

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: P191641

Luminaire Tested: **GLEON-AF-03-LED-E1-5NQ-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191641
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-03-LED-E1-5NQ-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15145 lumens
Efficiency: N/A
Efficacy: 122.1 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): 124
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

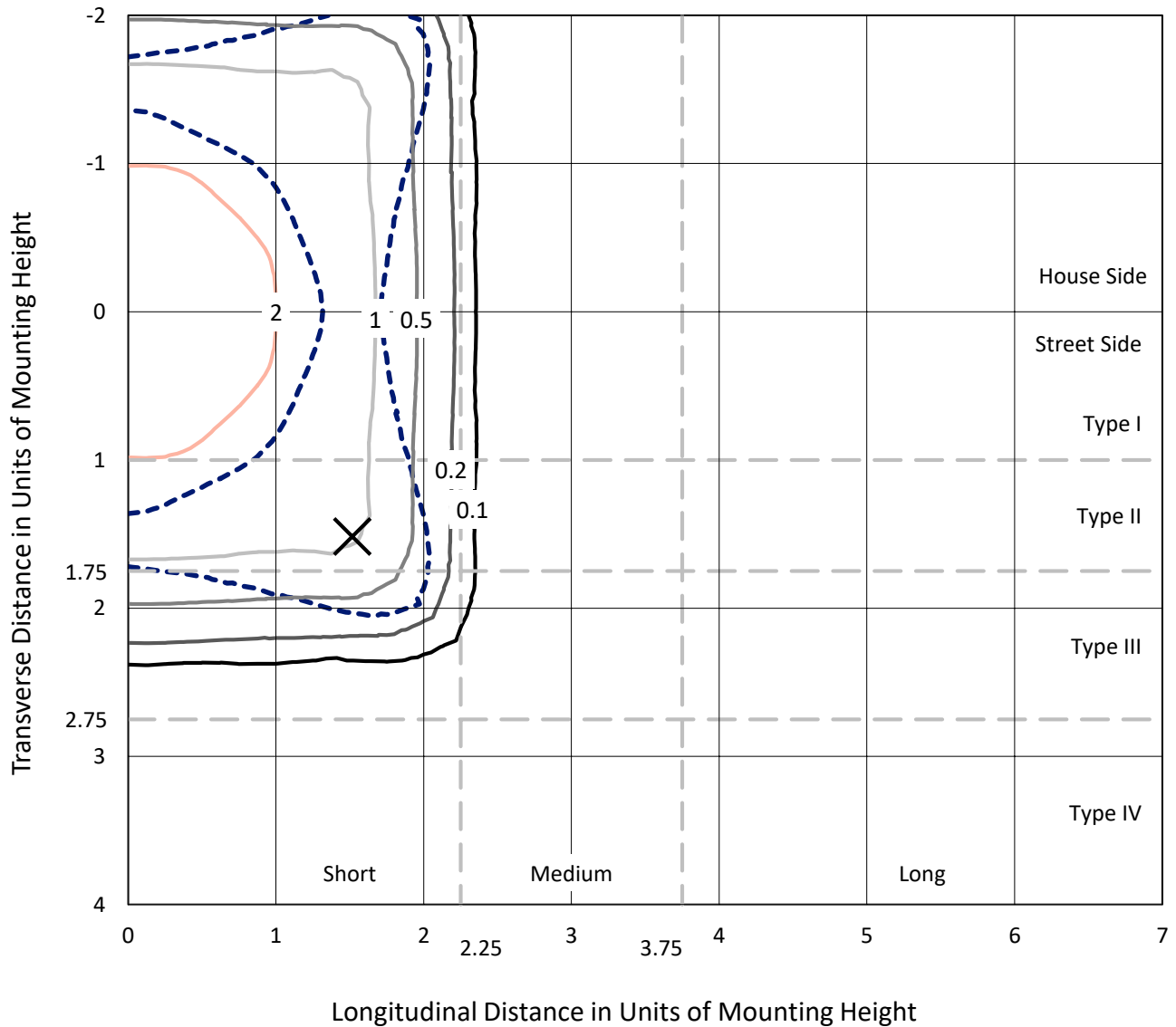


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

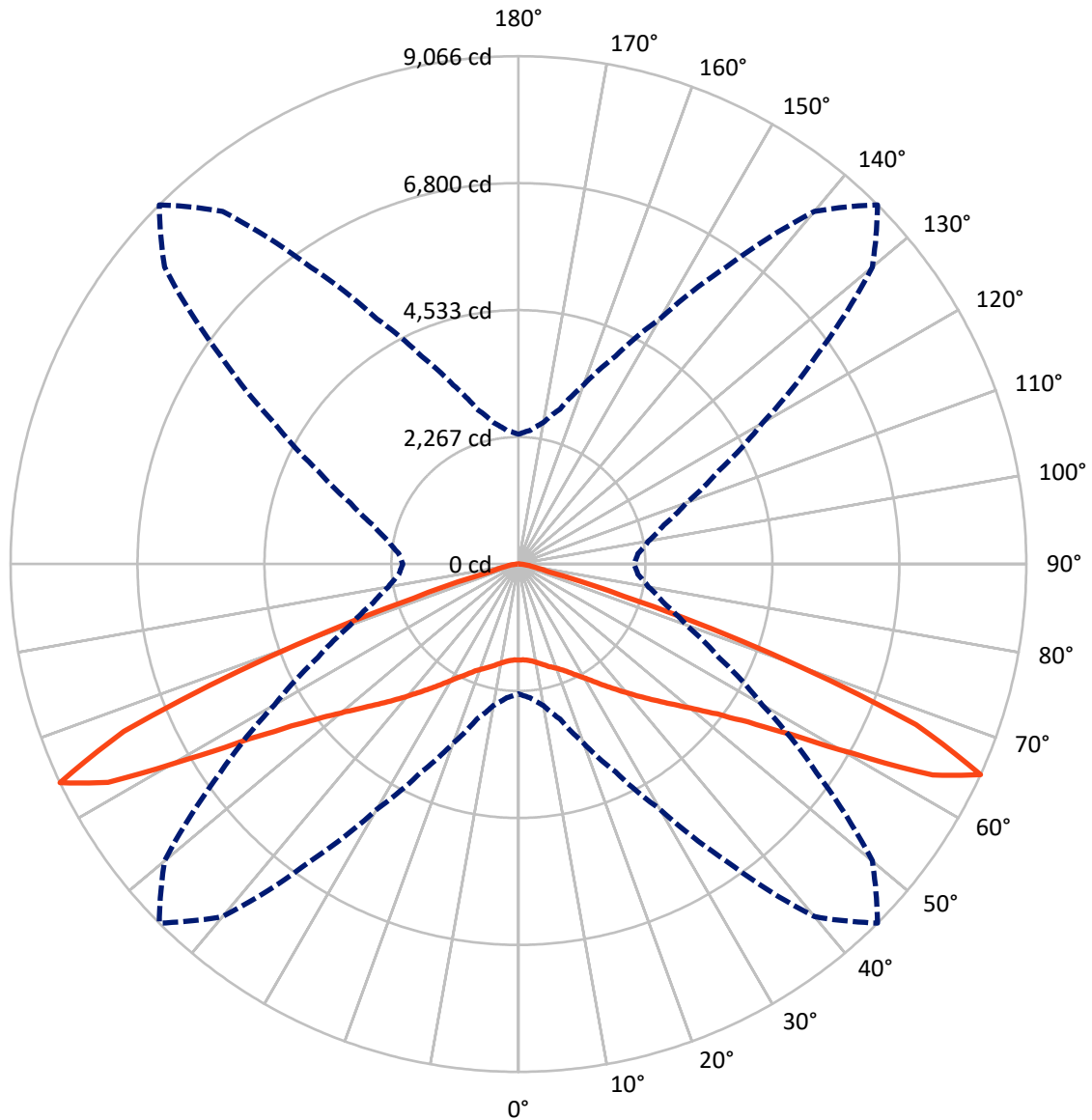


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Full Cutoff

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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	7572.5	0.0	7572.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7572.5	0.0	7572.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15145.0	0.0	15145.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.0	1.1
10°-20°	535.7	3.5
20°-30°	1001.6	6.6
30°-40°	1694.0	11.2
40°-50°	2769.9	18.3
50°-60°	4404.6	29.1
60°-70°	3981.5	26.3
70°-80°	503.9	3.3
80°-90°	86.7	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°	15145.0	100.0
0°-180°	15145.0	100.0

