

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: P193415

Luminaire Tested: **GLEON-AF-07-LED-E1-5WQ-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193415
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-5WQ-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23843 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 226
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

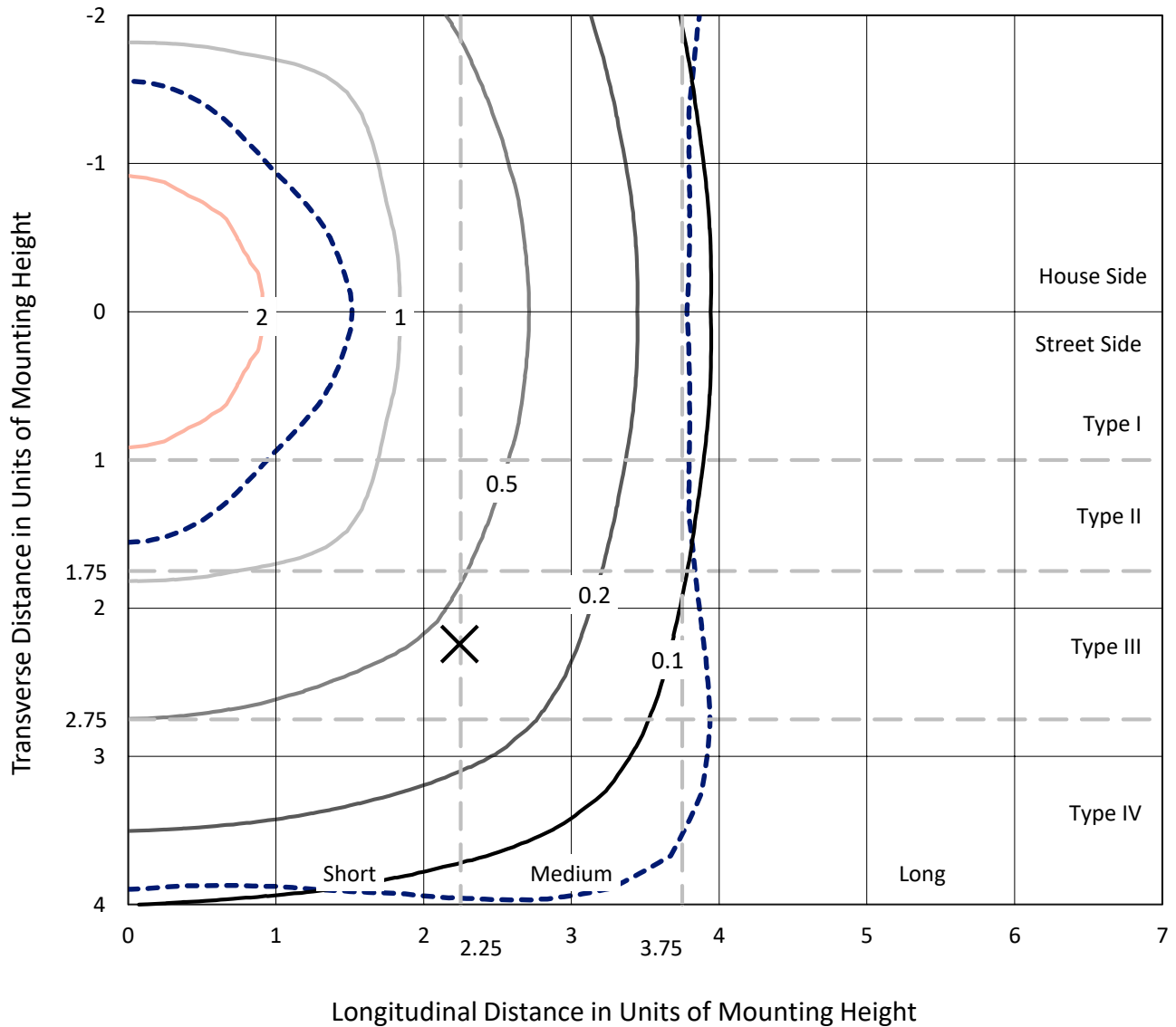


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

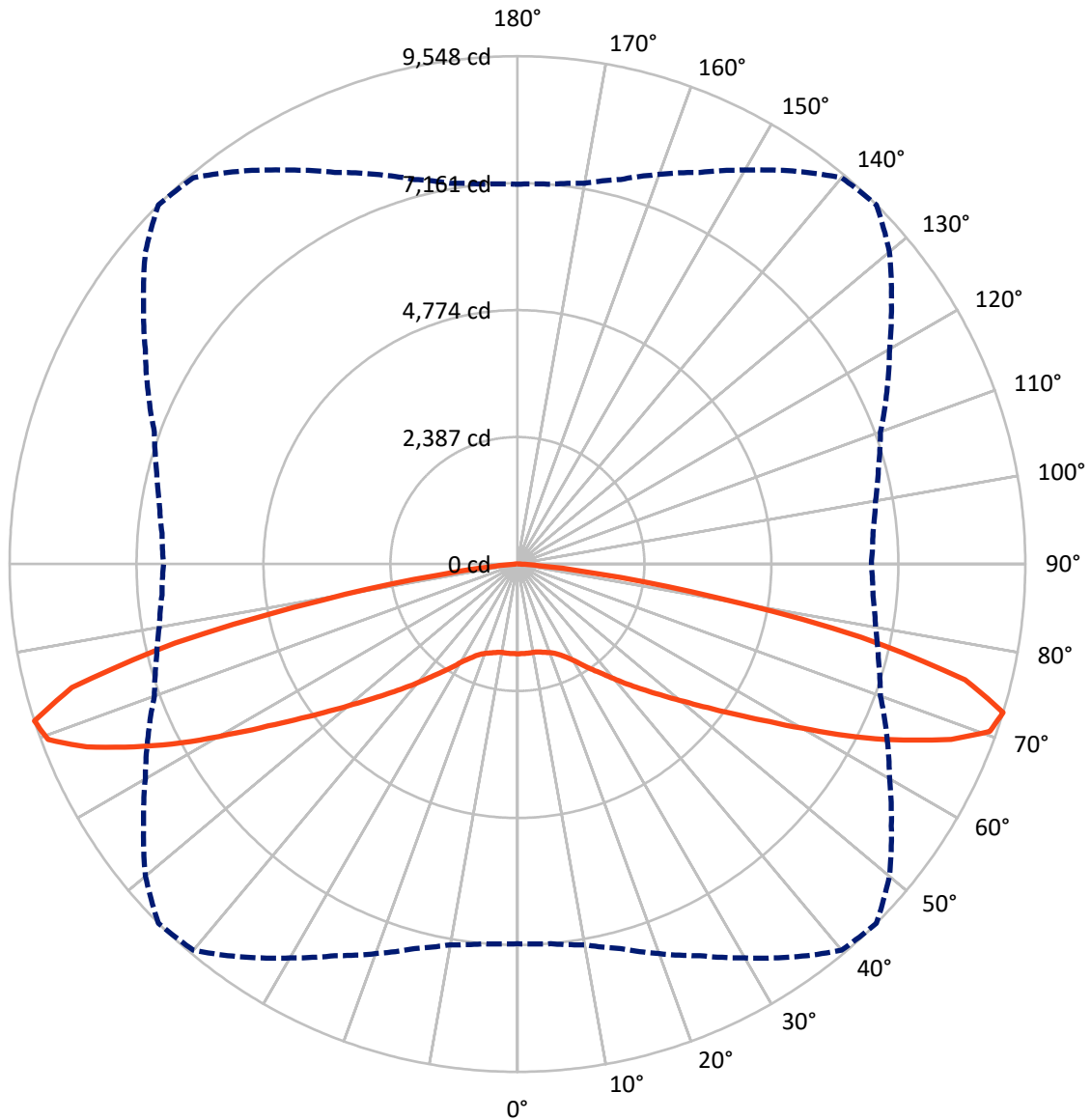


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11921.5	0.0	11921.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11921.5	0.0	11921.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	23843.0	0.0	23843.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.2	0.7
10°-20°	489.7	2.1
20°-30°	894.8	3.8
30°-40°	1542.8	6.5
40°-50°	2637.5	11.1
50°-60°	4275.0	17.9
60°-70°	7092.0	29.7
70°-80°	6246.4	26.2
80°-90°	503.6	2.1
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°	23843.0	100.0
0°-180°	23843.0	100.0



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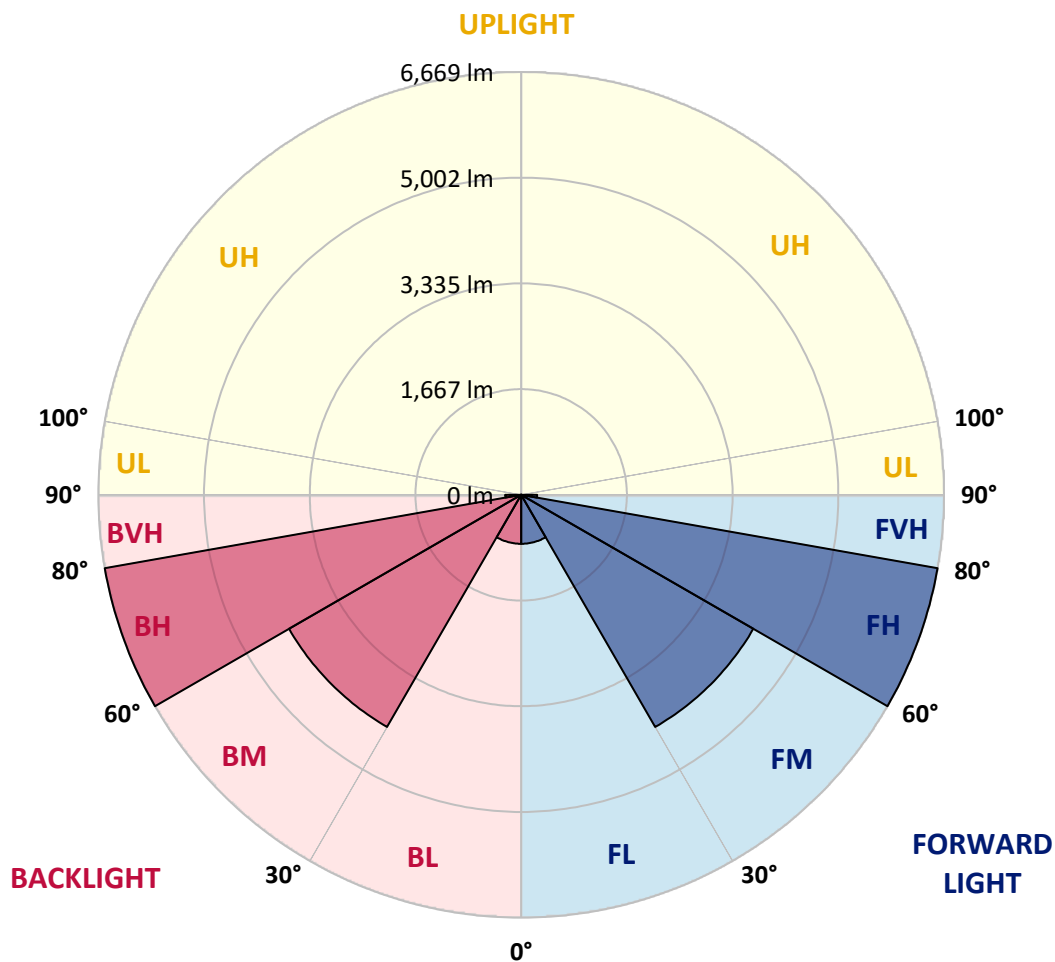
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	772.9	3.2			
FM	(30°-60°)	4227.6	17.7			
FH	(60°-80°)	6669.2	28.0			G3/7500
FVH	(80°-90°)	251.8	1.1			G3/500
