

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: P193424

Luminaire Tested: **GLEON-AF-06-LED-E1-5WQ-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193424  
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-06-LED-E1-5WQ-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 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: 24722 lumens  
Efficiency: N/A  
Efficacy: 99.3 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): 249  
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

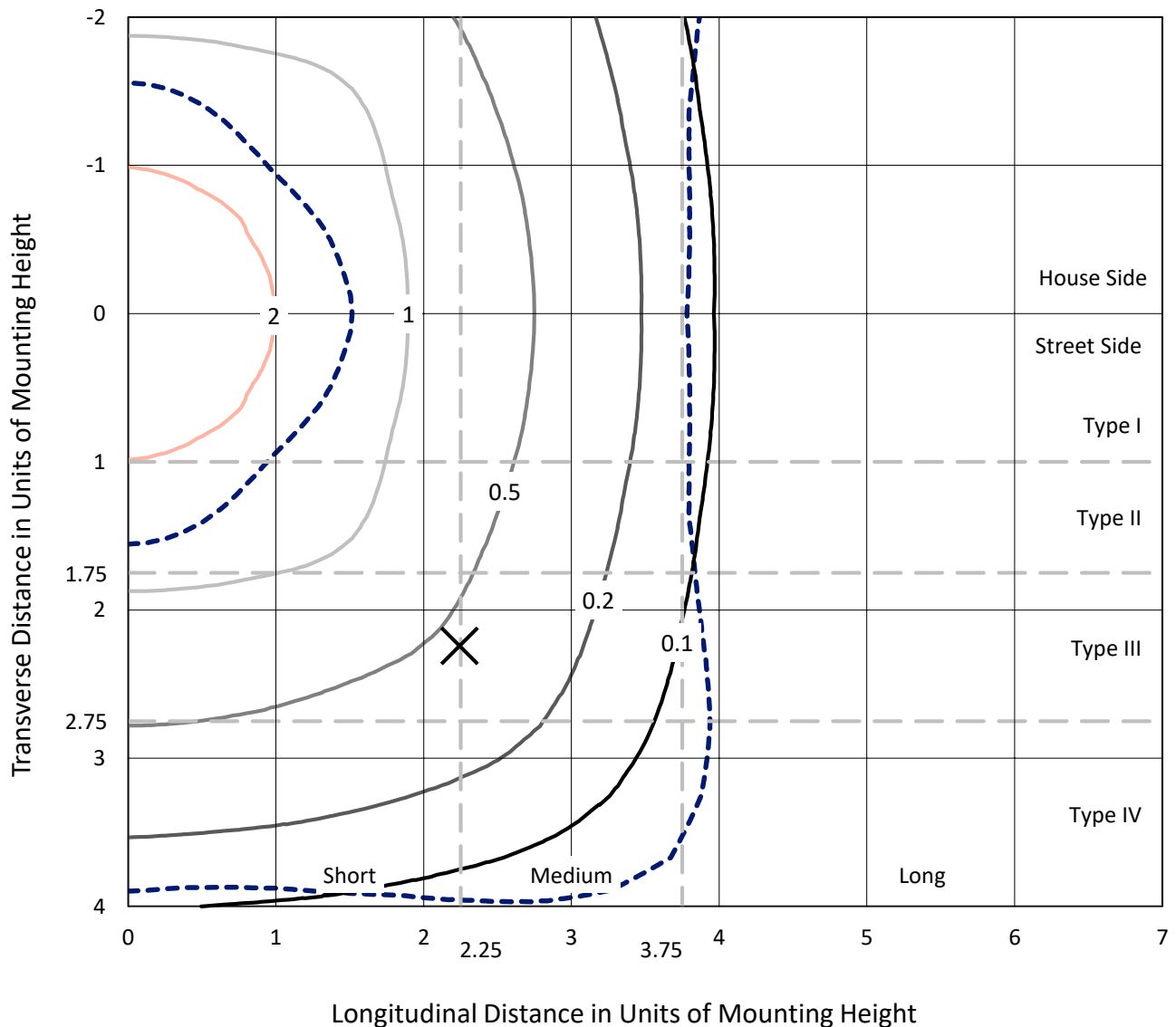


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

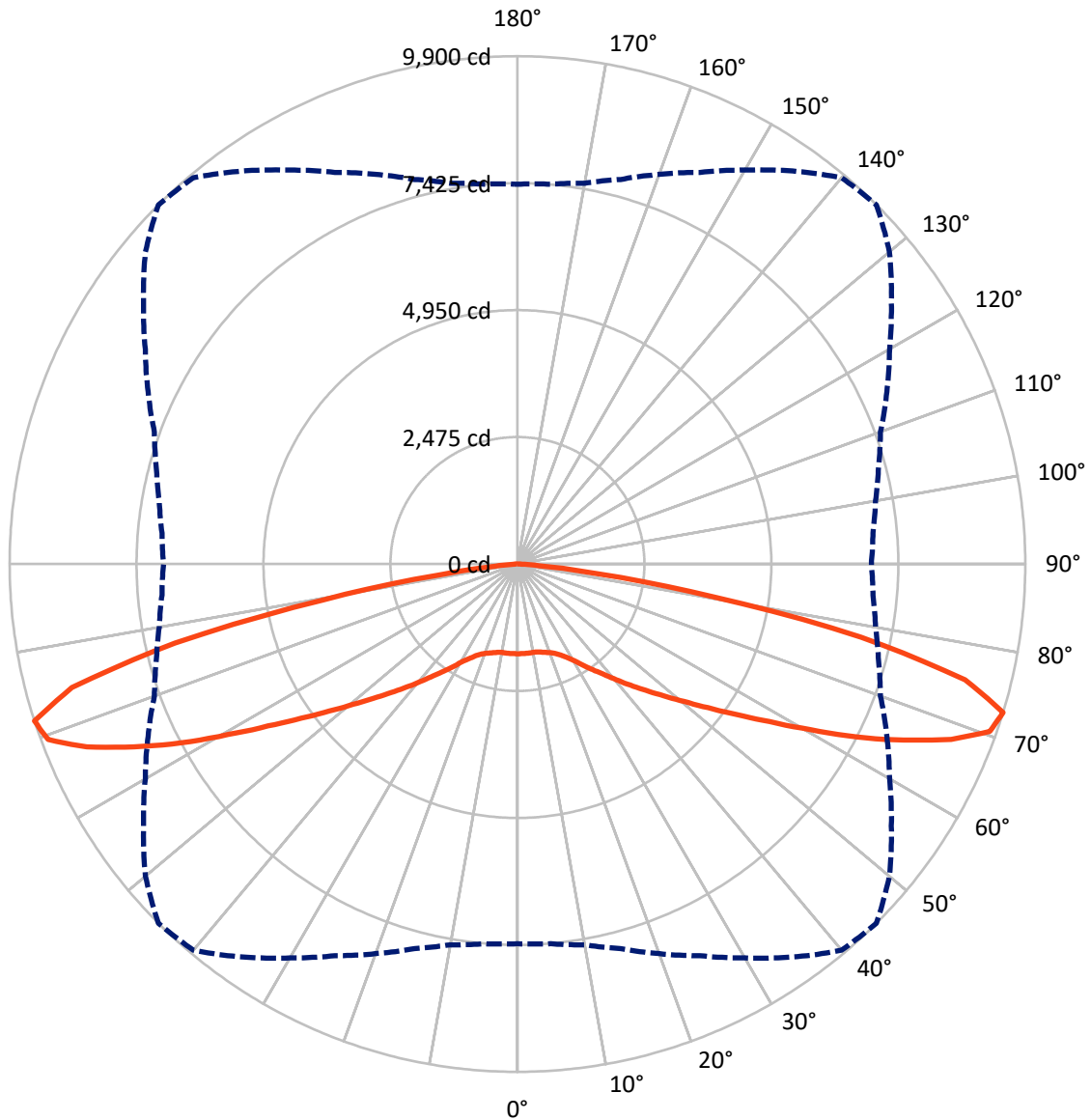


Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12361.0	0.0	12361.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12361.0	0.0	12361.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	24722.0	0.0	24722.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.2	0.7
10°-20°	507.7	2.1
20°-30°	927.8	3.8
30°-40°	1599.7	6.5
40°-50°	2734.7	11.1
50°-60°	4432.6	17.9
60°-70°	7353.5	29.7
70°-80°	6476.7	26.2
80°-90°	522.2	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°	24722.0	100.0
0°-180°	24722.0	100.0



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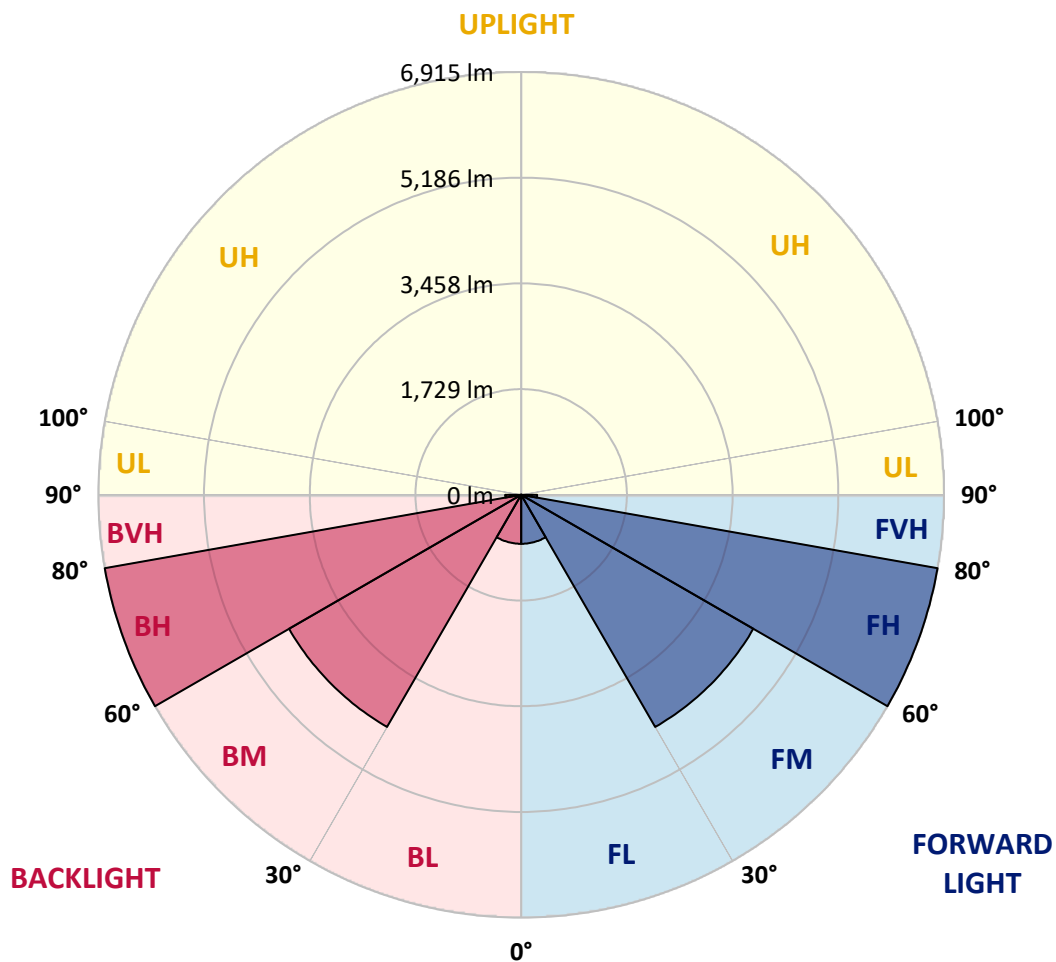
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	801.4	3.2			
FM	(30°-60°)	4383.5	17.7			