Coefficient of Utilization



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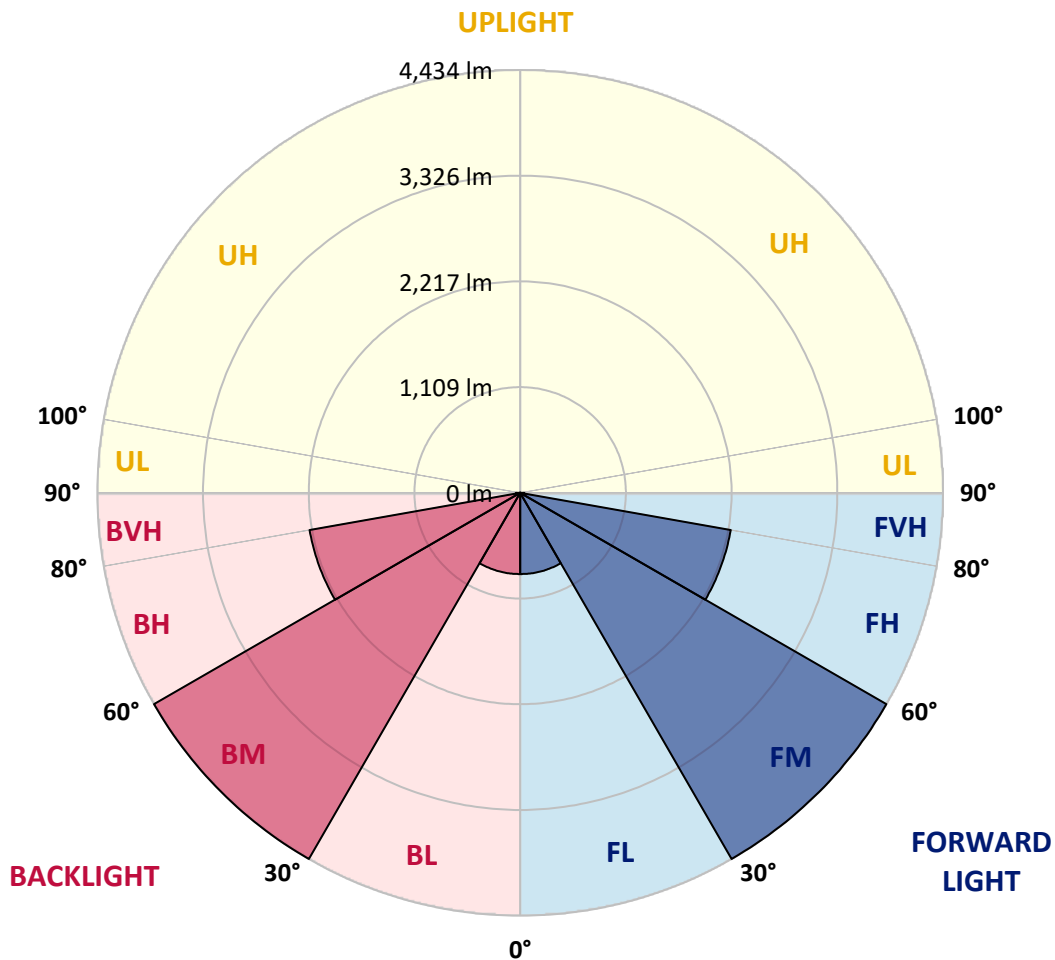
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	852.2	5.6			
FM	(30°-60°)	4434.3	29.3			
FH	(60°-80°)	2242.7	14.8			G2/5000
FVH	(80°-90°)	43.3	0.3			G1/100
BL	(0°-30°)	852.2	5.6	B2/1000		
BM	(30°-60°)	4434.3	29.3	B3/5000		
BH	(60°-80°)	2242.7	14.8	B3/2500		G2/5000
BVH	(80°-90°)	43.3	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°	1713.7	1713.7	1713.7	1713.7	1713.7	1713.7	1713.7	1713.7	1713.7	1713.7	1713.7
2.5°	1715.1	1716.5	1717.9	1716.5	1717.9	1715.8	1714.4	1716.5	1714.4	1712.2	1713.7
5°	1730.0	1730.7	1730.7	1728.6	1730.7	1729.3	1727.1	1730.0	1727.9	1725.7	1727.1
7.5°	1754.8	1757.6	1755.5	1753.4	1754.8	1753.4	1752.0	1752.7	1752.0	1749.8	1750.5
10°	1788.1	1790.3	1788.9	1788.1	1789.6	1788.9	1787.4	1786.7	1787.4	1785.3	1785.3
12.5°	1828.6	1827.9	1827.2	1827.9	1830.0	1830.0	1829.3	1830.0	1831.4	1832.1	1830.7
15°	1868.3	1869.7	1869.7	1869.7	1874.0	1877.5	1879.6	1881.1	1883.9	1884.6	1881.8
17.5°	1917.9	1917.9	1917.2	1917.9	1922.2	1927.9	1930.0	1932.8	1935.7	1937.8	1934.3
20°	1973.3	1974.7	1974.7	1976.1	1981.8	1988.2	1988.2	1989.6	1988.2	1989.6	1987.5
22.5°	2040.7	2044.9	2044.9	2045.6	2051.3	2059.1	2057.0	2059.1	2055.5	2058.4	2055.5
25°	2128.6	2135.0	2133.6	2133.6	2137.8	2142.8	2143.5	2147.8	2147.0	2150.6	2148.5
27.5°	2227.9	2237.8	2240.7	2240.0	2242.8	2247.8	2249.2	2254.2	2251.3	2254.2	2252.7
30°	2347.1	2351.3	2357.0	2359.1	2362.7	2367.6	2367.6	2368.3	2364.8	2369.1	2371.2
32.5°	2470.5	2478.3	2484.0	2496.7	2503.1	2506.7	2506.0	2507.4	2503.8	2509.5	2513.8
35°	2633.6	2639.3	2648.5	2658.5	2667.0	2666.3	2664.1	2664.8	2664.8	2669.8	2674.1
37.5°	2830.1	2831.5	2843.6	2857.8	2862.0	2857.8	2845.0	2842.2	2835.8	2842.2	2849.3
40°	3037.9	3042.9	3067.0	3076.2	3078.4	3070.6	3052.1	3041.5	3027.3	3035.1	3045.0