BL	(0°-30°)	772.9	3.2	B2/1000		
BM	(30°-60°)	4227.6	17.7	B3/5000		
BH	(60°-80°)	6669.2	28.0	B5		G3/7500
BVH	(80°-90°)	251.8	1.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5
2.5°	1688.5	1689.5	1690.6	1689.5	1689.5	1688.5	1687.4	1688.5	1687.4	1685.2	1686.3
5°	1693.9	1696.1	1696.1	1693.9	1695.0	1693.9	1691.7	1692.8	1690.6	1687.4	1687.4
7.5°	1700.5	1701.6	1701.6	1699.4	1700.5	1698.3	1696.1	1695.0	1692.8	1688.5	1685.2
10°	1710.3	1711.4	1710.3	1708.1	1708.1	1704.9	1699.4	1697.2	1692.8	1686.3	1683.0
12.5°	1721.3	1722.4	1721.3	1719.1	1718.0	1712.5	1708.1	1704.9	1701.6	1696.1	1690.6
15°	1736.6	1738.8	1736.6	1732.2	1728.9	1724.5	1722.4	1723.4	1724.5	1720.2	1714.7
17.5°	1765.0	1766.1	1762.8	1753.0	1748.6	1744.2	1744.2	1746.4	1749.7	1747.5	1742.0
20°	1817.5	1814.2	1806.6	1794.5	1789.1	1781.4	1780.3	1781.4	1781.4	1780.3	1775.9
22.5°	1883.1	1880.9	1871.1	1855.8	1848.1	1843.7	1837.2	1831.7	1830.6	1827.3	1823.0
25°	1961.8	1960.8	1948.7	1935.6	1930.1	1924.7	1919.2	1911.5	1905.0	1897.3	1893.0
27.5°	2062.5	2058.1	2040.6	2034.0	2026.4	2023.1	2015.4	2006.7	2001.2	1991.4	1985.9
30°	2172.9	2172.9	2158.7	2156.5	2156.5	2148.8	2140.1	2124.8	2114.9	2105.1	2101.8
32.5°	2283.4	2284.4	2270.2	2274.6	2277.9	2283.4	2285.5	2280.1	2273.5	2272.4	2265.9
35°	2443.0	2438.6	2424.4	2427.7	2426.6	2425.5	2425.5	2437.5	2439.7	2441.9	2428.8
