

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: P191632

Luminaire Tested: **GLEON-AF-04-LED-E1-5NQ-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191632  
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-04-LED-E1-5NQ-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 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: 16319 lumens  
Efficiency: N/A  
Efficacy: 126.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' 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

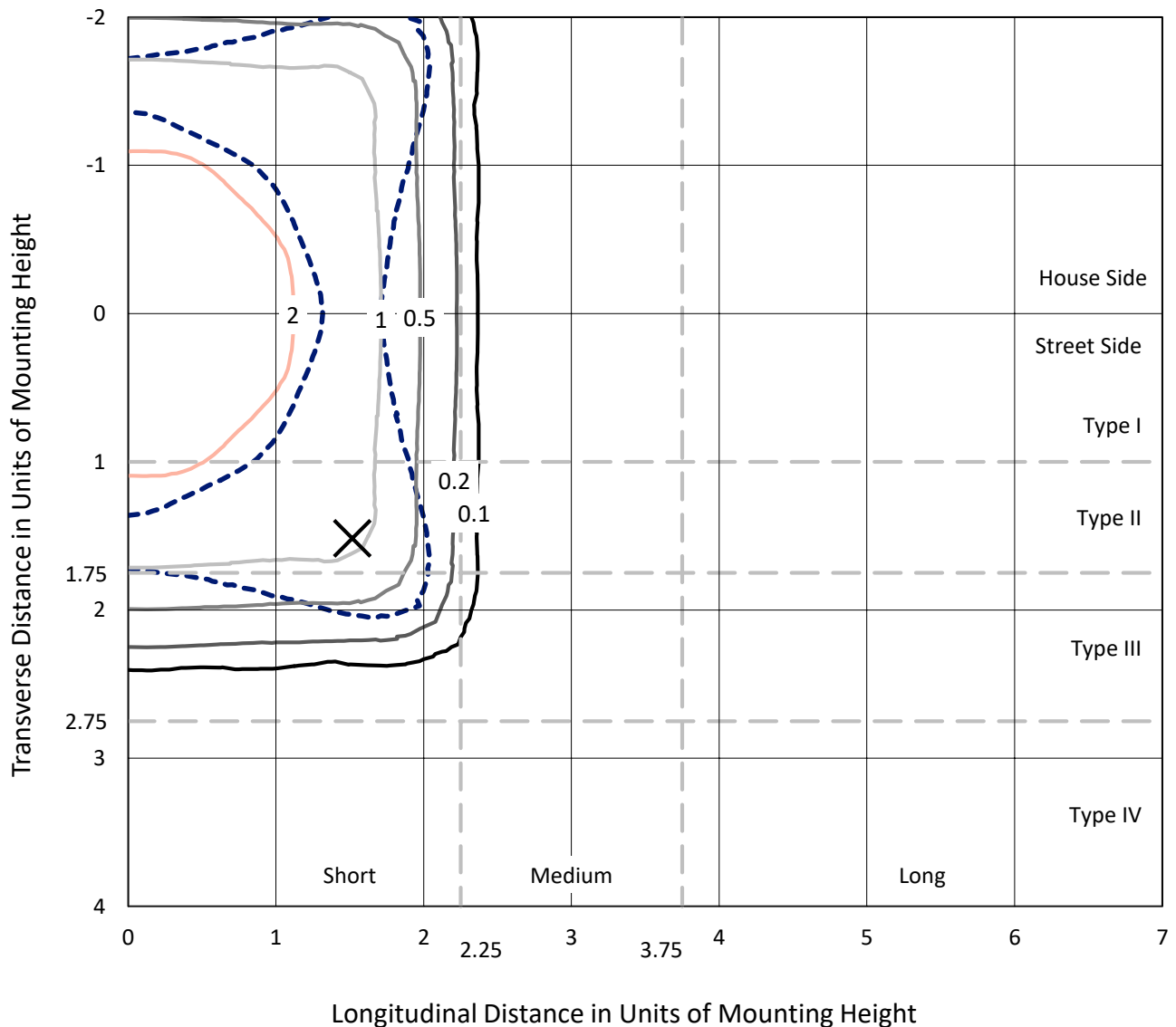


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

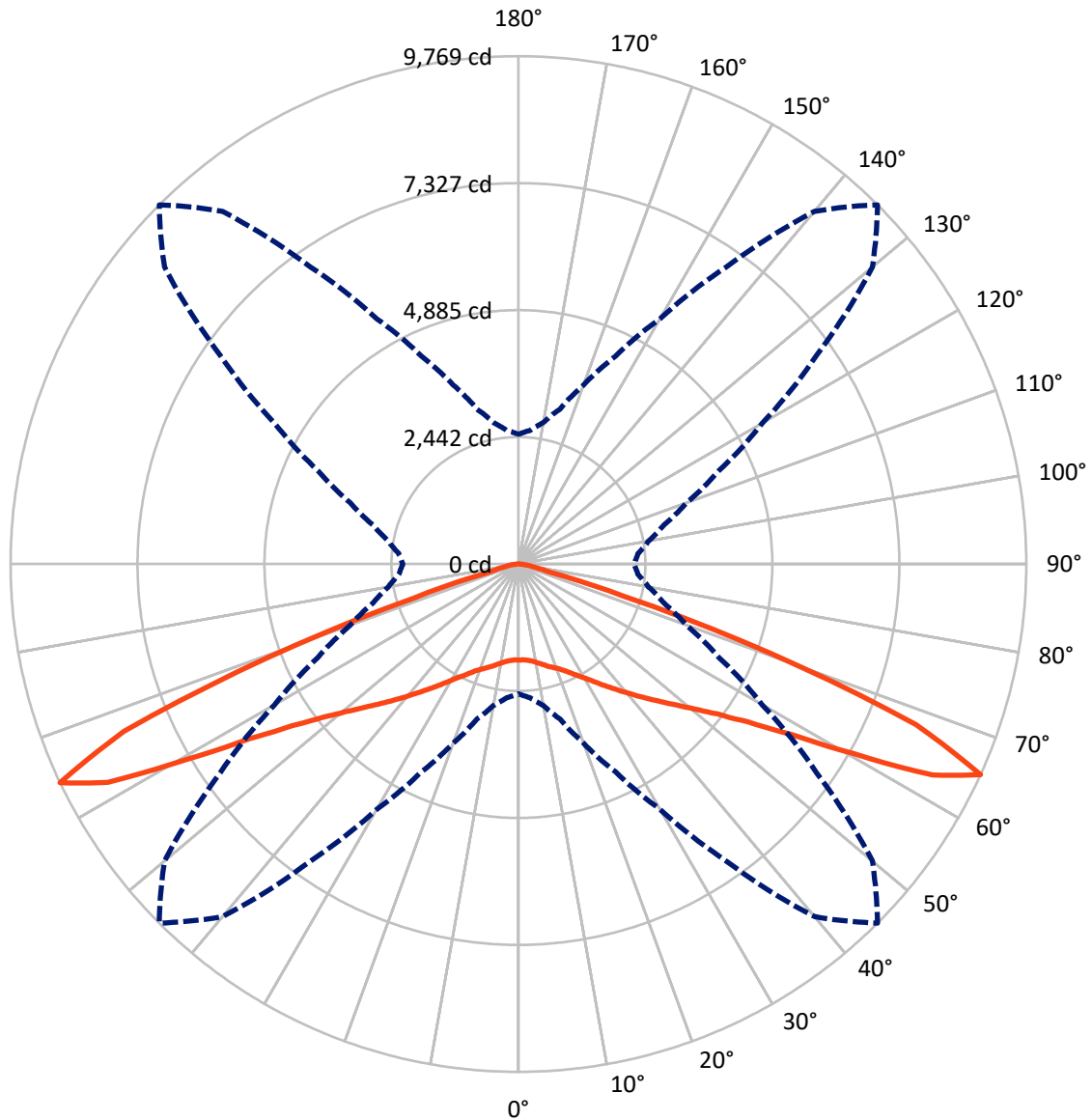


Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type V - Short - Full Cutoff

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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	8159.5	0.0	8159.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8159.5	0.0	8159.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16319.0	0.0	16319.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	180.0	1.1
10°-20°	577.2	3.5
20°-30°	1079.3	6.6
30°-40°	1825.4	11.2
40°-50°	2984.7	18.3
50°-60°	4746.1	29.1
60°-70°	4290.1	26.3
70°-80°	542.9	3.3
80°-90°	93.4	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°	16319.0	100.0
0°-180°	16319.0	100.0



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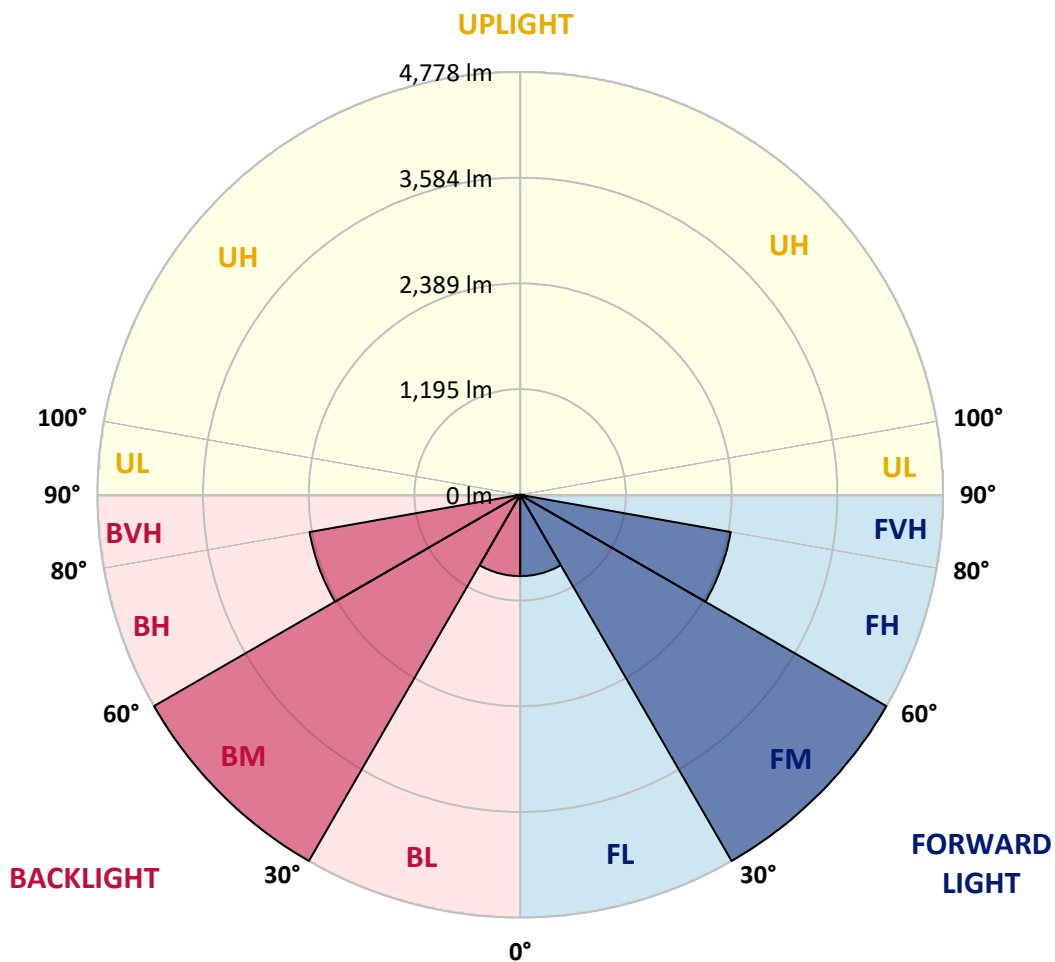
