

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: P200074

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200074  
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-1200  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 4000K, 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: 14379.6 lumens  
Efficiency: N/A  
Efficacy: 111.5 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

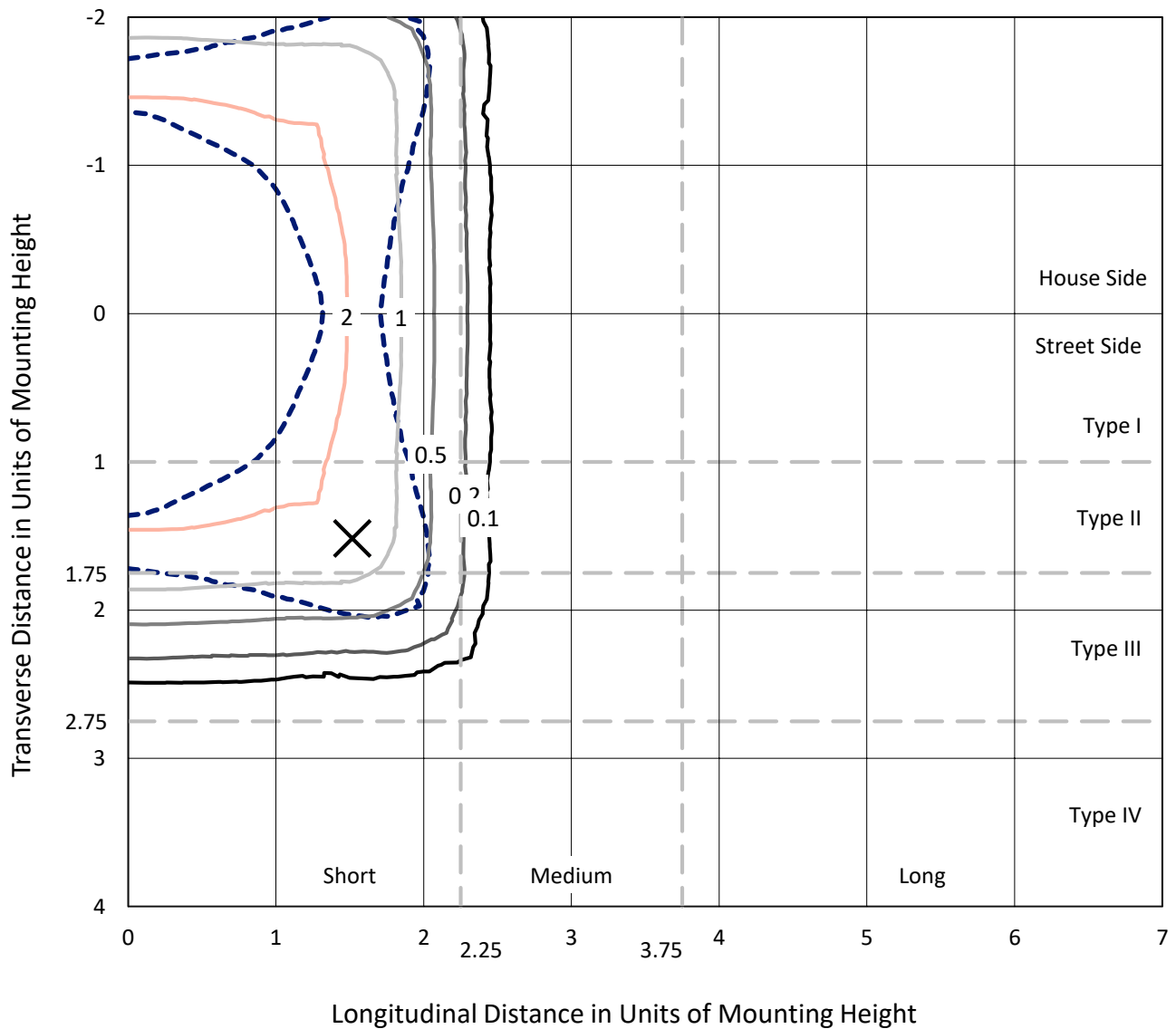


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### Iso-Footcandle Lines of Horizontal Illumination

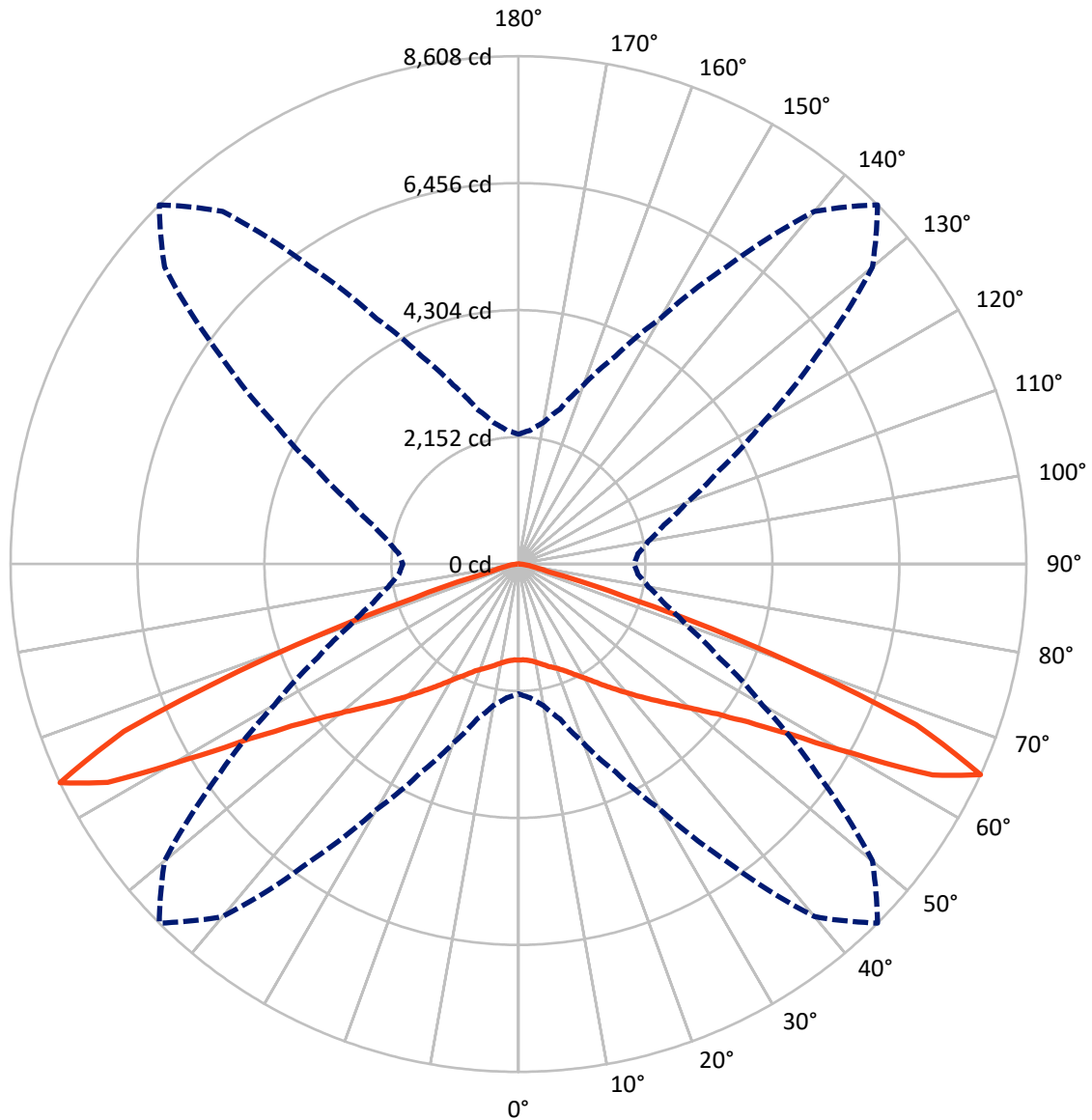
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 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	7189.8	0.0	7189.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7189.8	0.0	7189.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	14379.6	0.0	14379.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.6	1.1
10°-20°	508.6	3.5
20°-30°	951.0	6.6
30°-40°	1608.4	11.2
40°-50°	2629.9	18.3
50°-60°	4182.0	29.1
60°-70°	3780.3	26.3
70°-80°	478.4	3.3
80°-90°	82.3	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°	14379.6	100.0
0°-180°	14379.6	100.0



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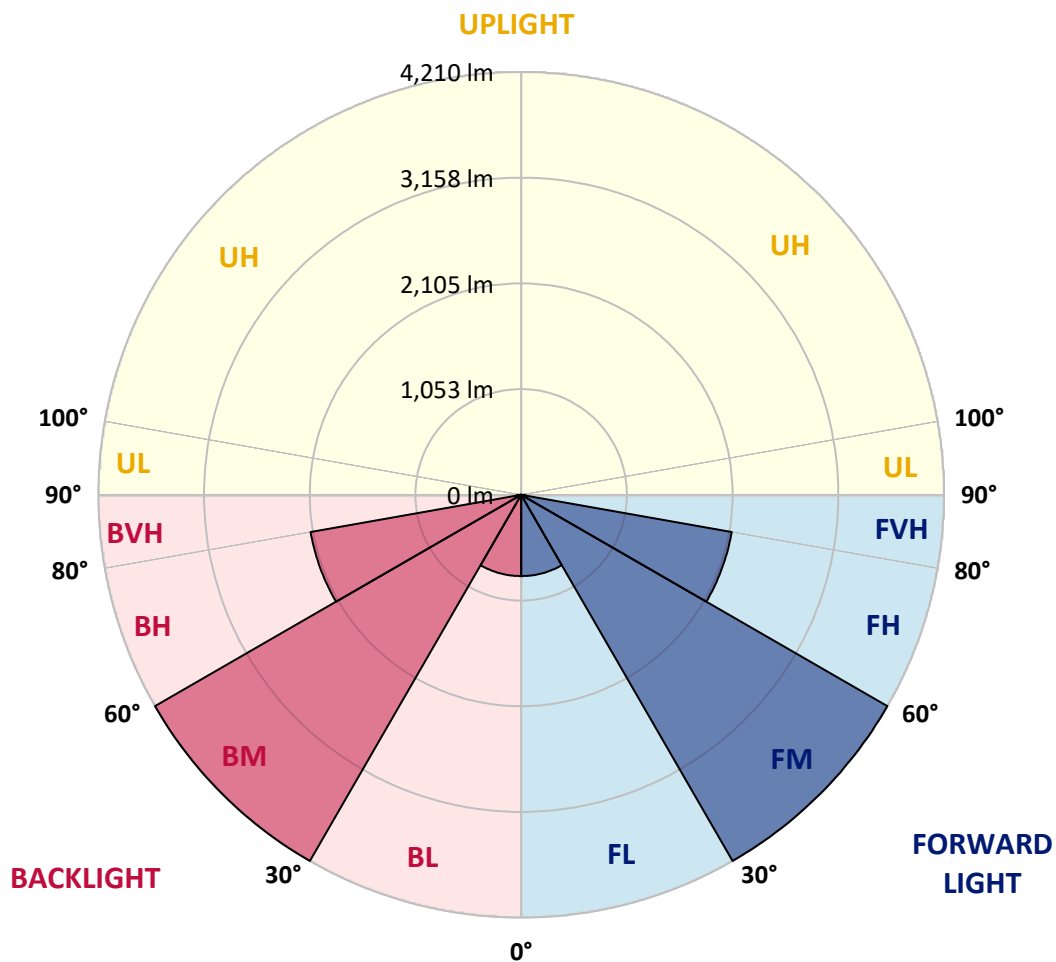
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	809.1	5.6			
FM	(30°-60°)	4210.2	29.3			