37.5°	2640.9	2640.9	2626.7	2626.7	2620.2	2613.6	2604.9	2612.5	2624.5	2627.8	2619.1
40°	2867.3	2875.0	2857.5	2856.4	2858.6	2837.8	2827.9	2840.0	2847.6	2860.7	2850.9
42.5°	3134.1	3128.7	3111.2	3109.0	3097.0	3090.4	3081.6	3091.5	3103.5	3112.3	3115.5
45°	3390.0	3385.7	3366.0	3366.0	3353.9	3348.5	3352.9	3369.3	3374.7	3386.8	3398.8
47.5°	3642.6	3637.2	3624.1	3629.5	3630.6	3640.5	3654.7	3670.0	3685.3	3701.7	3707.2
50°	3900.7	3901.8	3887.6	3900.7	3917.1	3944.5	3982.7	4007.9	4039.6	4060.4	4066.9
52.5°	4135.8	4140.2	4155.5	4186.1	4218.9	4272.5	4338.1	4399.4	4451.9	4486.9	4484.7
55°	4418.0	4424.5	4461.7	4514.2	4567.8	4648.7	4746.0	4854.3	4941.8	4992.1	4960.4
57.5°	4778.9	4793.1	4834.6	4905.7	4985.5	5090.5	5223.9	5386.9	5522.5	5590.3	5538.9
60°	5274.2	5283.0	5333.3	5412.0	5508.3	5638.4	5816.6	6035.4	6226.7	6316.4	6257.3
62.5°	5927.1	5943.5	5984.0	6063.8	6162.2	6309.8	6527.5	6800.8	7039.2	7163.9	7030.5
65°	6706.8	6759.3	6793.2	6874.1	6966.0	7122.3	7349.8	7642.9	7898.8	7980.8	7826.6
67.5°	7478.8	7524.8	7583.8	7676.8	7769.7	7945.8	8156.9	8441.2	8722.2	8796.6	8557.1
70°	7816.8	7843.0	7934.9	8061.7	8240.0	8447.7	8691.6	9010.9	9358.7	9419.9	9115.9
72.5°	7139.8	7166.1	7268.9	7484.3	7794.9	8125.1	8550.5	9019.7	9479.0	9547.9	9129.0
75°	5400.0	5357.3	5509.3	5794.8	6213.6	6674.0	7268.9	7941.4	8605.2	8691.6	8191.8
