5.6			
FM	(30°-60°)	2472.0	29.3			
FH	(60°-80°)	1250.2	14.8			G1/1800
FVH	(80°-90°)	24.2	0.3			G1/100
BL	(0°-30°)	475.1	5.6	B1/500		
BM	(30°-60°)	2472.0	29.3	B2/2500		
BH	(60°-80°)	1250.2	14.8	B3/2500		G1/1800
BVH	(80°-90°)	24.2	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°	955.3	955.3	955.3	955.3	955.3	955.3	955.3	955.3	955.3	955.3	955.3
2.5°	956.1	956.9	957.7	956.9	957.7	956.5	955.7	956.9	955.7	954.5	955.3
5°	964.4	964.8	964.8	963.6	964.8	964.0	962.8	964.4	963.2	962.1	962.8
7.5°	978.3	979.8	978.7	977.5	978.3	977.5	976.7	977.1	976.7	975.5	975.9
10°	996.8	998.0	997.2	996.8	997.6	997.2	996.5	996.1	996.5	995.3	995.3
12.5°	1019.4	1019.0	1018.6	1019.0	1020.2	1020.2	1019.8	1020.2	1021.0	1021.4	1020.6
15°	1041.5	1042.3	1042.3	1042.3	1044.7	1046.7	1047.9	1048.6	1050.2	1050.6	1049.0
17.5°	1069.2	1069.2	1068.8	1069.2	1071.6	1074.7	1075.9	1077.5	1079.1	1080.3	1078.3
20°	1100.1	1100.8	1100.8	1101.6	1104.8	1108.4	1108.4	1109.1	1108.4	1109.1	1108.0
22.5°	1137.6	1140.0	1140.0	1140.4	1143.5	1147.9	1146.7	1147.9	1145.9	1147.5	1145.9
25°	1186.6	1190.2	1189.4	1189.4	1191.8	1194.6	1195.0	1197.3	1196.9	1198.9	1197.7
27.5°	1242.0	1247.5	1249.1	1248.7	1250.3	1253.1	1253.9	1256.6	1255.1	1256.6	1255.8
30°	1308.4	1310.8	1314.0	1315.2	1317.1	1319.9	1319.9	1320.3	1318.3	1320.7	1321.9
32.5°	1377.2	1381.6	1384.8	1391.9	1395.4	1397.4	1397.0	1397.8	1395.8	1399.0	1401.4
35°	1468.2	1471.4	1476.5	1482.0	1486.8	1486.4	1485.2	1485.6	1485.6	1488.4	1490.7
37.5°	1577.7	1578.5	1585.2	1593.1	1595.5	1593.1	1586.0	1584.4	1580.9	1584.4	1588.4
40°	1693.6	1696.3	1709.8	1714.9	1716.1	1711.8	1701.5	1695.6	1687.6	1692.0	1697.5
42.5°	1815.0	1820.5	1832.8	1841.9	1845.8	1843.0	1828.8	1819.7	1809.4	1811.8	1817.3
45°	1949.4	1956.1	1973.5	1982.2	1989.7	1985.4	1971.6	1957.7	1941.5	1942.7	1951.4
47.5°	2099.7	2106.4	2128.9	2143.6	2147.5	2146.7	2131.3	2112.3	2090.2	2089.4	2096.9
50°	2268.1	2274.8	2302.9	2325.5	2336.9	2335.7	2317.5	2290.7	2263.8	2264.2	2273.7
52.5°	2432.6	2440.9	2470.2	2508.9	2531.5	2547.7	2536.6	2511.3	2478.5	2479.3	2488.0
55°	2586.8	2600.7	2634.3	2686.9	2728.8	2774.3	2787.3	2786.5	2766.7	2772.3	2781.0
57.5°	2661.6	2682.1	2733.9	2817.0	2902.4	2994.9	3073.2	3131.7	3156.6	3194.2	3185.5
60°	2520.0	2552.8	2629.1	2751.3	2920.2	3113.1	3319.9	3522.0	3694.4	3824.5	3749.7
62.5°	2063.3	2106.0	2198.5	2355.1	2610.5	2919.4	3315.2	3792.8	4313.2	4627.2	4403.0
65°	1291.0	1335.3	1429.4	1597.1	1896.0	2280.0	2817.0	3608.6	4580.9	5054.2	4597.9
67.5°	503.4	527.5	578.5	685.7	910.3	1251.9	1790.8	2689.2	3852.2	4267.0	3780.6
70°	252.3	254.6	264.1	283.9	332.2	431.4	656.4	1246.8	2209.2	2668.3	2129.7