FH	(60°-80°)	2129.3	14.8			G2/5000
FVH	(80°-90°)	41.2	0.3			G1/100
BL	(0°-30°)	809.1	5.6	B2/1000		
BM	(30°-60°)	4210.2	29.3	B3/5000		
BH	(60°-80°)	2129.3	14.8	B3/2500		G2/5000
BVH	(80°-90°)	41.2	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-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1627.1	1627.1	1627.1	1627.1	1627.1	1627.1	1627.1	1627.1	1627.1	1627.1	1627.1
2.5°	1628.4	1629.8	1631.1	1629.8	1631.1	1629.0	1627.7	1629.8	1627.7	1625.7	1627.1
5°	1642.6	1643.3	1643.3	1641.2	1643.3	1641.8	1639.9	1642.6	1640.5	1638.5	1639.9
7.5°	1666.1	1668.8	1666.8	1664.8	1666.1	1664.8	1663.4	1664.1	1663.4	1661.4	1662.1
10°	1697.8	1699.8	1698.4	1697.8	1699.1	1698.4	1697.1	1696.5	1697.1	1695.0	1695.0
12.5°	1736.2	1735.5	1734.8	1735.5	1737.5	1737.5	1736.9	1737.5	1738.8	1739.5	1738.2
15°	1773.9	1775.2	1775.2	1775.2	1779.2	1782.6	1784.6	1786.0	1788.7	1789.3	1786.7
17.5°	1821.1	1821.1	1820.3	1821.1	1825.0	1830.5	1832.5	1835.2	1837.8	1839.9	1836.5
20°	1873.5	1874.9	1874.9	1876.2	1881.6	1887.7	1887.7	1889.1	1887.7	1889.1	1887.0
22.5°	1937.6	1941.6	1941.6	1942.3	1947.6	1955.1	1953.0	1955.1	1951.7	1954.3	1951.7
25°	2021.0	2027.1	2025.7	2025.7	2029.7	2034.5	2035.2	2039.3	2038.5	2041.9	2039.9
27.5°	2115.4	2124.8	2127.4	2126.7	2129.5	2134.2	2135.5	2140.2	2137.6	2140.2	2138.9
30°	2228.5	2232.5	2237.9	2239.9	2243.2	2247.9	2247.9	2248.7	2245.3	2249.4	2251.3
