

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: P192623

Luminaire Tested: **GLEON-AF-05-LED-E1-5WQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192623
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-05-LED-E1-5WQ-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24486.1 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 210
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



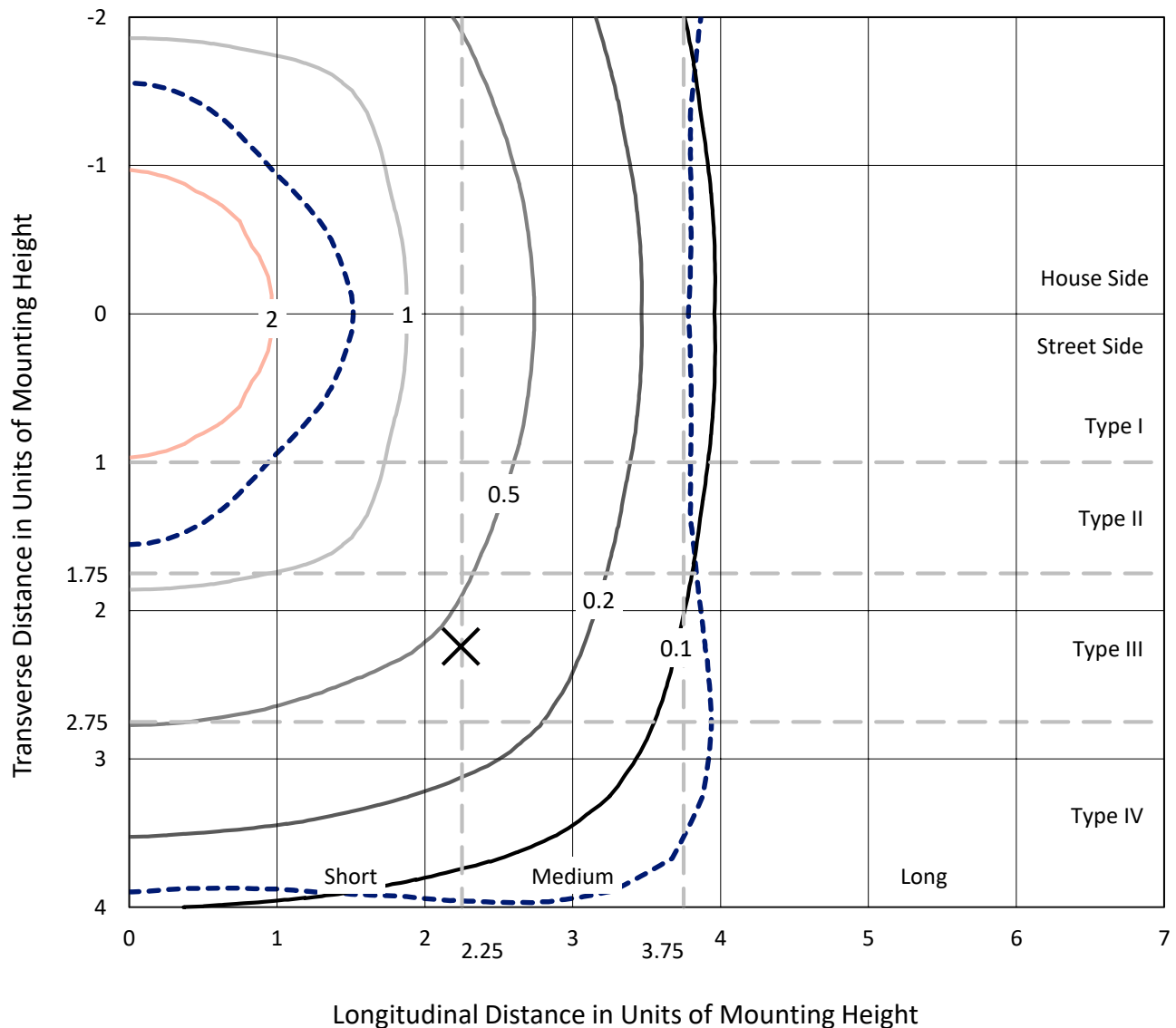
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Iso-Footcandle Lines of Horizontal Illumination

