

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: P270196

Luminaire Tested: **GWC-AF-02-LED-E1-5NQ-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P270196  
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-7027-1200  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12212.6 lumens  
Efficiency: N/A  
Efficacy: 94.7 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 - G2

Input Watts (W): 129  
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

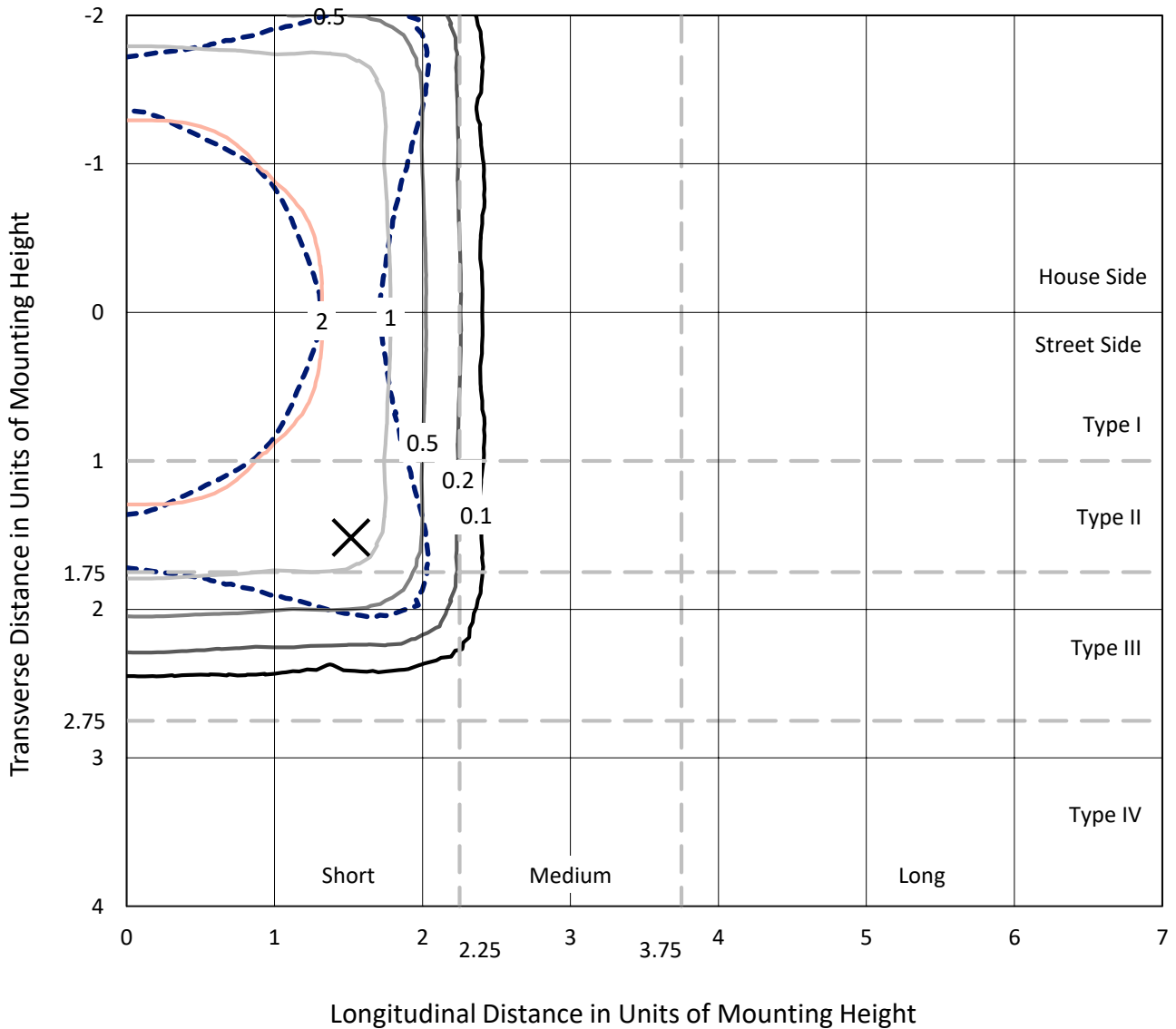


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### Iso-Footcandle Lines of Horizontal Illumination

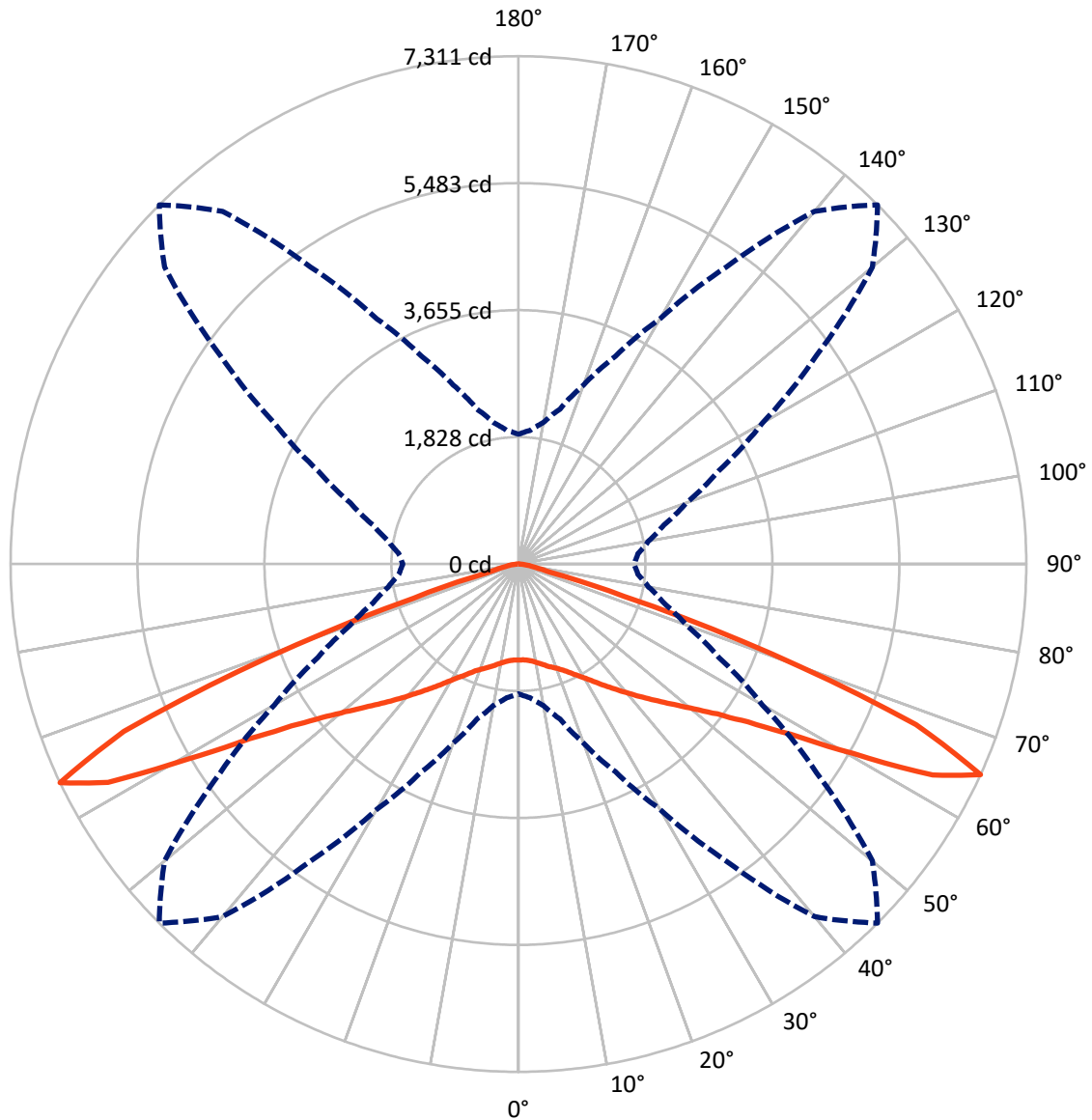
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.5 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	6106.3	0.0	6106.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6106.3	0.0	6106.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12212.6	0.0	12212.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.7	1.1
10°-20°	432.0	3.5
20°-30°	807.7	6.6
30°-40°	1366.0	11.2
40°-50°	2233.6	18.3
50°-60°	3551.8	29.1
60°-70°	3210.6	26.3
70°-80°	406.3	3.3
80°-90°	69.9	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°	12212.6	100.0
0°-180°	12212.6	100.0



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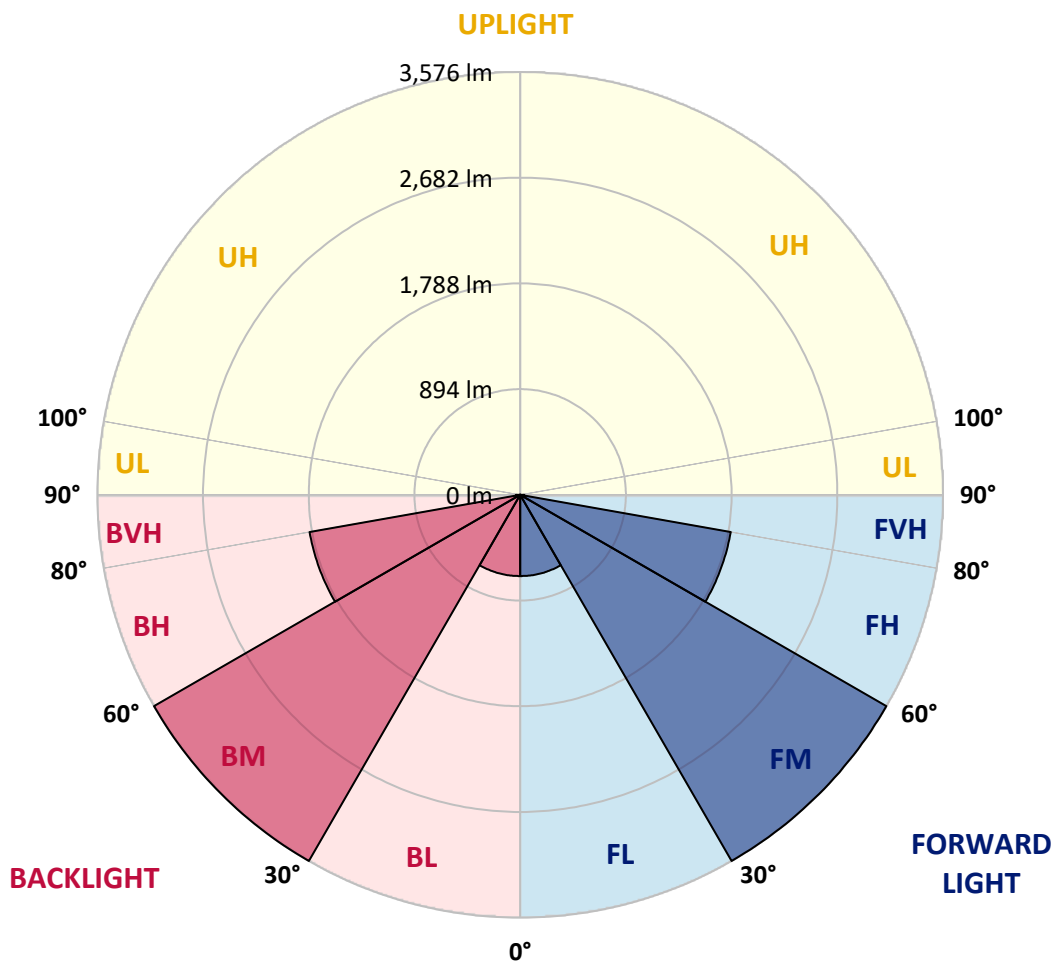