32.5°	2345.6	2353.1	2358.4	2370.6	2376.6	2380.0	2379.3	2380.6	2377.3	2382.7	2386.7
35°	2500.5	2505.9	2514.7	2524.1	2532.2	2531.5	2529.5	2530.2	2530.2	2534.9	2539.0
37.5°	2687.1	2688.4	2699.9	2713.4	2717.4	2713.4	2701.2	2698.5	2692.5	2698.5	2705.3
40°	2884.4	2889.1	2912.0	2920.7	2922.8	2915.4	2897.9	2887.8	2874.3	2881.8	2891.2
42.5°	3091.2	3100.6	3121.4	3137.0	3143.6	3138.9	3114.7	3099.2	3081.7	3085.7	3095.1
45°	3320.1	3331.5	3361.2	3376.0	3388.8	3381.4	3357.8	3334.3	3306.7	3308.6	3323.5
47.5°	3576.0	3587.5	3625.8	3650.8	3657.6	3656.1	3629.9	3597.6	3559.9	3558.5	3571.3
50°	3863.0	3874.3	3922.2	3960.6	3980.1	3978.1	3947.1	3901.3	3855.5	3856.2	3872.4
52.5°	4143.1	4157.3	4207.1	4273.1	4311.4	4339.1	4320.2	4277.1	4221.2	4222.5	4237.4
55°	4405.7	4429.3	4486.6	4576.1	4647.5	4724.9	4747.2	4745.8	4712.1	4721.5	4736.4
57.5°	4533.0	4568.0	4656.3	4797.6	4943.1	5100.7	5234.0	5333.8	5376.2	5440.2	5425.3
60°	4291.9	4347.8	4477.8	4685.9	4973.5	5302.1	5654.3	5998.5	6292.1	6513.6	6386.4
62.5°	3514.0	3586.8	3744.4	4011.1	4446.2	4972.1	5646.2	6459.7	7346.0	7880.7	7498.9
65°	2198.8	2274.2	2434.5	2720.0	3229.3	3883.1	4797.6	6145.9	7801.9	8608.0	7830.9
67.5°	857.3	898.4	985.3	1167.8	1550.3	2132.1	3050.0	4580.2	6560.8	7267.2	6438.9
70°	429.6	433.7	449.9	483.5	565.7	734.8	1117.9	2123.4	3762.6	4544.5	3627.2
