

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: P270227

Luminaire Tested: **GWC-AF-02-LED-E1-T2-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P270227  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)  
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-T2-7027-800  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8556.5 lumens  
Efficiency: N/A  
Efficacy: 99.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B2 - U0 - G2

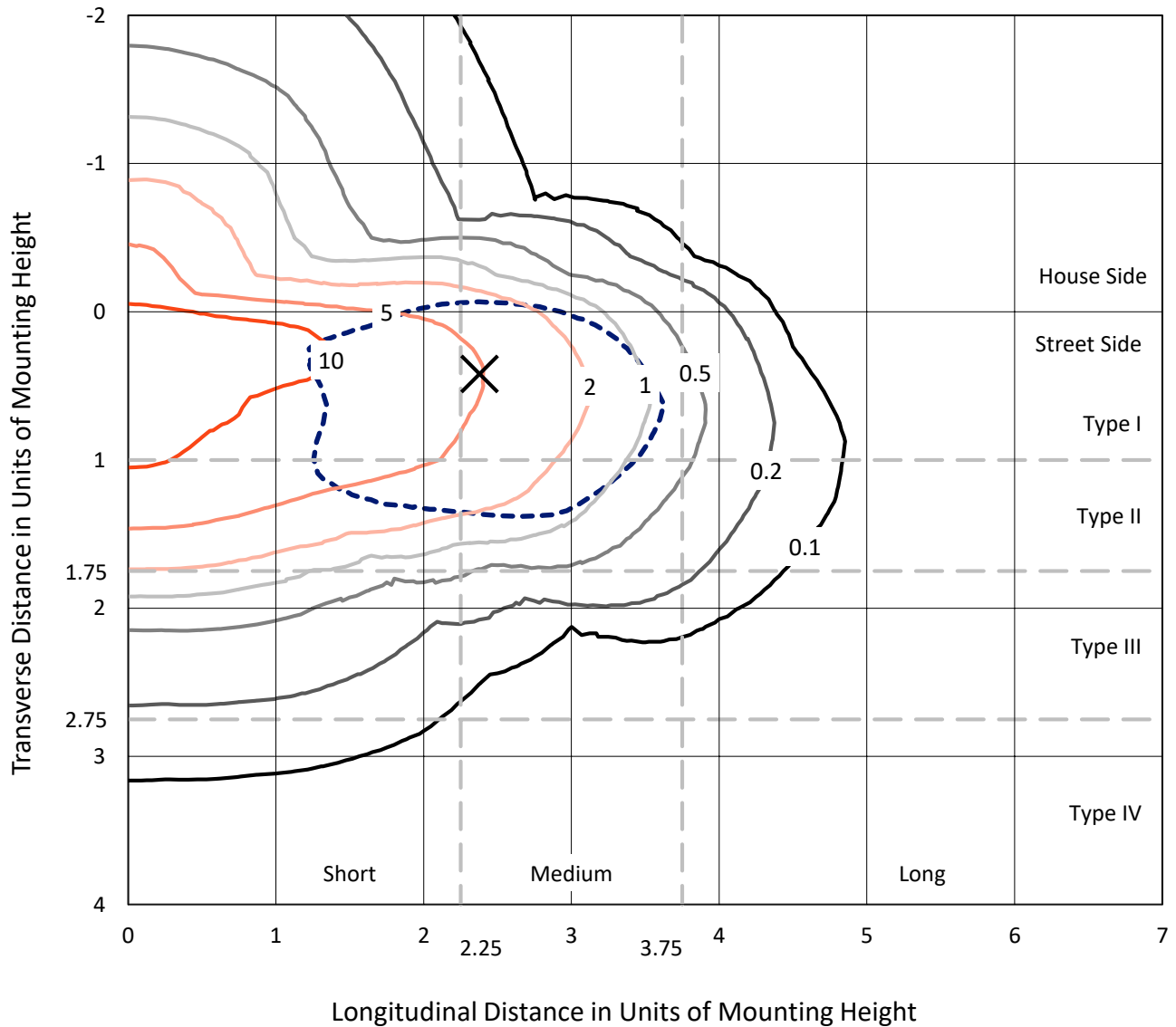
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

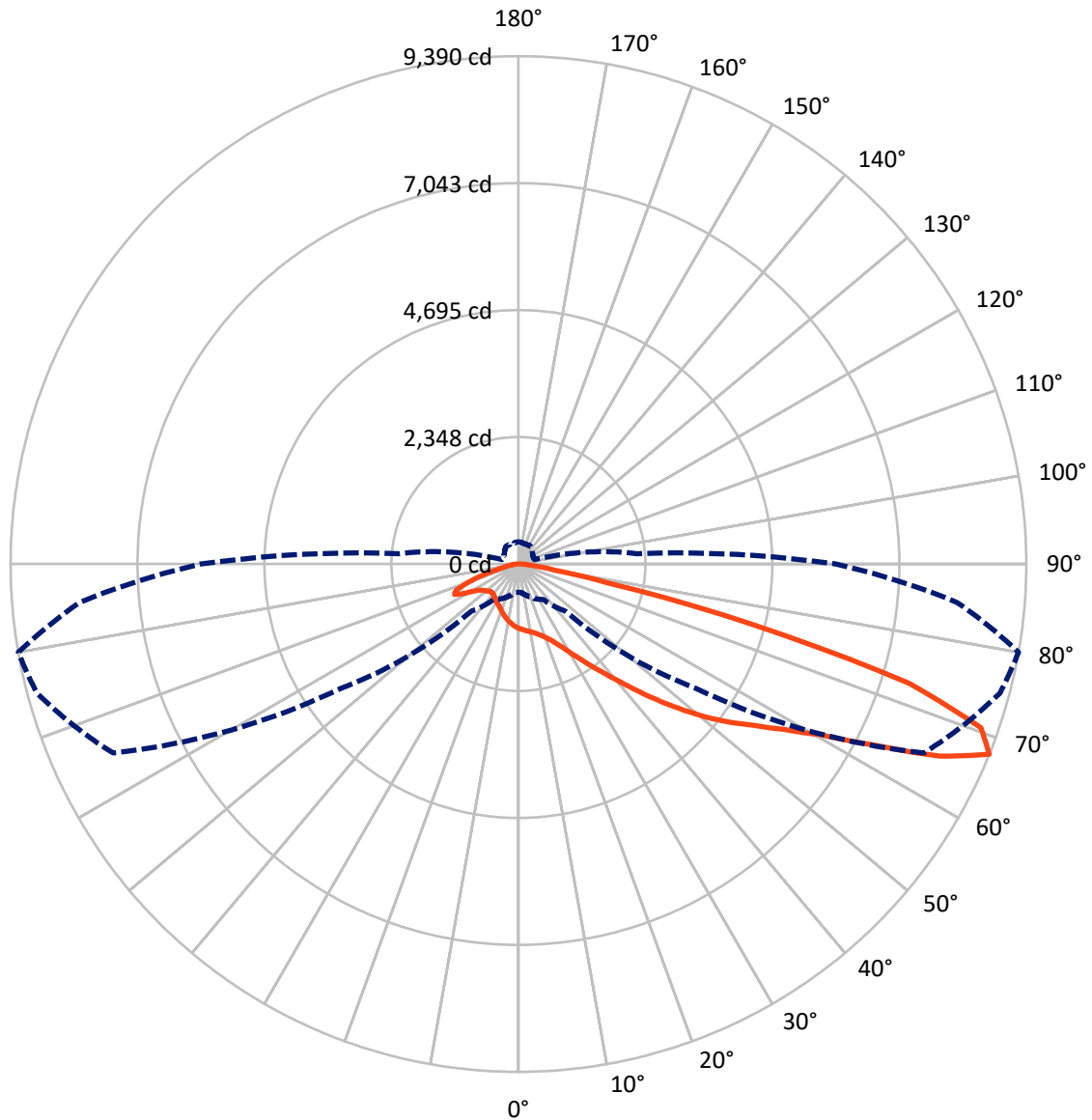
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.4 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1575.8	0.0	1575.8
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	6980.7	0.0	6980.7
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	8556.5	0.0	8556.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.7	1.3
10°-20°	315.9	3.7
20°-30°	522.9	6.1
30°-40°	855.3	10.0
40°-50°	1380.9	16.1
50°-60°	1993.7	23.3
60°-70°	2200.1	25.7
70°-80°	1014.1	11.9
80°-90°	164.0	1.9
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°	8556.5	100.0
0°-180°	8556.5	100.0

**Coefficient of Utilization**



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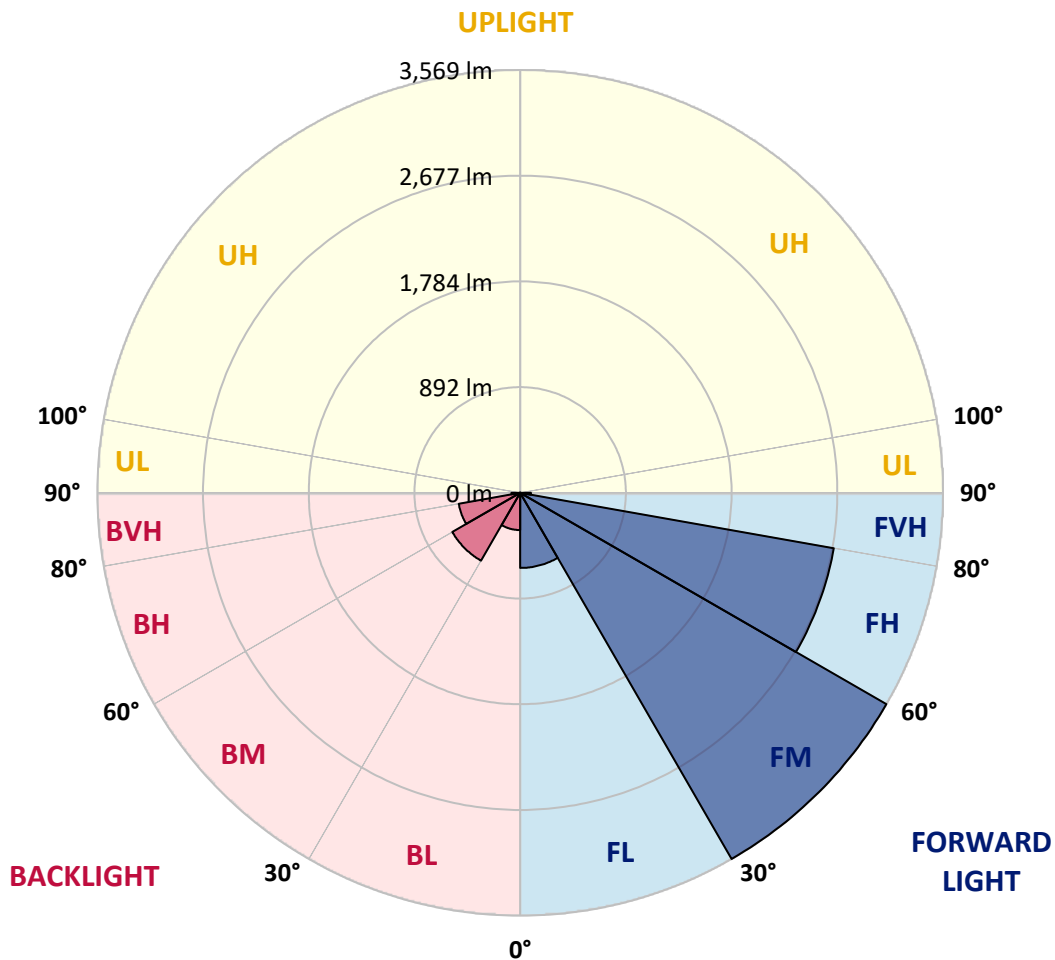
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	634.0	7.4			
FM (30°-60°)	3568.7	41.7			
FH (60°-80°)	2687.8	31.4			G2/5000
FVH (80°-90°)	90.2	1.1			G1/100