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	918.2	5.6			
FM	(30°-60°)	4778.0	29.3			
FH	(60°-80°)	2416.5	14.8			G2/5000
FVH	(80°-90°)	46.7	0.3			G1/100
BL	(0°-30°)	918.2	5.6	B2/1000		
BM	(30°-60°)	4778.0	29.3	B3/5000		
BH	(60°-80°)	2416.5	14.8	B3/2500		G2/5000
BVH	(80°-90°)	46.7	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-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1846.5	1846.5	1846.5	1846.5	1846.5	1846.5	1846.5	1846.5	1846.5	1846.5	1846.5
2.5°	1848.0	1849.6	1851.1	1849.6	1851.1	1848.8	1847.3	1849.6	1847.3	1845.0	1846.5
5°	1864.1	1864.8	1864.8	1862.6	1864.8	1863.3	1861.0	1864.1	1861.8	1859.5	1861.0
7.5°	1890.8	1893.9	1891.6	1889.3	1890.8	1889.3	1887.8	1888.5	1887.8	1885.5	1886.2
10°	1926.8	1929.0	1927.5	1926.8	1928.3	1927.5	1926.0	1925.2	1926.0	1923.7	1923.7
12.5°	1970.3	1969.6	1968.8	1969.6	1971.8	1971.8	1971.1	1971.8	1973.4	1974.1	1972.6
15°	2013.1	2014.6	2014.6	2014.6	2019.2	2023.1	2025.3	2026.9	2029.9	2030.7	2027.6
17.5°	2066.6	2066.6	2065.9	2066.6	2071.2	2077.3	2079.6	2082.7	2085.7	2088.0	2084.2
20°	2126.2	2127.8	2127.8	2129.3	2135.4	2142.3	2142.3	2143.8	2142.3	2143.8	2141.5
22.5°	2198.8	2203.4	2203.4	2204.2	2210.3	2218.7	2216.4	2218.7	2214.9	2217.9	2214.9
25°	2293.6	2300.5	2299.0	2299.0	2303.5	2308.9	2309.7	2314.2	2313.5	2317.3	2315.0
27.5°	2400.6	2411.3	2414.4	2413.6	2416.7	2422.0	2423.5	2428.9	2425.8	2428.9	2427.4