72.5°	310.5	311.2	319.3	334.0	360.3	398.0	470.8	649.9	1223.7	1870.2	1146.9
75°	237.7	240.4	245.1	253.2	267.4	286.2	312.5	374.4	464.0	538.1	452.6
77.5°	183.2	188.5	191.9	199.4	208.1	220.9	228.3	251.9	293.0	308.4	303.7
80°	139.4	144.1	151.5	157.6	163.7	169.7	167.0	177.8	199.4	212.2	205.4
82.5°	88.9	94.3	115.8	121.2	123.9	128.0	123.3	123.9	133.4	141.5	133.4
85°	57.3	60.7	73.4	80.1	80.8	83.5	81.5	76.8	76.8	70.1	78.8
87.5°	26.3	26.9	33.0	39.1	40.4	36.4	35.7	34.4	27.6	26.3	28.3
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°	1627.1	1627.1	1627.1	1627.1	1627.1	1627.1	1627.1	1627.1
2.5°	1626.4	1627.7	1628.4	1630.4	1631.1	1631.1	1631.8	1633.1
5°	1639.2	1641.2	1641.8	1644.6	1645.2	1644.6	1645.9	1646.5
7.5°	1662.1	1665.5	1666.8	1669.5	1667.5	1670.2	1670.8	1670.8
10°	1695.7	1699.1	1699.8	1702.5	1701.2	1702.5	1702.5	1701.2
12.5°	1740.2	1740.9	1738.8	1740.9	1738.2	1739.5	1737.5	1736.2
15°	1789.3	1787.3	1782.6	1782.6	1778.6	1779.2	1778.6	1777.9
17.5°	1837.2	1833.1	1829.8	1828.4	1825.0	1824.4	1822.4	1822.4
20°	1889.7	1887.7	1885.7	1882.9	1879.6	1876.2	1875.6	1876.9
22.5°	1953.0	1952.3	1952.3	1951.0	1946.3	1942.9	1940.8	1940.8
25°	2037.8	2031.8	2031.8	2031.2	2029.1	2027.1	2023.1	2025.0
27.5°	2133.5	2130.1	2132.9	2132.1	2130.1	2130.1	2127.4	2127.4
30°	2251.3	2250.0	2254.1	2250.7	2243.9	2243.2	2240.6	2237.2
