

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: P192632

Luminaire Tested: **GLEON-AF-04-LED-E1-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192632
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-04-LED-E1-5WQ-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24461 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 225
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

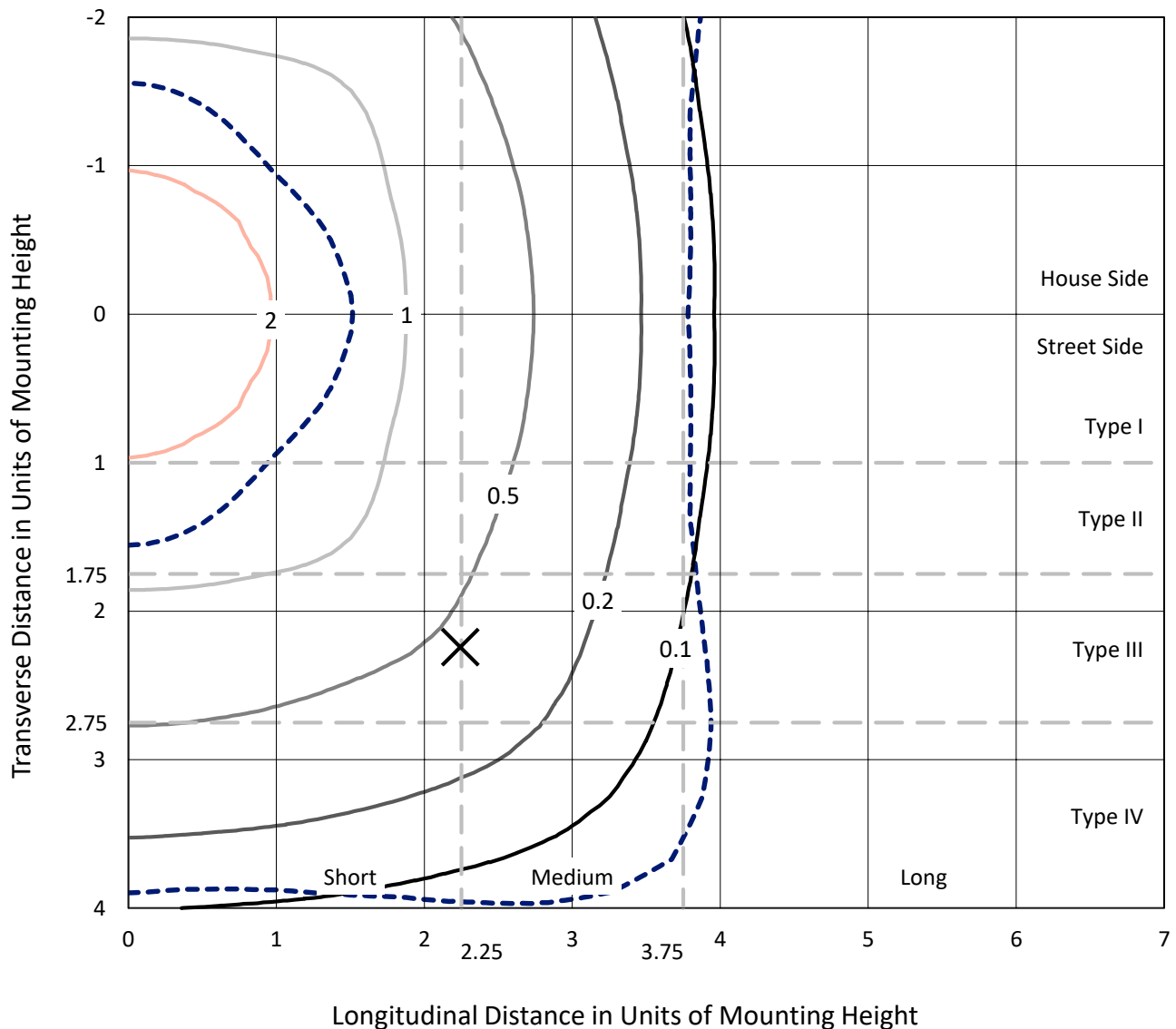


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

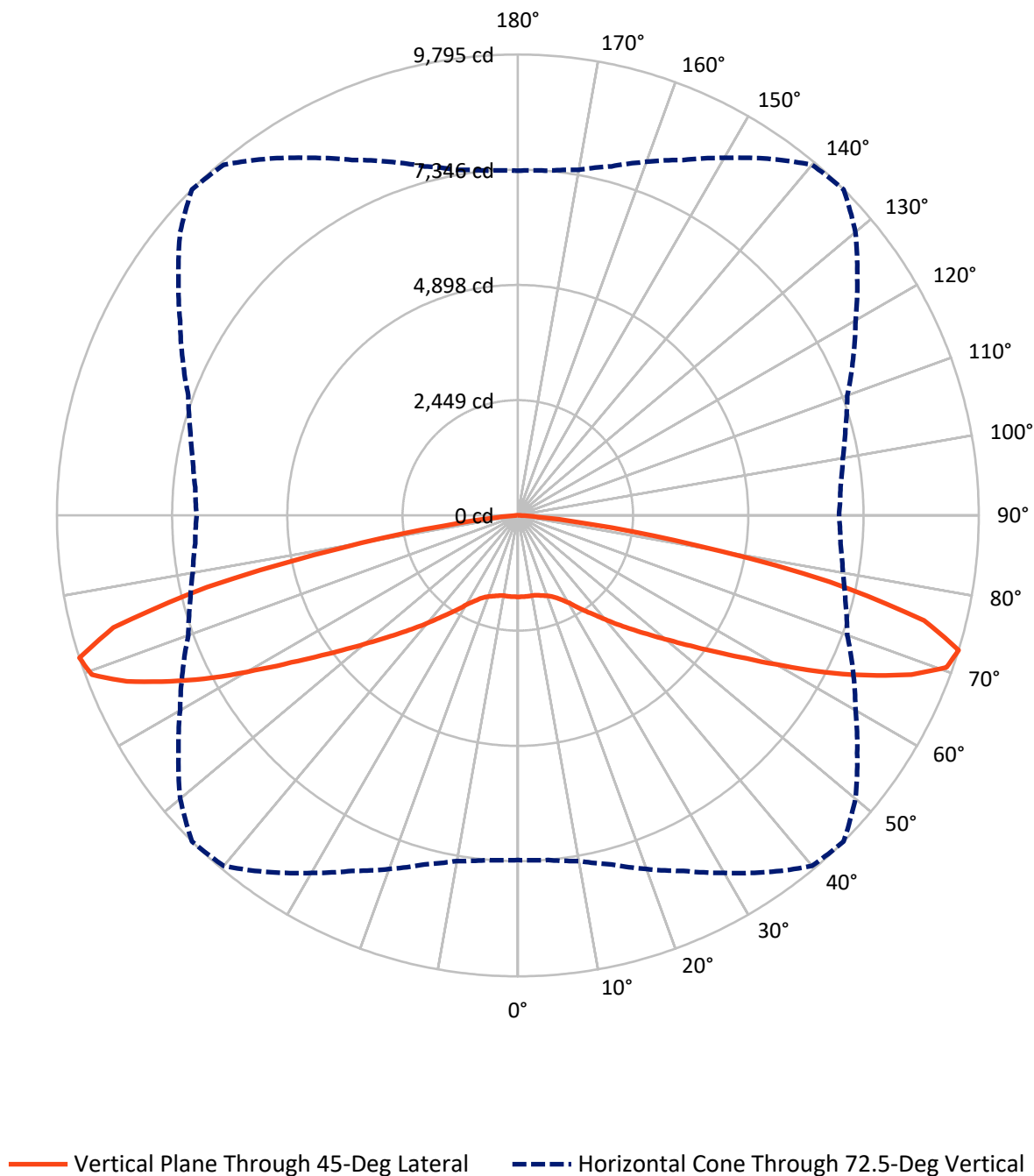


Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12230.5	0.0	12230.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12230.5	0.0	12230.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24461.0	0.0	24461.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.4	0.7
10°-20°	502.4	2.1
20°-30°	918.0	3.8
30°-40°	1582.8	6.5
40°-50°	2705.8	11.1
50°-60°	4385.8	17.9
60°-70°	7275.8	29.7
70°-80°	6408.3	26.2
80°-90°	516.7	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°	24461.0	100.0
0°-180°	24461.0	100.0

Coefficient of Utilization



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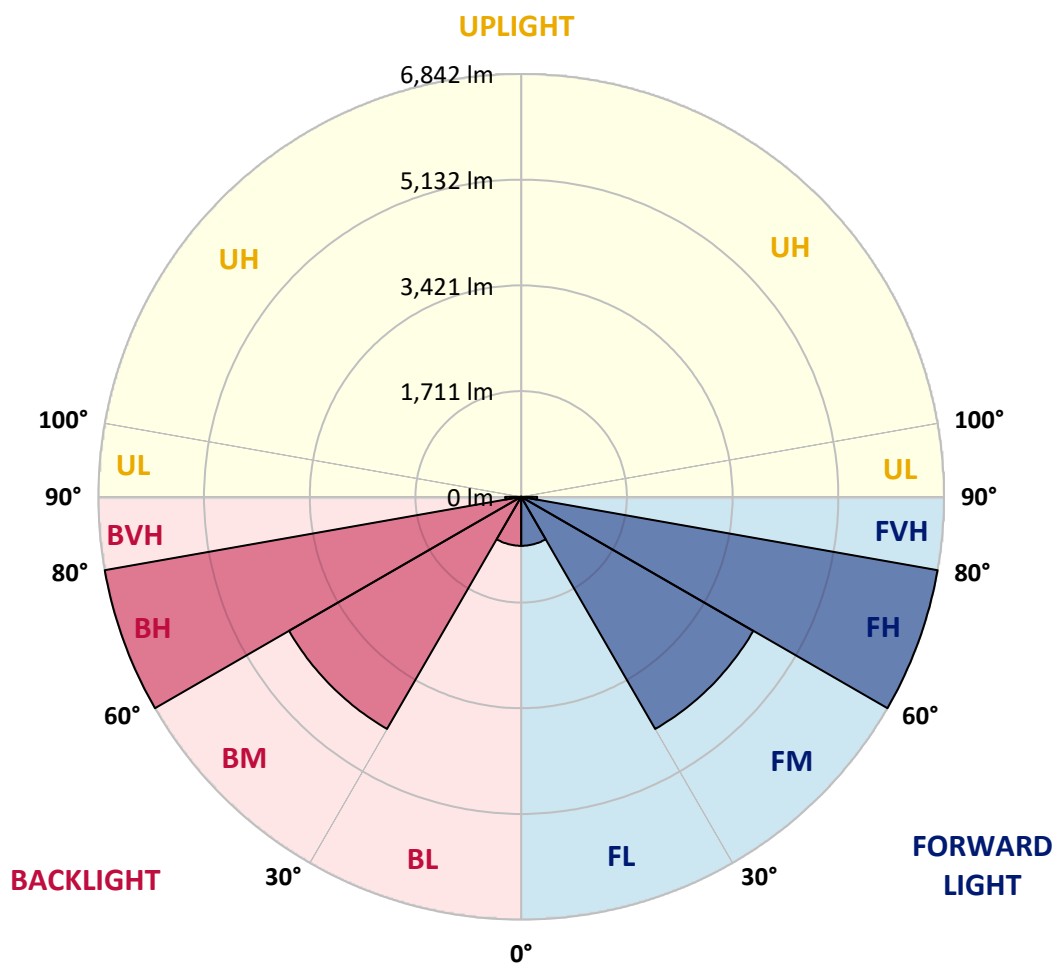
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	792.9	3.2			
FM	(30°-60°)	4337.2	17.7			
FH	(60°-80°)	6842.1	28.0			G3/7500
FVH	(80°-90°)	258.3	1.1			G3/500