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	687.2	5.6			
FM	(30°-60°)	3575.7	29.3			
FH	(60°-80°)	1808.5	14.8			G2/5000
FVH	(80°-90°)	34.9	0.3			G1/100
BL	(0°-30°)	687.2	5.6	B2/1000		
BM	(30°-60°)	3575.7	29.3	B3/5000		
BH	(60°-80°)	1808.5	14.8	B3/2500		G2/5000
BVH	(80°-90°)	34.9	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-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9
2.5°	1383.0	1384.2	1385.2	1384.2	1385.2	1383.6	1382.4	1384.2	1382.4	1380.8	1381.9
5°	1395.0	1395.5	1395.5	1393.9	1395.5	1394.4	1392.7	1395.0	1393.4	1391.6	1392.7
7.5°	1415.0	1417.3	1415.5	1413.9	1415.0	1413.9	1412.8	1413.4	1412.8	1411.1	1411.5
10°	1441.9	1443.7	1442.5	1441.9	1443.0	1442.5	1441.3	1440.8	1441.3	1439.7	1439.7
12.5°	1474.5	1473.9	1473.4	1473.9	1475.6	1475.6	1475.0	1475.6	1476.9	1477.4	1476.3
15°	1506.5	1507.6	1507.6	1507.6	1511.0	1514.0	1515.7	1516.9	1519.2	1519.8	1517.3
17.5°	1546.6	1546.6	1546.1	1546.6	1550.0	1554.5	1556.4	1558.6	1560.8	1562.6	1559.7
20°	1591.2	1592.3	1592.3	1593.6	1598.1	1603.2	1603.2	1604.4	1603.2	1604.4	1602.7
22.5°	1645.5	1649.0	1649.0	1649.6	1654.0	1660.3	1658.7	1660.3	1657.6	1659.9	1657.6
25°	1716.4	1721.6	1720.4	1720.4	1723.8	1727.9	1728.5	1731.9	1731.4	1734.2	1732.6
27.5°	1796.5	1804.5	1806.9	1806.2	1808.6	1812.5	1813.7	1817.7	1815.5	1817.7	1816.6
30°	1892.5	1896.1	1900.6	1902.3	1905.2	1909.2	1909.2	1909.7	1906.9	1910.3	1912.0