✗ Max cd

--- 1/2 Max cd



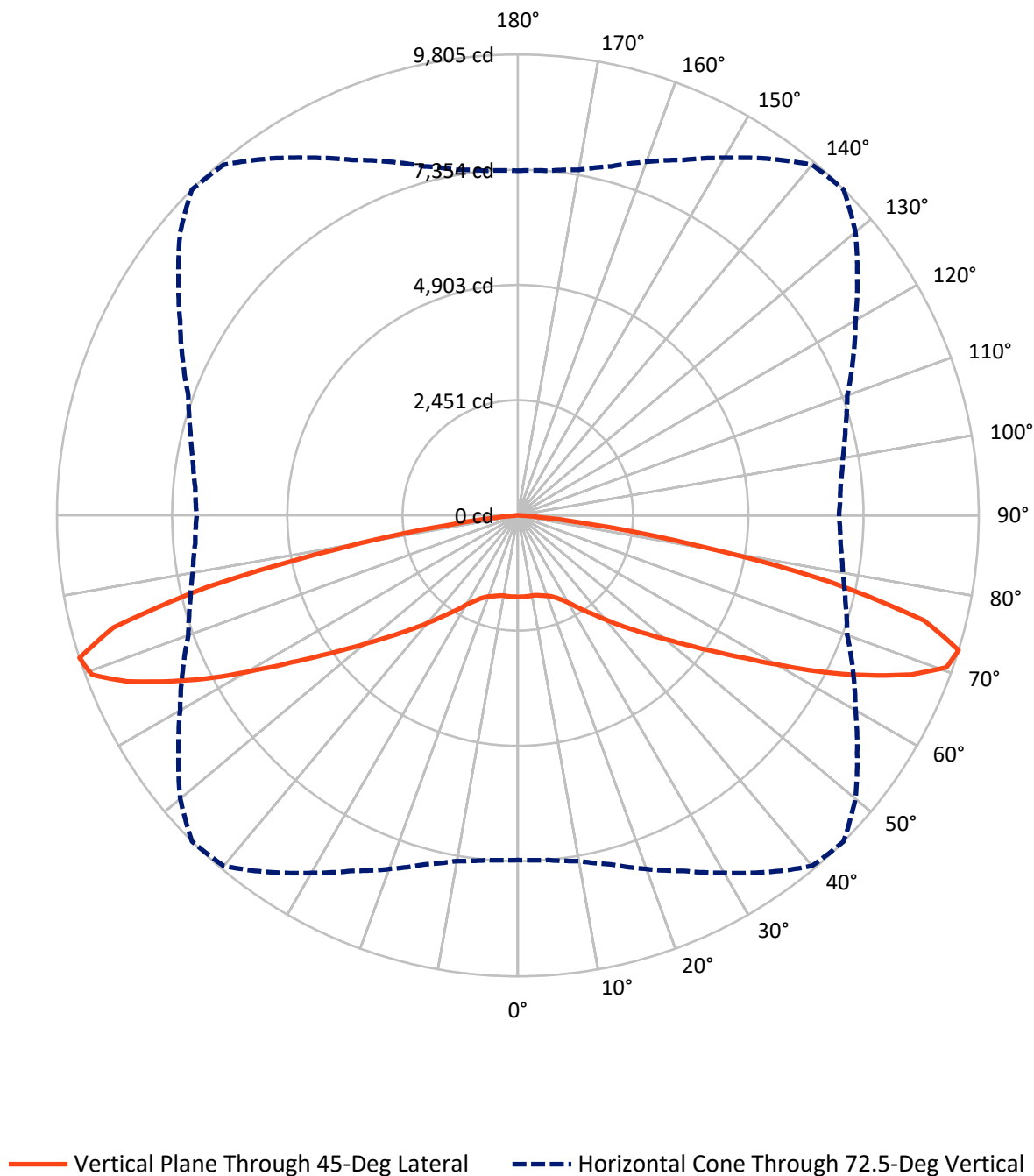
Based on 25 foot mounting height. Maximum calculated value = 2.8 fc

Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12243.0	0.0	12243.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12243.0	0.0	12243.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	24486.1	0.0	24486.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.6	0.7
10°-20°	502.9	2.1
20°-30°	919.0	3.8
30°-40°	1584.4	6.5
40°-50°	2708.6	11.1
50°-60°	4390.3	17.9
60°-70°	7283.3	29.7
70°-80°	6414.9	26.2
80°-90°	517.2	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°	24486.1	100.0
0°-180°	24486.1	100.0