72.5°	182.3	182.7	187.4	196.1	211.5	233.7	276.4	381.6	718.5	1098.1	673.4
75°	139.6	141.2	143.9	148.7	157.0	168.1	183.5	219.9	272.4	315.9	265.7
77.5°	107.6	110.7	112.7	117.0	122.2	129.7	134.0	147.9	172.0	181.1	178.3
80°	81.9	84.6	89.0	92.5	96.1	99.6	98.1	104.4	117.0	124.6	120.6
82.5°	52.2	55.4	68.0	71.2	72.8	75.1	72.4	72.8	78.3	83.0	78.3
85°	33.6	35.6	43.1	47.1	47.5	49.0	47.8	45.1	45.1	41.1	46.3
87.5°	15.4	15.8	19.4	22.9	23.7	21.4	21.0	20.2	16.2	15.4	16.6
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°	955.3	955.3	955.3	955.3	955.3	955.3	955.3	955.3
2.5°	954.9	955.7	956.1	957.3	957.7	957.7	958.1	958.9
5°	962.4	963.6	964.0	965.6	966.0	965.6	966.4	966.8
7.5°	975.9	977.9	978.7	980.2	979.1	980.6	981.0	981.0
10°	995.7	997.6	998.0	999.6	998.8	999.6	999.6	998.8
12.5°	1021.8	1022.2	1021.0	1022.2	1020.6	1021.4	1020.2	1019.4
15°	1050.6	1049.4	1046.7	1046.7	1044.3	1044.7	1044.3	1043.9
17.5°	1078.7	1076.3	1074.4	1073.6	1071.6	1071.2	1070.0	1070.0
20°	1109.5	1108.4	1107.2	1105.6	1103.6	1101.6	1101.2	1102.0
22.5°	1146.7	1146.3	1146.3	1145.5	1142.8	1140.8	1139.6	1139.6
25°	1196.5	1193.0	1193.0	1192.6	1191.4	1190.2	1187.8	1189.0
27.5°	1252.7	1250.7	1252.3	1251.9	1250.7	1250.7	1249.1	1249.1
30°	1321.9	1321.1	1323.5	1321.5	1317.5	1317.1	1315.6	1313.6
32.5°	1401.8	1401.0	1404.5	1402.2	1395.8	1392.3	1389.1	1387.5
35°	1490.7	1491.1	1495.5	1493.9	1486.8	1484.4	1478.9	1478.1
37.5°	1588.0	1594.3	1601.8	1603.4	1597.5	1595.9	1590.0	1586.8
40°	1702.3	1710.6	1722.0	1724.8	1718.5	1717.3	1709.0	1704.6
42.5°	1824.1	1838.3	1852.5	1854.9	1848.6	1842.3	1834.3	1831.2
45°	1960.1	1977.1	1995.7	2000.4	1990.9	1983.4	1973.1	1973.1
47.5°	2112.7	2134.1	2155.0	2168.1	2159.4	2151.5	2139.2	2131.3
50°	2293.0	2322.3	2349.6	2363.0	2349.2	2334.2	2312.8	2305.7
52.5°	2519.2	2550.8	2574.6	2567.4	2546.1	2525.1	2501.8	2492.3
55°	2807.9	2818.5	2818.5	2791.7	2748.9	2713.8	2677.0	2664.7
57.5°	3168.9	3127.8	3064.5	2984.2	2883.4	2795.6	2736.3	2708.2
60°	3593.2	3395.5	3172.0	2952.6	2772.3	2623.6	2535.4	2495.1
62.5°	3875.9	3358.7	2911.1	2558.8	2299.4	2120.2	1998.4	1951.0
65°	3622.4	2801.1	2201.7	1780.2	1497.4	1315.2	1194.6	1150.3
67.5°	2653.3	1755.3	1172.4	840.3	615.7	491.1	441.7	421.1
70°	1191.0	618.0	378.8	295.8	255.0	234.1	225.0	221.8
72.5°	359.0	259.8	219.1	197.7	181.5	171.2	163.7	162.9
75°	216.7	180.3	160.1	147.5	137.2	128.9	125.0	123.8
77.5°	151.4	132.5	123.0	113.9	106.0	99.6	96.1	93.3
80°	106.4	97.3	92.9	87.8	82.6	76.7	71.6	69.2
82.5°	71.2	69.2	69.2	66.0	61.7	56.1	45.9	43.5
85°	45.9	45.5	46.3	45.1	41.9	36.0	29.7	28.1
87.5°	21.4	21.7	24.1	23.7	22.9	19.0	15.0	14.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)