BL	(0°-30°)	792.9	3.2	B2/1000		
BM	(30°-60°)	4337.2	17.7	B3/5000		
BH	(60°-80°)	6842.1	28.0	B5		G3/7500
BVH	(80°-90°)	258.3	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°	1732.2	1732.2	1732.2	1732.2	1732.2	1732.2	1732.2	1732.2	1732.2	1732.2	1732.2
2.5°	1732.2	1733.3	1734.5	1733.3	1733.3	1732.2	1731.1	1732.2	1731.1	1728.8	1730.0
5°	1737.9	1740.1	1740.1	1737.9	1739.0	1737.9	1735.6	1736.6	1734.5	1731.1	1731.1
7.5°	1744.6	1745.6	1745.6	1743.4	1744.6	1742.3	1740.1	1739.0	1736.6	1732.2	1728.8
10°	1754.7	1755.8	1754.7	1752.4	1752.4	1749.0	1743.4	1741.1	1736.6	1730.0	1726.7
12.5°	1765.8	1766.9	1765.8	1763.7	1762.5	1756.9	1752.4	1749.0	1745.6	1740.1	1734.5
15°	1781.6	1783.8	1781.6	1777.1	1773.8	1769.2	1766.9	1768.2	1769.2	1764.7	1759.2
17.5°	1810.8	1811.8	1808.5	1798.4	1793.9	1789.4	1789.4	1791.7	1795.0	1792.8	1787.2
20°	1864.6	1861.2	1853.4	1841.0	1835.4	1827.6	1826.5	1827.6	1827.6	1826.5	1822.0
22.5°	1931.9	1929.6	1919.5	1903.9	1895.9	1891.5	1884.8	1879.2	1878.0	1874.7	1870.2
25°	2012.7	2011.6	1999.2	1985.8	1980.1	1974.6	1969.0	1961.1	1954.3	1946.5	1942.0
27.5°	2116.0	2111.4	2093.5	2086.8	2078.8	2075.5	2067.6	2058.7	2053.1	2042.9	2037.3
30°	2229.2	2229.2	2214.6	2212.4	2212.4	2204.6	2195.6	2179.8	2169.8	2159.6	2156.3
32.5°	2342.5	2343.6	2329.1	2333.6	2336.9	2342.5	2344.8	2339.1	2332.4	2331.3	2324.6