Coefficient of Utilization



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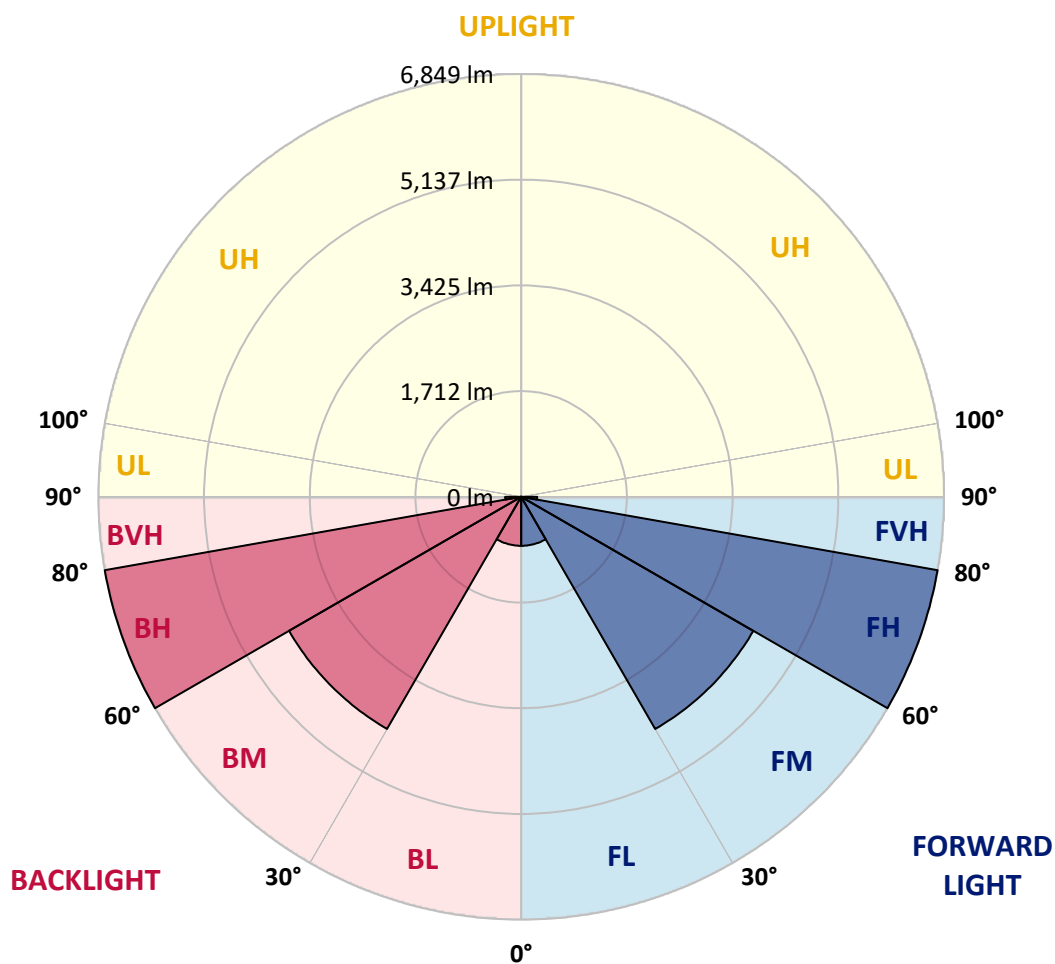
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	793.7	3.2			
FM	(30°-60°)	4341.7	17.7			
FH	(60°-80°)	6849.1	28.0			G3/7500
FVH	(80°-90°)	258.6	1.1			G3/500
BL	(0°-30°)	793.7	3.2	B2/1000		
BM	(30°-60°)	4341.7	17.7	B3/5000		
BH	(60°-80°)	6849.1	28.0	B5		G3/7500
BVH	(80°-90°)	258.6	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°	1734.0	1734.0	1734.0	1734.0	1734.0	1734.0	1734.0	1734.0	1734.0	1734.0	1734.0
2.5°	1734.0	1735.1	1736.2	1735.1	1735.1	1734.0	1732.9	1734.0	1732.9	1730.6	1731.8
5°	1739.6	1741.8	1741.8	1739.6	1740.7	1739.6	1737.3	1738.6	1736.2	1732.9	1732.9
7.5°	1746.4	1747.5	1747.5	1745.2	1746.4	1744.1	1741.8	1740.7	1738.6	1734.0	1730.6
10°	1756.5	1757.6	1756.5	1754.1	1754.1	1750.9	1745.2	1743.0	1738.6	1731.8	1728.4
12.5°	1767.7	1768.8	1767.7	1765.4	1764.3	1758.7	1754.1	1750.9	1747.5	1741.8	1736.2
15°	1783.4	1785.7	1783.4	1779.0	1775.6	1771.1	1768.8	1769.9	1771.1	1766.6	1760.9
17.5°	1812.6	1813.7	1810.3	1800.3	1795.7	1791.3	1791.3	1793.5	1796.9	1794.7	1789.0
20°	1866.4	1863.2	1855.3	1842.9	1837.3	1829.4	1828.4	1829.4	1829.4	1828.4	1823.9
22.5°	1933.9	1931.7	1921.6	1905.8	1898.0	1893.5	1886.7	1881.1	1880.1	1876.6	1872.1
25°	2014.7	2013.6	2001.3	1987.8	1982.2	1976.6	1970.9	1963.1	1956.4	1948.5	1944.0
27.5°	2118.1	2113.6	2095.6	2088.9	2081.1	2077.7	2069.8	2060.8	2055.1	2045.2	2039.5
30°	2231.5	2231.5	2216.9	2214.6	2214.6	2206.8	2197.9	2182.1	2172.0	2161.9	2158.5
32.5°	2344.9	2346.1	2331.5	2336.0	2339.3	2344.9	2347.2	2341.5	2334.9	2333.7	2327.0
35°	2508.9	2504.4	2489.8	2493.2	2492.1	2490.9	2490.9	2503.2	2505.6	2507.8	2494.3
37.5°	2712.2	2712.2	2697.6	2697.6	2690.8	2684.1	2675.1	2683.0	2695.3	2698.7	2689.8
40°	2944.6	2952.5	2934.6	2933.4	2935.7	2914.3	2904.2	2916.5	2924.5	2937.9	2927.8