FH	(60°-80°)	6915.1	28.0			G3/7500
FVH	(80°-90°)	261.1	1.1			G3/500
BL	(0°-30°)	801.4	3.2	B2/1000		
BM	(30°-60°)	4383.5	17.7	B3/5000		
BH	(60°-80°)	6915.1	28.0	B5		G3/7500
BVH	(80°-90°)	261.1	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°	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7
2.5°	1750.7	1751.8	1753.0	1751.8	1751.8	1750.7	1749.6	1750.7	1749.6	1747.3	1748.4
5°	1756.4	1758.6	1758.6	1756.4	1757.5	1756.4	1754.1	1755.2	1753.0	1749.6	1749.6
7.5°	1763.2	1764.3	1764.3	1762.0	1763.2	1760.9	1758.6	1757.5	1755.2	1750.7	1747.3
10°	1773.4	1774.5	1773.4	1771.1	1771.1	1767.7	1762.0	1759.8	1755.2	1748.4	1745.0
12.5°	1784.7	1785.9	1784.7	1782.5	1781.3	1775.6	1771.1	1767.7	1764.3	1758.6	1753.0
15°	1800.6	1802.9	1800.6	1796.1	1792.7	1788.1	1785.9	1787.0	1788.1	1783.6	1777.9
17.5°	1830.1	1831.2	1827.8	1817.6	1813.1	1808.5	1808.5	1810.8	1814.2	1811.9	1806.3
20°	1884.5	1881.1	1873.2	1860.7	1855.0	1847.1	1845.9	1847.1	1847.1	1845.9	1841.4
22.5°	1952.5	1950.3	1940.1	1924.2	1916.2	1911.7	1904.9	1899.2	1898.1	1894.7	1890.2
25°	2034.2	2033.0	2020.6	2007.0	2001.3	1995.6	1989.9	1982.0	1975.2	1967.3	1962.7
27.5°	2138.5	2134.0	2115.8	2109.0	2101.1	2097.7	2089.7	2080.7	2075.0	2064.8	2059.1
30°	2253.0	2253.0	2238.3	2236.0	2236.0	2228.1	2219.0	2203.1	2192.9	2182.7	2179.3
32.5°	2367.5	2368.7	2353.9	2358.5	2361.9	2367.5	2369.8	2364.1	2357.3	2356.2	2349.4