35°	2506.3	2501.8	2487.3	2490.7	2489.5	2488.4	2488.4	2500.7	2502.9	2505.2	2491.7
37.5°	2709.4	2709.4	2694.8	2694.8	2688.1	2681.3	2672.4	2680.2	2692.5	2696.0	2686.9
40°	2941.6	2949.5	2931.5	2930.5	2932.6	2911.3	2901.3	2913.6	2921.5	2934.9	2924.8
42.5°	3215.4	3209.7	3191.8	3189.6	3177.3	3170.4	3161.5	3171.6	3184.0	3192.9	3196.3
45°	3477.9	3473.5	3453.2	3453.2	3440.9	3435.2	3439.7	3456.5	3462.2	3474.6	3486.9
47.5°	3737.1	3731.4	3718.0	3723.5	3724.7	3734.8	3749.3	3765.1	3780.8	3797.7	3803.2
50°	4001.8	4002.9	3988.4	4001.8	4018.7	4046.8	4086.0	4111.8	4144.3	4165.6	4172.4
52.5°	4243.1	4247.6	4263.2	4294.7	4328.3	4383.3	4450.5	4513.4	4567.2	4603.2	4600.9
55°	4532.5	4539.1	4577.3	4631.2	4686.1	4769.1	4869.0	4980.1	5069.8	5121.5	5089.0
57.5°	4902.7	4917.3	4960.0	5032.8	5114.8	5222.5	5359.2	5526.5	5665.6	5735.1	5682.5
60°	5410.9	5420.0	5471.4	5552.3	5651.0	5784.5	5967.4	6191.7	6388.1	6480.0	6419.5
62.5°	6080.8	6097.5	6139.1	6220.9	6322.0	6473.4	6696.6	6977.1	7221.7	7349.6	7212.7
65°	6880.6	6934.4	6969.2	7052.2	7146.5	7306.9	7540.3	7841.0	8103.5	8187.7	8029.5
67.5°	7672.7	7719.8	7780.4	7875.7	7971.1	8151.8	8368.2	8660.0	8948.4	9024.6	8778.9
70°	8019.3	8046.3	8140.5	8270.7	8453.5	8666.7	8916.8	9244.4	9601.2	9664.1	9352.1
72.5°	7324.8	7351.8	7457.3	7678.3	7996.9	8335.7	8772.1	9253.5	9724.6	9795.3	9365.6