77.5°	2790.8	2785.3	2900.1	3254.4	3754.2	4278.0	4933.0	5693.1	6342.6	6605.1	6198.3
80°	786.3	795.0	849.7	1025.8	1317.7	1696.1	2207.9	2919.8	3451.3	3722.5	3495.0
82.5°	308.4	332.4	353.2	386.0	424.3	480.1	640.8	953.6	1279.5	1528.8	1252.1
85°	110.4	118.1	167.3	197.9	201.2	212.2	241.7	282.1	340.1	405.7	333.5
87.5°	41.6	45.9	53.6	88.6	87.5	79.8	97.3	101.7	76.5	70.0	86.4
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°	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5
2.5°	1684.1	1685.2	1685.2	1686.3	1687.4	1687.4	1689.5	1689.5
5°	1685.2	1685.2	1683.0	1684.1	1683.0	1683.0	1684.1	1684.1
7.5°	1683.0	1681.9	1679.7	1678.6	1676.4	1676.4	1676.4	1676.4
10°	1679.7	1678.6	1676.4	1675.3	1674.2	1674.2	1674.2	1674.2
12.5°	1688.5	1685.2	1683.0	1681.9	1681.9	1681.9	1681.9	1681.9
15°	1711.4	1703.8	1698.3	1698.3	1699.4	1701.6	1701.6	1703.8
17.5°	1739.9	1731.1	1725.6	1721.3	1723.4	1726.7	1728.9	1731.1
20°	1773.8	1769.4	1761.7	1757.3	1757.3	1761.7	1763.9	1765.0
22.5°	1820.8	1817.5	1814.2	1808.7	1808.7	1810.9	1815.3	1815.3
25°	1890.8	1888.6	1886.4	1882.0	1880.9	1880.9	1883.1	1885.3
27.5°	1978.2	1979.3	1977.2	1976.1	1972.8	1971.7	1975.0	1973.9
30°	2095.3	2100.7	2106.2	2101.8	2096.4	2093.1	2089.8	2085.4
32.5°	2253.8	2247.3	2242.9	2235.2	2225.4	2216.6	2210.1	2202.4
35°	2403.6	2392.7	2388.3	2394.9	2393.8	2388.3	2380.7	2374.1