35°	2533.1	2528.5	2513.8	2517.2	2516.1	2514.9	2514.9	2527.4	2529.7	2531.9	2518.3
37.5°	2738.3	2738.3	2723.6	2723.6	2716.8	2710.0	2700.9	2708.8	2721.3	2724.7	2715.6
40°	2973.0	2981.0	2962.8	2961.7	2963.9	2942.4	2932.2	2944.7	2952.6	2966.2	2956.0
42.5°	3249.7	3244.0	3225.9	3223.6	3211.1	3204.3	3195.3	3205.5	3217.9	3227.0	3230.4
45°	3515.0	3510.5	3490.1	3490.1	3477.6	3471.9	3476.5	3493.5	3499.1	3511.6	3524.1
47.5°	3776.9	3771.3	3757.7	3763.3	3764.5	3774.7	3789.4	3805.3	3821.2	3838.2	3843.8
50°	4044.5	4045.7	4030.9	4044.5	4061.5	4089.9	4129.6	4155.6	4188.5	4210.1	4216.9
52.5°	4288.3	4292.8	4308.7	4340.5	4374.5	4430.0	4498.1	4561.6	4616.0	4652.3	4650.0
55°	4580.9	4587.7	4626.2	4680.6	4736.2	4820.1	4921.0	5033.3	5124.0	5176.1	5143.3
57.5°	4955.0	4969.8	5012.9	5086.6	5169.3	5278.2	5416.5	5585.5	5726.1	5796.4	5743.1
60°	5468.7	5477.7	5529.9	5611.5	5711.3	5846.3	6031.1	6257.9	6456.3	6549.3	6488.0
62.5°	6145.6	6162.6	6204.6	6287.3	6389.4	6542.5	6768.1	7051.6	7298.7	7428.0	7289.7
65°	6954.0	7008.5	7043.6	7127.5	7222.8	7384.9	7620.8	7924.6	8190.0	8275.0	8115.1
67.5°	7754.6	7802.2	7863.4	7959.8	8056.2	8238.7	8457.6	8752.4	9043.8	9120.9	8872.6
70°	8104.9	8132.1	8227.4	8358.9	8543.7	8759.2	9012.0	9343.1	9703.7	9767.2	9452.0
72.5°	7403.1	7430.3	7536.9	7760.2	8082.3	8424.7	8865.8	9352.2	9828.4	9899.9	9465.6