BL (0°-30°)	314.4	3.7	B1/500		
BM (30°-60°)	661.1	7.7	B1/1000		
BH (60°-80°)	526.4	6.2	B2/1000		G2/1000
BVH (80°-90°)	73.8	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	1188.7	1188.7	1188.7	1188.7	1188.7	1188.7	1188.7	1188.7	1188.7	1188.7	1188.7
2.5°	1300.3	1292.8	1294.1	1291.9	1285.7	1274.7	1262.8	1241.4	1219.1	1207.3	1198.0
5°	1409.1	1406.9	1404.1	1397.3	1381.2	1358.4	1330.3	1292.4	1251.5	1230.0	1209.4
7.5°	1490.4	1489.1	1485.3	1481.0	1465.6	1438.1	1395.5	1341.7	1282.3	1252.7	1220.7
10°	1497.1	1499.2	1502.1	1513.6	1515.6	1500.9	1457.5	1392.3	1314.3	1276.4	1235.4
12.5°	1439.9	1444.5	1455.9	1484.9	1515.6	1533.8	1511.4	1445.4	1351.8	1305.9	1254.0
15°	1363.9	1366.5	1380.4	1420.4	1475.6	1531.6	1552.7	1503.9	1400.2	1343.8	1281.8
17.5°	1331.6	1332.8	1342.4	1369.0	1420.4	1500.4	1575.8	1567.5	1459.7	1390.9	1315.9
20°	1315.1	1318.1	1331.9	1358.1	1390.5	1460.5	1579.2	1636.2	1530.4	1450.0	1359.0
22.5°	1361.9	1360.7	1365.7	1378.7	1406.0	1448.2	1576.7	1706.9	1620.5	1525.7	1415.0
25°	1471.0	1475.6	1466.8	1452.0	1460.9	1490.4	1590.2	1783.6	1733.4	1623.1	1488.2
27.5°	1626.4	1621.8	1608.8	1574.2	1556.0	1568.7	1634.8	1866.0	1873.8	1751.2	1585.1
30°	1781.5	1777.7	1765.0	1722.9	1685.8	1675.2	1721.6	1960.9	2040.9	1904.9	1703.9
32.5°	1942.3	1938.2	1926.3	1884.3	1839.5	1815.1	1845.1	2070.5	2238.0	2088.5	1843.9
35°	2140.8	2132.8	2108.0	2049.4	2005.6	1986.6	2000.4	2208.2	2465.6	2305.9	2013.6