42.5°	3218.7	3213.1	3195.1	3192.9	3180.5	3173.8	3164.8	3174.8	3187.2	3196.2	3199.5
45°	3481.4	3476.9	3456.8	3456.8	3444.4	3438.8	3443.3	3460.1	3465.7	3478.0	3490.5
47.5°	3740.9	3735.2	3721.8	3727.4	3728.6	3738.7	3753.3	3769.0	3784.7	3801.5	3807.1
50°	4005.9	4007.1	3992.5	4005.9	4022.8	4050.9	4090.1	4116.1	4148.6	4169.9	4176.7
52.5°	4247.4	4252.0	4267.5	4299.1	4332.7	4387.8	4455.1	4518.1	4572.0	4607.9	4605.6
55°	4537.1	4543.9	4582.2	4636.0	4691.0	4774.1	4874.0	4985.3	5075.1	5126.8	5094.2
57.5°	4907.7	4922.3	4965.1	5038.1	5120.0	5227.8	5364.8	5532.2	5671.4	5741.0	5688.2
60°	5416.5	5425.5	5477.1	5558.0	5656.8	5790.5	5973.5	6198.2	6394.6	6486.7	6426.1
62.5°	6087.0	6103.8	6145.4	6227.3	6328.4	6480.0	6703.5	6984.3	7229.1	7357.1	7220.1
65°	6887.7	6941.6	6976.4	7059.6	7153.9	7314.5	7548.0	7849.0	8111.9	8196.1	8037.6
67.5°	7680.6	7727.7	7788.3	7883.8	7979.3	8160.1	8376.9	8668.8	8957.5	9033.9	8787.9
70°	8027.6	8054.6	8148.9	8279.1	8462.2	8675.6	8926.1	9253.9	9611.1	9674.1	9361.8
72.5°	7332.4	7359.3	7464.9	7686.2	8005.1	8344.2	8781.1	9263.0	9734.7	9805.4	9375.2
75°	5545.7	5501.9	5658.0	5951.1	6381.2	6854.1	7464.9	8155.6	8837.3	8926.1	8412.9
77.5°	2866.1	2860.4	2978.3	3342.2	3855.4	4393.5	5066.2	5846.6	6513.7	6783.3	6365.5
80°	807.4	816.5	872.7	1053.5	1353.2	1741.8	2267.4	2998.5	3544.4	3822.9	3589.2
82.5°	316.8	341.4	362.7	396.4	435.7	493.0	658.1	979.3	1314.0	1570.0	1285.9
85°	113.4	121.3	171.9	203.2	206.6	217.9	248.2	289.7	349.3	416.6	342.5
87.5°	42.7	47.2	55.0	91.0	89.8	82.0	100.0	104.5	78.6	71.9	88.7
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°	1734.0	1734.0	1734.0	1734.0	1734.0	1734.0	1734.0	1734.0
2.5°	1729.5	1730.6	1730.6	1731.8	1732.9	1732.9	1735.1	1735.1
5°	1730.6	1730.6	1728.4	1729.5	1728.4	1728.4	1729.5	1729.5
7.5°	1728.4	1727.3	1724.9	1723.9	1721.6	1721.6	1721.6	1721.6
10°	1724.9	1723.9	1721.6	1720.5	1719.4	1719.4	1719.4	1719.4
12.5°	1734.0	1730.6	1728.4	1727.3	1727.3	1727.3	1727.3	1727.3