75°	5599.1	5554.8	5712.5	6008.4	6442.7	6920.0	7536.9	8234.2	8922.5	9012.0	8493.9
77.5°	2893.6	2888.0	3007.0	3374.4	3892.6	4435.7	5114.9	5902.9	6576.5	6848.6	6426.8
80°	815.3	824.3	881.0	1063.6	1366.3	1758.6	2289.3	3027.4	3578.5	3859.7	3623.9
82.5°	319.8	344.7	366.2	400.3	439.9	497.8	664.5	988.7	1326.6	1585.2	1298.3
85°	114.5	122.5	173.5	205.2	208.6	220.0	250.6	292.5	352.6	420.7	345.8
87.5°	43.1	47.6	55.6	91.8	90.7	82.8	100.9	105.5	79.4	72.6	89.6
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°	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7	1750.7
2.5°	1746.2	1747.3	1747.3	1748.4	1749.6	1749.6	1751.8	1751.8
5°	1747.3	1747.3	1745.0	1746.2	1745.0	1745.0	1746.2	1746.2
7.5°	1745.0	1743.9	1741.6	1740.5	1738.2	1738.2	1738.2	1738.2
10°	1741.6	1740.5	1738.2	1737.1	1736.0	1736.0	1736.0	1736.0
12.5°	1750.7	1747.3	1745.0	1743.9	1743.9	1743.9	1743.9	1743.9
15°	1774.5	1766.6	1760.9	1760.9	1762.0	1764.3	1764.3	1766.6
17.5°	1804.0	1794.9	1789.3	1784.7	1787.0	1790.4	1792.7	1794.9
20°	1839.1	1834.6	1826.7	1822.1	1822.1	1826.7	1828.9	1830.1
22.5°	1887.9	1884.5	1881.1	1875.4	1875.4	1877.7	1882.2	1882.2
25°	1960.5	1958.2	1955.9	1951.4	1950.3	1950.3	1952.5	1954.8
27.5°	2051.2	2052.3	2050.0	2048.9	2045.5	2044.4	2047.8	2046.6
30°	2172.5	2178.2	2183.8	2179.3	2173.6	2170.2	2166.8	2162.3
32.5°	2336.9	2330.1	2325.6	2317.6	2307.4	2298.4	2291.6	2283.6
