

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: P299905

Luminaire Tested: **GLNA-AF-06-LED-E1-5WQ-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299905
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: GLNA-AF-06-LED-E1-5WQ-7027-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
w/Spill Control OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26229.8 lumens
Efficiency: N/A
Efficacy: 105.3 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

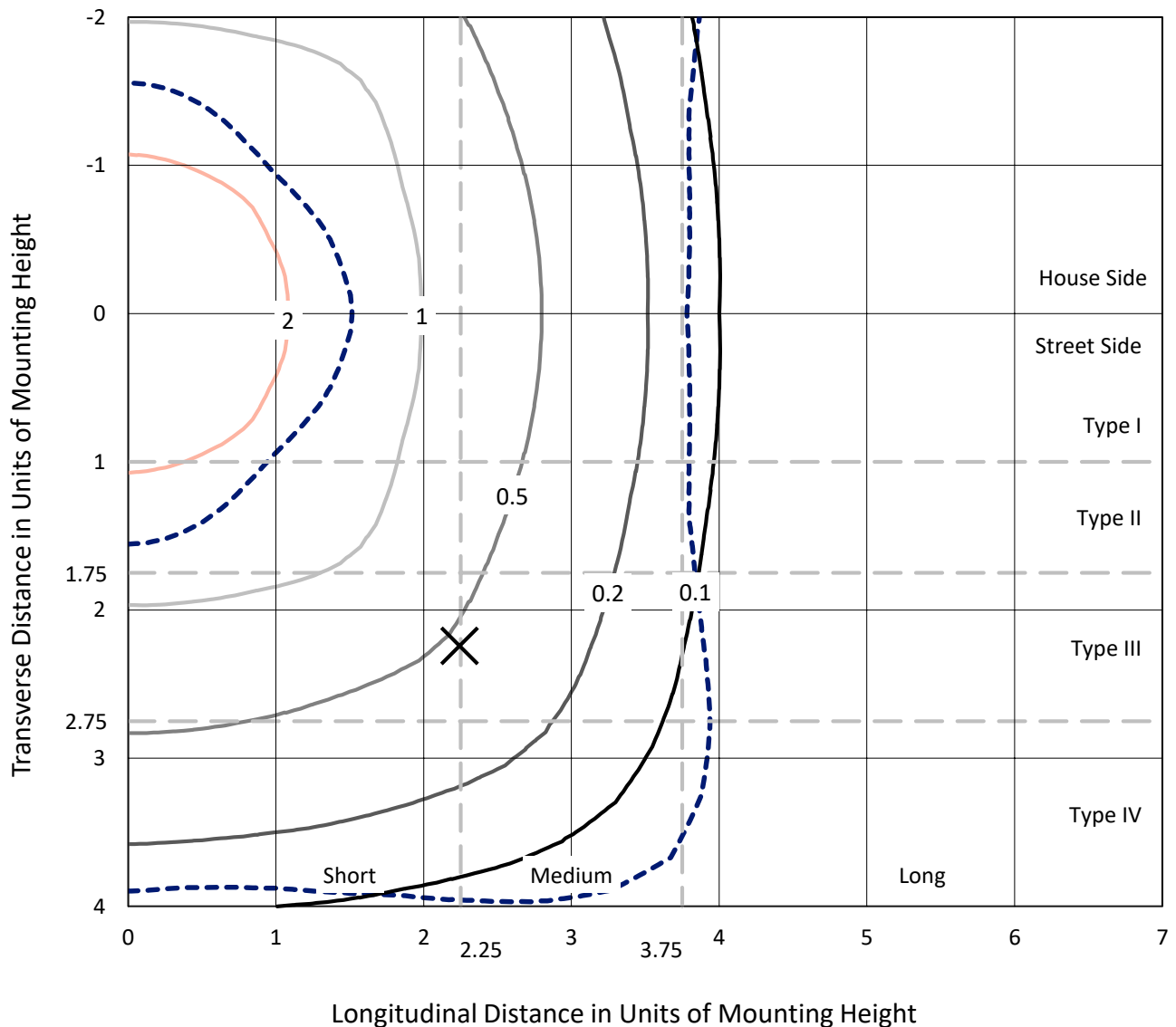