30°	2529.0	2533.6	2539.7	2542.0	2545.8	2551.2	2551.2	2551.9	2548.1	2552.7	2555.0
32.5°	2662.0	2670.4	2676.5	2690.3	2697.1	2701.0	2700.2	2701.7	2697.9	2704.0	2708.6
35°	2837.8	2843.9	2853.8	2864.5	2873.7	2872.9	2870.6	2871.4	2871.4	2876.8	2881.3
37.5°	3049.5	3051.0	3064.0	3079.3	3083.9	3079.3	3065.5	3062.5	3055.6	3062.5	3070.1
40°	3273.4	3278.8	3304.8	3314.7	3317.0	3308.6	3288.7	3277.2	3262.0	3270.4	3281.1
42.5°	3508.1	3518.8	3542.4	3560.0	3567.7	3562.3	3534.8	3517.2	3497.4	3501.9	3512.6
45°	3767.9	3780.9	3814.5	3831.3	3845.9	3837.5	3810.7	3784.0	3752.6	3754.9	3771.7
47.5°	4058.3	4071.3	4114.9	4143.2	4150.8	4149.3	4119.5	4082.8	4040.0	4038.5	4053.0
50°	4383.9	4396.9	4451.2	4494.7	4516.9	4514.6	4479.5	4427.5	4375.5	4376.3	4394.6
52.5°	4701.9	4717.9	4774.5	4849.4	4892.9	4924.3	4902.9	4854.0	4790.5	4792.0	4808.9
55°	4999.9	5026.7	5091.6	5193.3	5274.3	5362.2	5387.4	5385.9	5347.7	5358.4	5375.2
57.5°	5144.4	5184.1	5284.2	5444.7	5609.8	5788.7	5940.0	6053.1	6101.3	6173.9	6157.1
60°	4870.8	4934.2	5081.7	5317.9	5644.2	6017.2	6416.9	6807.5	7140.7	7392.1	7247.7
62.5°	3988.0	4070.6	4249.4	4552.1	5045.8	5642.7	6407.7	7331.0	8336.8	8943.6	8510.3
65°	2495.4	2581.0	2762.9	3086.9	3664.7	4406.8	5444.7	6974.8	8854.2	9769.0	8887.1
67.5°	972.9	1019.6	1118.1	1325.3	1759.4	2419.7	3461.4	5197.9	7445.6	8247.4	7307.3