32.5°	1992.1	1998.4	2003.0	2013.3	2018.4	2021.4	2020.7	2021.8	2019.0	2023.6	2027.0
35°	2123.8	2128.3	2135.7	2143.7	2150.6	2150.1	2148.2	2148.8	2148.8	2152.9	2156.3
37.5°	2282.1	2283.3	2293.1	2304.4	2307.8	2304.4	2294.1	2291.8	2286.6	2291.8	2297.5
40°	2449.7	2453.7	2473.2	2480.6	2482.2	2476.0	2461.1	2452.6	2441.1	2447.4	2455.4
42.5°	2625.2	2633.3	2651.1	2664.3	2669.9	2665.9	2645.2	2632.2	2617.3	2620.7	2628.7
45°	2819.8	2829.5	2854.6	2867.2	2878.1	2871.8	2851.8	2831.7	2808.3	2810.1	2822.7
47.5°	3037.1	3046.8	3079.4	3100.6	3106.2	3105.3	3082.9	3055.4	3023.3	3022.3	3033.0
50°	3280.8	3290.5	3331.2	3363.8	3380.3	3378.5	3352.2	3313.4	3274.5	3275.0	3288.8
52.5°	3518.8	3530.7	3573.1	3629.2	3661.8	3685.1	3669.1	3632.6	3585.0	3586.3	3598.8
55°	3741.8	3761.8	3810.4	3886.4	3947.2	4012.9	4031.8	4030.6	4001.9	4010.0	4022.6
57.5°	3849.9	3879.6	3954.6	4074.6	4198.1	4332.0	4445.4	4530.0	4565.9	4620.3	4607.8
60°	3645.1	3692.7	3803.0	3979.8	4223.9	4503.1	4802.2	5094.5	5343.8	5532.0	5424.0
62.5°	2984.4	3046.2	3180.1	3406.6	3776.0	4222.8	4795.3	5486.3	6239.0	6693.1	6368.9
65°	1867.4	1931.5	2067.7	2310.1	2742.5	3297.9	4074.6	5219.7	6626.2	7310.9	6650.8
67.5°	728.0	763.0	836.9	991.8	1316.6	1810.9	2590.4	3889.9	5572.0	6172.1	5468.5
70°	364.9	368.3	382.0	410.6	480.5	624.1	949.5	1803.3	3195.5	3859.6	3080.6