37.5°	2587.4	2585.2	2587.4	2599.4	2597.2	2602.7	2587.4	2586.3
40°	2819.2	2821.4	2836.7	2850.9	2858.6	2866.2	2857.5	2848.7
42.5°	3088.2	3087.1	3092.6	3112.3	3125.4	3134.1	3115.5	3113.4
45°	3372.5	3364.9	3369.3	3385.7	3398.8	3408.6	3387.8	3387.8
47.5°	3685.3	3672.2	3658.0	3676.5	3684.2	3690.8	3674.4	3668.9
50°	4034.1	4006.8	3976.2	3983.8	3983.8	3981.6	3960.9	3959.8
52.5°	4434.4	4384.1	4328.3	4307.5	4295.5	4282.4	4246.3	4228.8
55°	4894.8	4819.3	4731.8	4678.2	4649.8	4613.7	4553.6	4537.2
57.5°	5432.8	5314.7	5163.8	5098.2	5034.7	4975.7	4909.0	4890.4
60°	6070.3	5896.5	5696.3	5575.0	5506.1	5449.2	5380.3	5377.0
62.5°	6781.2	6506.7	6280.3	6171.0	6120.6	6070.3	6004.7	6013.5
65°	7504.0	7217.5	7005.3	6916.8	6869.7	6828.2	6762.6	6772.4
67.5°	8217.0	7953.5	7720.5	7629.8	7577.3	7524.8	7465.7	7475.6
70°	8728.8	8401.8	8139.4	7938.1	7812.4	7670.2	7578.4	7555.4
72.5°	8582.2	8078.1	7661.5	7262.3	7028.3	6838.0	6709.0	6653.2
75°	7427.5	6738.5	6202.7	5712.8	5437.2	5213.0	5050.1	4948.4
77.5°	5515.9	4741.7	4108.5	3544.2	3098.1	2798.4	2587.4	2450.7
80°	3019.3	2296.5	1678.6	1179.9	867.2	720.7	636.5	596.0
82.5°	940.5	606.9	447.3	386.0	358.7	343.4	318.2	277.8
85°	299.6	262.5	243.9	232.9	222.0	193.6	133.4	121.4
87.5°	115.9	119.2	118.1	111.5	113.7	82.0	65.6	58.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)