70°	487.6	492.2	510.5	548.8	642.0	833.8	1268.7	2409.8	4270.0	5157.4	4116.4
72.5°	352.3	353.1	362.3	379.1	408.9	451.7	534.2	737.5	1388.7	2122.4	1301.6
75°	269.8	272.8	278.2	287.4	303.4	324.8	354.6	424.9	526.6	610.7	513.6
77.5°	207.9	214.0	217.8	226.2	236.2	250.7	259.1	285.8	332.5	350.0	344.7
80°	158.2	163.6	172.0	178.8	185.7	192.6	189.5	201.8	226.2	240.7	233.1
82.5°	100.9	107.0	131.5	137.6	140.6	145.2	139.9	140.6	151.3	160.5	151.3
85°	65.0	68.8	83.3	90.9	91.7	94.8	92.5	87.1	87.1	79.5	89.4
87.5°	29.8	30.6	37.4	44.3	45.9	41.3	40.5	39.0	31.3	29.8	32.1
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°	1846.5	1846.5	1846.5	1846.5	1846.5	1846.5	1846.5	1846.5
2.5°	1845.7	1847.3	1848.0	1850.3	1851.1	1851.1	1851.9	1853.4
5°	1860.3	1862.6	1863.3	1866.4	1867.1	1866.4	1867.9	1868.7
7.5°	1886.2	1890.1	1891.6	1894.7	1892.4	1895.4	1896.2	1896.2
10°	1924.5	1928.3	1929.0	1932.1	1930.6	1932.1	1932.1	1930.6
12.5°	1974.9	1975.7	1973.4	1975.7	1972.6	1974.1	1971.8	1970.3
15°	2030.7	2028.4	2023.1	2023.1	2018.5	2019.2	2018.5	2017.7
17.5°	2085.0	2080.4	2076.6	2075.0	2071.2	2070.4	2068.1	2068.1
20°	2144.6	2142.3	2140.0	2136.9	2133.1	2129.3	2128.5	2130.1
22.5°	2216.4	2215.7	2215.7	2214.1	2208.8	2205.0	2202.7	2202.7
25°	2312.7	2305.8	2305.8	2305.1	2302.8	2300.5	2295.9	2298.2
27.5°	2421.2	2417.4	2420.5	2419.7	2417.4	2417.4	2414.4	2414.4
30°	2555.0	2553.5	2558.0	2554.2	2546.6	2545.8	2542.8	2538.9