37.5°	2327.4	2339.5	2314.4	2233.5	2176.6	2169.9	2185.4	2376.2	2710.7	2548.9	2208.7
40°	2514.8	2517.0	2494.2	2428.1	2369.5	2358.6	2397.8	2580.1	3000.1	2839.6	2445.7
42.5°	2708.6	2712.8	2674.4	2613.3	2570.4	2572.6	2617.2	2819.1	3332.1	3182.1	2718.7
45°	2938.1	2944.6	2902.3	2822.4	2783.2	2861.9	2843.4	3086.8	3695.9	3571.3	3032.0
47.5°	3178.4	3187.9	3155.9	3080.9	3032.0	3140.4	3069.6	3383.8	4087.7	3988.7	3376.3
50°	3309.3	3323.2	3354.5	3348.9	3338.5	3320.2	3321.9	3702.4	4491.7	4423.6	3730.1
52.5°	3239.0	3238.5	3352.2	3490.5	3637.9	3648.8	3629.4	4038.1	4869.2	4848.5	4063.4
55°	2917.2	2939.1	3111.3	3378.9	3781.5	4033.0	4090.3	4422.6	5239.9	5263.9	4401.5
57.5°	2381.2	2399.5	2631.9	3004.7	3587.7	4261.3	4745.7	4981.6	5654.4	5766.4	4851.8
60°	1615.1	1636.9	1883.3	2331.2	3066.3	4134.1	5369.6	5979.2	6150.6	6405.5	5483.8
62.5°	949.1	968.8	1169.9	1470.5	2158.8	3543.1	5643.4	7398.4	6938.8	7369.6	6447.6
65°	653.3	666.8	764.5	915.4	1240.6	2386.3	5304.0	8378.1	8151.5	8564.4	7565.2
67.5°	525.7	524.0	601.5	704.4	798.8	1230.5	4010.8	8267.3	9218.0	9390.4	8145.2
70°	433.1	431.4	483.9	569.0	638.2	693.0	2184.6	6976.6	9000.7	9070.6	7611.1
72.5°	362.2	364.0	397.7	460.8	523.6	521.9	960.0	4907.9	7080.7	7564.3	6067.2
75°	305.9	306.7	329.0	373.6	425.1	420.3	520.7	2659.0	4115.9	4452.5	3363.3
77.5°	260.2	261.1	275.5	300.4	337.0	335.2	380.0	1148.8	1717.0	1695.9	1150.4
80°	232.1	232.1	238.9	243.5	263.7	256.0	281.8	551.7	725.8	670.1	459.2
82.5°	181.9	182.8	224.0	222.4	207.7	197.9	197.9	325.1	384.7	355.5	268.8