72.5°	263.7	264.2	271.1	283.7	306.1	338.0	399.7	552.0	1039.2	1588.4	974.0
75°	201.8	204.2	208.1	215.1	227.1	243.1	265.4	318.0	394.0	457.0	384.4
77.5°	155.5	160.2	163.0	169.3	176.7	187.6	193.9	213.8	248.8	261.9	258.0
80°	118.3	122.3	128.6	133.8	139.0	144.2	141.8	150.9	169.3	180.2	174.5
82.5°	75.5	80.0	98.4	102.9	105.2	108.7	104.7	105.2	113.2	120.2	113.2
85°	48.6	51.5	62.3	68.0	68.6	71.0	69.2	65.1	65.1	59.5	67.0
87.5°	22.3	22.8	28.0	33.1	34.3	30.9	30.4	29.1	23.4	22.3	24.1
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°	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9	1381.9
2.5°	1381.2	1382.4	1383.0	1384.6	1385.2	1385.2	1385.8	1387.1
5°	1392.2	1393.9	1394.4	1396.8	1397.4	1396.8	1397.9	1398.4
7.5°	1411.5	1414.4	1415.5	1417.9	1416.2	1418.5	1419.1	1419.1
10°	1440.3	1443.0	1443.7	1445.9	1444.7	1445.9	1445.9	1444.7
12.5°	1477.9	1478.5	1476.9	1478.5	1476.3	1477.4	1475.6	1474.5
15°	1519.8	1518.0	1514.0	1514.0	1510.6	1511.0	1510.6	1510.1
17.5°	1560.4	1556.9	1554.0	1552.9	1550.0	1549.4	1547.7	1547.7
20°	1604.9	1603.2	1601.5	1599.3	1596.4	1593.6	1593.0	1594.0
22.5°	1658.7	1658.1	1658.1	1657.0	1653.1	1650.0	1648.4	1648.4
25°	1730.8	1725.6	1725.6	1725.0	1723.3	1721.6	1718.2	1719.8
27.5°	1812.1	1809.0	1811.4	1810.9	1809.0	1809.0	1806.9	1806.9
30°	1912.0	1911.0	1914.4	1911.6	1905.8	1905.2	1902.9	1900.1