32.5°	2709.4	2707.8	2714.7	2710.1	2697.9	2691.0	2684.9	2681.9
35°	2881.3	2882.1	2890.5	2887.5	2873.7	2869.1	2858.4	2856.9
37.5°	3069.4	3081.6	3096.1	3099.2	3087.7	3084.6	3073.2	3067.1
40°	3290.2	3306.3	3328.4	3333.8	3321.6	3319.3	3303.2	3294.8
42.5°	3525.6	3553.1	3580.7	3585.2	3573.0	3560.8	3545.5	3539.4
45°	3788.5	3821.4	3857.3	3866.5	3848.2	3833.6	3813.8	3813.8
47.5°	4083.6	4124.8	4165.3	4190.6	4173.7	4158.5	4134.8	4119.5
50°	4432.1	4488.6	4541.4	4567.3	4540.6	4511.6	4470.3	4456.5
52.5°	4869.2	4930.4	4976.2	4962.5	4921.2	4880.7	4835.6	4817.3
55°	5427.2	5447.8	5447.8	5395.8	5313.3	5245.3	5174.2	5150.5
57.5°	6125.0	6045.5	5923.2	5768.0	5573.1	5403.5	5288.8	5234.6
60°	6945.0	6562.9	6131.1	5706.9	5358.4	5071.0	4900.6	4822.6
62.5°	7491.5	6491.8	5626.6	4945.7	4444.3	4098.1	3862.7	3771.0
65°	7001.6	5414.2	4255.5	3440.8	2894.3	2542.0	2308.9	2223.3
67.5°	5128.3	3392.6	2266.1	1624.1	1190.0	949.2	853.7	814.0
70°	2302.0	1194.6	732.2	571.7	493.0	452.5	434.9	428.8
72.5°	694.0	502.1	423.4	382.1	350.8	330.9	316.4	314.9
75°	418.8	348.5	309.5	285.1	265.2	249.2	241.5	239.2
77.5°	292.7	256.0	237.7	220.1	204.8	192.6	185.7	180.4
80°	205.6	188.0	179.6	169.7	159.7	148.3	138.3	133.7
82.5°	137.6	133.7	133.7	127.6	119.2	108.5	88.7	84.1
85°	88.7	87.9	89.4	87.1	81.0	69.5	57.3	54.3
87.5°	41.3	42.0	46.6	45.9	44.3	36.7	29.0	27.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)