32.5°	2387.4	2386.0	2392.1	2388.1	2377.3	2371.2	2365.9	2363.1
35°	2539.0	2539.6	2547.0	2544.3	2532.2	2528.1	2518.7	2517.4
37.5°	2704.6	2715.3	2728.1	2730.9	2720.7	2718.1	2708.0	2702.5
40°	2899.2	2913.4	2932.9	2937.6	2926.9	2924.8	2910.7	2903.2
42.5°	3106.6	3130.8	3155.1	3159.2	3148.4	3137.6	3124.2	3118.8
45°	3338.3	3367.2	3399.0	3407.0	3390.9	3378.0	3360.5	3360.5
47.5°	3598.2	3634.6	3670.3	3692.5	3677.7	3664.2	3643.3	3629.9
50°	3905.3	3955.1	4001.7	4024.6	4001.0	3975.4	3939.0	3926.9
52.5°	4290.6	4344.5	4384.9	4372.7	4336.4	4300.7	4260.9	4244.7
55°	4782.2	4800.4	4800.4	4754.6	4681.8	4621.9	4559.3	4538.4
57.5°	5397.1	5327.0	5219.3	5082.5	4910.8	4761.3	4660.3	4612.5
60°	6119.7	5782.9	5402.4	5028.6	4721.5	4468.4	4318.2	4249.4
62.5°	6601.2	5720.3	4957.9	4357.9	3916.2	3611.0	3403.7	3322.9
65°	6169.5	4770.7	3749.8	3031.9	2550.3	2239.9	2034.5	1959.1
67.5°	4518.9	2989.5	1996.8	1431.1	1048.5	836.5	752.3	717.2
70°	2028.4	1052.6	645.2	503.7	434.3	398.6	383.2	377.8
72.5°	611.5	442.4	373.1	336.8	309.1	291.6	278.9	277.4
75°	369.1	307.1	272.7	251.2	233.6	219.5	212.8	210.8
77.5°	257.9	225.6	209.4	194.0	180.4	169.7	163.7	159.0
80°	181.2	165.7	158.3	149.6	140.8	130.6	121.9	117.8
82.5°	121.2	117.8	117.8	112.4	105.1	95.6	78.2	74.1
85°	78.2	77.4	78.8	76.8	71.4	61.3	50.5	47.8
87.5°	36.4	37.0	41.1	40.4	39.1	32.3	25.6	24.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)