75°	5540.0	5496.2	5652.1	5944.9	6374.6	6846.9	7457.3	8147.3	8828.2	8916.8	8404.1
77.5°	2863.1	2857.4	2975.2	3338.8	3851.5	4388.8	5060.9	5840.7	6507.1	6776.3	6358.9
80°	806.7	815.6	871.7	1052.3	1351.9	1740.1	2265.2	2995.5	3540.8	3818.9	3585.6
82.5°	316.5	341.1	362.4	396.1	435.3	492.5	657.4	978.3	1312.6	1568.4	1284.6
85°	113.3	121.2	171.6	203.1	206.4	217.7	247.9	289.4	348.9	416.3	342.2
87.5°	42.6	47.1	54.9	90.9	89.7	82.0	99.9	104.4	78.5	71.8	88.6
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°	1732.2	1732.2	1732.2	1732.2	1732.2	1732.2	1732.2	1732.2
2.5°	1727.7	1728.8	1728.8	1730.0	1731.1	1731.1	1733.3	1733.3
5°	1728.8	1728.8	1726.7	1727.7	1726.7	1726.7	1727.7	1727.7
7.5°	1726.7	1725.5	1723.2	1722.2	1719.8	1719.8	1719.8	1719.8
10°	1723.2	1722.2	1719.8	1718.7	1717.7	1717.7	1717.7	1717.7
12.5°	1732.2	1728.8	1726.7	1725.5	1725.5	1725.5	1725.5	1725.5
15°	1755.8	1747.9	1742.3	1742.3	1743.4	1745.6	1745.6	1747.9
17.5°	1785.0	1776.0	1770.3	1765.8	1768.2	1771.5	1773.8	1776.0
20°	1819.7	1815.3	1807.3	1802.9	1802.9	1807.3	1809.7	1810.8
22.5°	1868.0	1864.6	1861.2	1855.7	1855.7	1857.9	1862.4	1862.4
25°	1939.8	1937.5	1935.3	1930.8	1929.6	1929.6	1931.9	1934.1
27.5°	2029.5	2030.7	2028.4	2027.3	2023.9	2022.8	2026.1	2025.0
30°	2149.5	2155.1	2160.8	2156.3	2150.7	2147.3	2144.0	2139.6
32.5°	2312.3	2305.5	2301.0	2293.2	2283.1	2274.1	2267.3	2259.5