85°	102.3	102.0	144.4	174.5	182.8	139.4	138.2	181.9	209.3	184.5	130.2
87.5°	43.7	44.6	67.0	77.6	103.7	86.7	85.5	94.0	106.5	92.3	60.2
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1188.7	1188.7	1188.7	1188.7	1188.7	1188.7	1188.7	1188.7	1188.7	1188.7	1188.7
2.5°	1189.1	1178.2	1154.2	1124.3	1097.3	1079.7	1063.7	1040.4	1041.8	1025.8	1013.9
5°	1188.4	1165.6	1109.9	1043.8	980.2	934.3	899.8	868.7	861.0	846.3	837.4
7.5°	1189.1	1152.0	1058.7	952.8	874.1	815.9	786.5	770.0	766.3	761.3	761.7
10°	1192.1	1139.9	1002.1	867.8	785.2	746.9	739.8	744.8	750.7	752.3	752.8
12.5°	1198.9	1128.9	940.3	791.9	729.7	717.7	730.1	747.3	758.7	764.2	763.6
15°	1214.0	1120.5	880.8	732.6	698.8	705.2	727.8	752.3	768.8	776.3	776.8
17.5°	1230.5	1108.2	819.8	687.1	676.2	692.1	720.4	748.9	769.2	777.7	779.3
20°	1252.0	1093.1	755.7	652.9	654.7	672.7	699.3	727.8	750.3	757.5	760.8
22.5°	1280.2	1076.7	699.7	625.1	630.3	644.1	664.7	689.5	708.9	712.4	715.3
25°	1318.1	1059.0	655.0	599.9	602.0	609.9	623.9	638.6	652.1	648.2	651.2
27.5°	1369.0	1043.8	621.7	576.7	572.8	574.6	581.7	586.4	593.5	583.0	584.3
30°	1428.8	1027.4	596.0	556.5	545.9	542.9	544.6	547.2	552.6	538.4	536.3
32.5°	1498.4	1007.5	572.0	538.8	524.0	518.1	519.0	525.7	546.8	537.9	533.4
35°	1579.2	985.4	546.8	519.4	509.2	500.9	500.0	521.0	583.9	578.4	574.1
37.5°	1674.0	963.0	521.5	497.5	498.3	489.0	486.2	510.1	591.1	569.5	566.7
40°	1794.5	951.1	500.0	474.3	484.8	483.6	477.7	489.9	543.8	504.7	499.5