42.5°	3255.7	3265.6	3287.6	3303.9	3311.0	3306.0	3280.5	3264.2	3245.7	3250.0	3259.9
45°	3496.8	3508.9	3540.1	3555.7	3569.2	3561.4	3536.6	3511.7	3482.7	3484.8	3500.4
47.5°	3766.4	3778.4	3818.9	3845.1	3852.2	3850.8	3823.1	3789.1	3749.4	3747.9	3761.4
50°	4068.5	4080.6	4131.0	4171.4	4192.0	4189.8	4157.2	4109.0	4060.7	4061.4	4078.5
52.5°	4363.6	4378.5	4431.0	4500.5	4540.9	4570.0	4550.1	4504.8	4445.9	4447.3	4462.9
55°	4640.2	4665.1	4725.3	4819.7	4894.9	4976.4	4999.8	4998.4	4963.0	4972.9	4988.5
57.5°	4774.3	4811.2	4904.1	5053.0	5206.3	5372.2	5512.7	5617.6	5662.3	5729.7	5714.1
60°	4520.4	4579.2	4716.1	4935.3	5238.2	5584.3	5955.3	6317.7	6627.0	6860.3	6726.3
62.5°	3701.1	3777.7	3943.7	4224.6	4682.8	5236.7	5946.8	6803.6	7737.0	8300.2	7898.0
65°	2315.9	2395.3	2564.1	2864.9	3401.1	4089.8	5053.0	6473.1	8217.2	9066.3	8247.7
67.5°	902.9	946.2	1037.7	1229.9	1632.8	2245.6	3212.4	4823.9	6910.0	7654.0	6781.6
70°	452.5	456.8	473.8	509.3	595.8	773.8	1177.4	2236.4	3962.9	4786.3	3820.3
72.5°	327.0	327.7	336.2	351.8	379.5	419.2	495.8	684.5	1288.8	1969.7	1207.9
75°	250.4	253.2	258.2	266.7	281.6	301.5	329.1	394.4	488.7	566.7	476.6
77.5°	192.9	198.6	202.2	210.0	219.2	232.6	240.5	265.3	308.5	324.9	319.9
80°	146.8	151.8	159.6	166.0	172.4	178.7	175.9	187.3	210.0	223.4	216.3
82.5°	93.6	99.3	122.0	127.7	130.5	134.8	129.8	130.5	140.4	149.0	140.4
85°	60.3	63.8	77.3	84.4	85.1	88.0	85.8	80.9	80.9	73.8	83.0
87.5°	27.7	28.4	34.8	41.1	42.6	38.3	37.6	36.2	29.1	27.7	29.8
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°	1713.7	1713.7	1713.7	1713.7	1713.7	1713.7	1713.7	1713.7
2.5°	1713.0	1714.4	1715.1	1717.2	1717.9	1717.9	1718.6	1720.0
5°	1726.4	1728.6	1729.3	1732.1	1732.8	1732.1	1733.5	1734.2
7.5°	1750.5	1754.1	1755.5	1758.4	1756.2	1759.1	1759.8	1759.8
10°	1786.0	1789.6	1790.3	1793.1	1791.7	1793.1	1793.1	1791.7