15°	1757.6	1749.7	1744.1	1744.1	1745.2	1747.5	1747.5	1749.7
17.5°	1786.8	1777.7	1772.1	1767.7	1769.9	1773.3	1775.6	1777.7
20°	1821.6	1817.1	1809.3	1804.8	1804.8	1809.3	1811.5	1812.6
22.5°	1869.9	1866.4	1863.2	1857.5	1857.5	1859.8	1864.3	1864.3
25°	1941.7	1939.5	1937.2	1932.8	1931.7	1931.7	1933.9	1936.2
27.5°	2031.5	2032.8	2030.5	2029.4	2026.0	2024.9	2028.3	2027.1
30°	2151.8	2157.5	2163.0	2158.5	2152.9	2149.5	2146.2	2141.7
32.5°	2314.6	2307.9	2303.4	2295.5	2285.3	2276.4	2269.7	2261.8
35°	2468.5	2457.2	2452.8	2459.5	2458.4	2452.8	2444.9	2438.1
37.5°	2657.1	2654.9	2657.1	2669.5	2667.2	2672.9	2657.1	2656.0
40°	2895.3	2897.4	2913.2	2927.8	2935.7	2943.6	2934.6	2925.5
42.5°	3171.5	3170.3	3175.9	3196.2	3209.7	3218.7	3199.5	3197.4
45°	3463.5	3455.7	3460.1	3476.9	3490.5	3500.5	3479.3	3479.3
47.5°	3784.7	3771.2	3756.7	3775.7	3783.5	3790.3	3773.5	3767.8
50°	4142.9	4114.9	4083.4	4091.3	4091.3	4089.0	4067.7	4066.6
52.5°	4554.0	4502.3	4445.0	4423.7	4411.4	4397.9	4360.9	4342.8
55°	5026.8	4949.3	4859.5	4804.4	4775.1	4738.1	4676.4	4659.6
57.5°	5579.4	5458.0	5303.1	5235.7	5170.5	5109.9	5041.4	5022.3
60°	6234.2	6055.4	5850.0	5725.3	5654.6	5596.2	5525.5	5522.1
62.5°	6964.0	6682.2	6449.7	6337.4	6285.6	6234.2	6166.7	6175.7
65°	7706.4	7412.1	7194.2	7103.3	7055.0	7012.4	6944.9	6955.1
67.5°	8438.6	8168.0	7928.7	7835.5	7781.7	7727.7	7667.0	7677.2
70°	8964.1	8628.4	8358.9	8152.3	8023.1	7877.1	7782.7	7759.1
72.5°	8813.7	8296.0	7868.1	7458.2	7217.8	7022.4	6889.9	6832.6
75°	7627.8	6920.3	6370.0	5866.7	5583.8	5353.6	5186.3	5081.8
77.5°	5664.6	4869.5	4219.3	3639.9	3181.6	2873.8	2657.1	2516.8
80°	3100.8	2358.4	1723.9	1211.8	890.6	740.1	653.6	612.1
82.5°	965.9	623.4	459.3	396.4	368.3	352.7	326.8	285.2
85°	307.7	269.6	250.4	239.2	228.1	198.8	137.0	124.7
87.5°	119.1	122.4	121.3	114.5	116.8	84.2	67.4	59.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)