32.5°	2027.7	2026.4	2031.5	2028.2	2019.0	2013.9	2009.2	2007.1
35°	2156.3	2156.9	2163.2	2160.9	2150.6	2147.2	2139.1	2138.0
37.5°	2297.0	2306.2	2317.0	2319.3	2310.7	2308.5	2299.9	2295.3
40°	2462.3	2474.3	2490.9	2495.0	2485.7	2484.1	2472.0	2465.7
42.5°	2638.4	2659.1	2679.6	2683.1	2674.0	2664.7	2653.4	2648.7
45°	2835.2	2859.8	2886.8	2893.5	2879.8	2868.9	2854.1	2854.1
47.5°	3056.0	3086.8	3117.2	3136.1	3123.4	3112.1	3094.3	3082.9
50°	3316.8	3359.1	3398.6	3418.1	3398.0	3376.3	3345.4	3335.0
52.5°	3644.0	3689.7	3724.1	3713.8	3682.8	3652.6	3618.8	3605.1
55°	4061.4	4077.0	4077.0	4038.1	3976.3	3925.4	3872.1	3854.4
57.5°	4583.7	4524.3	4432.6	4316.5	4170.7	4043.8	3958.0	3917.4
60°	5197.5	4911.5	4588.3	4270.8	4010.0	3795.0	3667.4	3609.1
62.5°	5606.3	4858.3	4210.7	3701.1	3326.0	3066.9	2890.7	2822.0
65°	5239.8	4051.7	3184.8	2575.0	2166.1	1902.3	1727.9	1663.8
67.5°	3837.9	2538.9	1695.9	1215.4	890.5	710.4	638.9	609.1
70°	1722.8	894.0	548.0	427.9	368.9	338.7	325.5	320.9
72.5°	519.3	375.9	316.8	286.0	262.6	247.7	236.9	235.6
75°	313.4	260.8	231.7	213.3	198.4	186.5	180.7	179.0
77.5°	219.0	191.6	177.9	164.7	153.3	144.2	139.0	134.9
80°	153.9	140.8	134.3	127.0	119.6	111.0	103.6	100.2
82.5°	102.9	100.2	100.2	95.5	89.2	81.2	66.4	62.9
85°	66.4	65.8	67.0	65.1	60.6	52.0	42.8	40.7
87.5°	30.9	31.5	34.9	34.3	33.1	27.5	21.6	20.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)