42.5°	1943.7	952.8	483.9	449.4	468.8	482.3	473.0	473.4	492.9	463.3	458.8
45°	2127.7	972.7	472.7	429.7	450.7	481.0	471.4	464.7	466.3	450.7	448.3
47.5°	2342.5	1013.5	464.7	413.2	433.4	476.5	470.9	462.1	458.3	450.0	447.7
50°	2581.4	1072.9	458.8	397.7	417.9	468.8	471.4	459.6	455.4	451.9	450.7
52.5°	2816.0	1140.8	450.0	384.1	405.7	459.6	472.7	457.1	452.4	450.0	448.7
55°	3077.7	1225.4	436.3	372.7	395.6	447.7	472.7	453.3	448.3	448.7	448.3
57.5°	3431.0	1362.3	420.3	363.2	383.3	433.4	464.7	449.1	442.8	443.1	443.6
60°	3983.4	1603.7	401.1	353.5	368.1	416.6	453.6	439.8	433.4	435.1	435.6
62.5°	4795.4	1957.9	375.8	339.1	352.1	398.5	438.6	428.0	421.7	425.8	425.8
65°	5639.6	2270.6	344.6	321.0	335.2	378.6	419.6	413.2	406.9	416.6	416.2
67.5°	5866.7	2200.6	313.4	301.2	318.4	356.7	396.8	393.5	390.0	406.9	406.0
70°	5211.6	1766.6	284.8	281.0	299.9	333.2	372.3	372.3	370.3	382.9	380.0
72.5°	3970.7	1252.7	257.4	259.5	278.8	307.5	345.8	348.8	345.4	351.7	349.3
75°	2125.6	716.9	230.0	235.9	252.8	281.3	316.4	319.3	317.2	316.8	318.0
77.5°	706.4	350.5	201.4	210.7	225.4	254.4	285.7	290.2	285.2	284.4	284.0
80°	314.6	220.4	169.8	181.9	195.0	223.7	253.1	256.9	251.4	259.2	249.4
82.5°	202.2	144.8	136.1	149.6	162.1	193.0	220.8	221.6	216.5	251.4	214.4
85°	98.2	89.7	102.3	114.5	125.6	151.6	182.8	183.3	170.6	155.4	149.9
87.5°	48.9	52.2	68.2	79.2	84.7	104.1	133.0	130.6	125.1	113.7	104.9
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)