35°	2492.3	2480.9	2476.4	2483.2	2482.1	2476.4	2468.4	2461.6
37.5°	2682.7	2680.5	2682.7	2695.2	2693.0	2698.6	2682.7	2681.6
40°	2923.1	2925.4	2941.3	2956.0	2963.9	2971.9	2962.8	2953.7
42.5°	3202.1	3200.9	3206.6	3227.0	3240.6	3249.7	3230.4	3228.1
45°	3496.9	3488.9	3493.5	3510.5	3524.1	3534.3	3512.7	3512.7
47.5°	3821.2	3807.5	3792.8	3812.1	3820.0	3826.8	3809.8	3804.1
50°	4182.9	4154.5	4122.8	4130.7	4130.7	4128.4	4106.9	4105.8
52.5°	4597.9	4545.7	4487.9	4466.3	4453.9	4440.3	4402.8	4384.7
55°	5075.2	4997.0	4906.3	4850.7	4821.2	4783.8	4721.5	4704.4
57.5°	5633.1	5510.6	5354.2	5286.1	5220.4	5159.1	5090.0	5070.7
60°	6294.1	6113.8	5906.4	5780.5	5709.1	5650.1	5578.7	5575.3
62.5°	7031.2	6746.6	6511.8	6398.5	6346.3	6294.1	6226.1	6235.2
65°	7780.6	7483.6	7263.6	7171.8	7123.0	7079.9	7011.9	7022.1
67.5°	8519.9	8246.7	8005.2	7911.0	7856.6	7802.2	7741.0	7751.2
70°	9050.6	8711.6	8439.4	8230.8	8100.4	7953.0	7857.7	7833.9
72.5°	8898.6	8375.9	7943.9	7530.1	7287.4	7090.1	6956.3	6898.5
75°	7701.3	6986.9	6431.3	5923.4	5637.6	5405.2	5236.2	5130.8
77.5°	5719.3	4916.5	4260.0	3674.9	3212.3	2901.6	2682.7	2541.0
80°	3130.6	2381.1	1740.5	1223.5	899.2	747.2	659.9	618.0
82.5°	975.1	629.3	463.8	400.3	371.9	356.0	330.0	288.0
85°	310.7	272.1	252.9	241.5	230.2	200.7	138.3	125.9
87.5°	120.2	123.6	122.5	115.7	117.9	85.0	68.0	60.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)