12.5°	1832.8	1833.5	1831.4	1833.5	1830.7	1832.1	1830.0	1828.6
15°	1884.6	1882.5	1877.5	1877.5	1873.3	1874.0	1873.3	1872.5
17.5°	1935.0	1930.7	1927.2	1925.7	1922.2	1921.5	1919.4	1919.4
20°	1990.3	1988.2	1986.0	1983.2	1979.7	1976.1	1975.4	1976.8
22.5°	2057.0	2056.3	2056.3	2054.8	2049.9	2046.3	2044.2	2044.2
25°	2146.3	2140.0	2140.0	2139.2	2137.1	2135.0	2130.7	2132.9
27.5°	2247.1	2243.5	2246.3	2245.6	2243.5	2243.5	2240.7	2240.7
30°	2371.2	2369.8	2374.0	2370.5	2363.4	2362.7	2359.8	2356.3
32.5°	2514.5	2513.0	2519.4	2515.2	2503.8	2497.4	2491.8	2488.9
35°	2674.1	2674.8	2682.6	2679.7	2667.0	2662.7	2652.8	2651.4
37.5°	2848.5	2859.9	2873.4	2876.2	2865.6	2862.7	2852.1	2846.4
40°	3053.5	3068.4	3089.0	3094.0	3082.6	3080.5	3065.6	3057.8
42.5°	3272.0	3297.5	3323.1	3327.3	3316.0	3304.6	3290.4	3284.8
45°	3516.0	3546.5	3579.8	3588.3	3571.3	3557.8	3539.4	3539.4
47.5°	3789.8	3828.1	3865.7	3889.1	3873.5	3859.3	3837.3	3823.1
50°	4113.2	4165.7	4214.7	4238.8	4213.9	4187.0	4148.7	4135.9
52.5°	4518.9	4575.7	4618.2	4605.5	4567.2	4529.6	4487.7	4470.7
55°	5036.7	5055.9	5055.9	5007.6	4931.0	4867.9	4801.9	4780.0
57.5°	5684.3	5610.6	5497.1	5353.1	5172.2	5014.7	4908.3	4858.0
60°	6445.4	6090.7	5690.0	5296.3	4972.9	4706.2	4548.0	4475.7
62.5°	6952.5	6024.8	5221.9	4589.9	4124.6	3803.3	3584.8	3499.7
65°	6497.9	5024.7	3949.4	3193.3	2686.1	2359.1	2142.8	2063.3
67.5°	4759.4	3148.6	2103.1	1507.3	1104.4	880.9	792.3	755.4
70°	2136.4	1108.6	679.5	530.6	457.5	419.9	403.6	397.9
72.5°	644.0	466.0	393.0	354.6	325.6	307.1	293.6	292.2
75°	388.7	323.4	287.3	264.6	246.1	231.2	224.1	222.0
77.5°	271.7	237.6	220.6	204.3	190.1	178.7	172.4	167.4
80°	190.8	174.5	166.7	157.5	148.2	137.6	128.4	124.1
82.5°	127.7	124.1	124.1	118.5	110.7	100.7	82.3	78.0
85°	82.3	81.6	83.0	80.9	75.2	64.5	53.2	50.4
87.5°	38.3	39.0	43.3	42.6	41.1	34.0	27.0	25.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)