35°	2466.0	2454.7	2450.2	2456.9	2455.8	2450.2	2442.4	2435.6
37.5°	2654.5	2652.2	2654.5	2666.8	2664.5	2670.1	2654.5	2653.3
40°	2892.3	2894.5	2910.2	2924.8	2932.6	2940.5	2931.5	2922.5
42.5°	3168.3	3167.1	3172.8	3192.9	3206.4	3215.4	3196.3	3194.0
45°	3459.9	3452.0	3456.5	3473.5	3486.9	3497.0	3475.6	3475.6
47.5°	3780.8	3767.4	3752.7	3771.8	3779.8	3786.4	3769.6	3764.0
50°	4138.7	4110.7	4079.2	4087.1	4087.1	4084.8	4063.6	4062.4
52.5°	4549.3	4497.6	4440.6	4419.2	4406.9	4393.4	4356.3	4338.3
55°	5021.7	4944.2	4854.5	4799.5	4770.4	4733.3	4671.6	4654.8
57.5°	5573.7	5452.5	5297.7	5230.3	5165.2	5104.7	5036.2	5017.1
60°	6227.7	6049.2	5843.9	5719.5	5648.8	5590.5	5519.8	5516.4
62.5°	6956.9	6675.3	6443.1	6330.9	6279.2	6227.7	6160.4	6169.4
65°	7698.5	7404.5	7186.8	7096.1	7047.8	7005.1	6937.9	6947.9
67.5°	8430.0	8159.6	7920.6	7827.6	7773.7	7719.8	7659.2	7669.4
70°	8955.0	8619.6	8350.3	8143.8	8014.8	7869.1	7774.8	7751.2
72.5°	8804.6	8287.6	7860.0	7450.5	7210.4	7015.2	6882.9	6825.7
75°	7620.0	6913.2	6363.5	5860.7	5578.1	5348.1	5181.0	5076.6
77.5°	5658.9	4864.6	4215.0	3636.0	3178.4	2870.9	2654.5	2514.2
80°	3097.6	2355.9	1722.2	1210.5	889.7	739.3	653.0	611.5
82.5°	964.9	622.7	458.9	396.1	367.9	352.3	326.4	284.9
85°	307.4	269.3	250.2	239.0	227.7	198.6	136.9	124.5
87.5°	118.9	122.3	121.2	114.4	116.7	84.1	67.3	59.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)