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

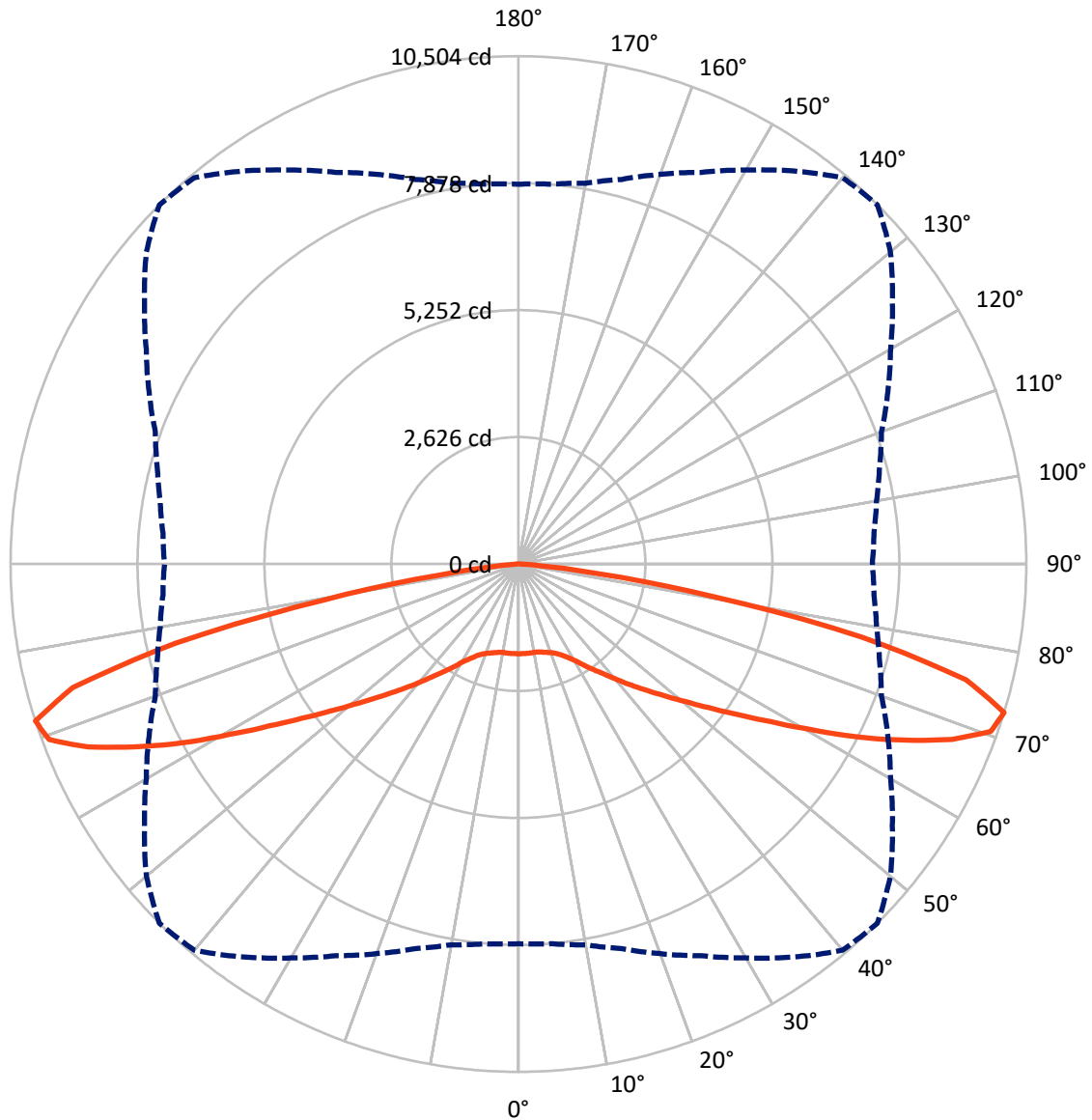


Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - Semi-Cutoff

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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	13114.9	0.0	13114.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13114.9	0.0	13114.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	26229.8	0.0	26229.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.4	0.7
10°-20°	538.7	2.1
20°-30°	984.4	3.8
30°-40°	1697.3	6.5
40°-50°	2901.5	11.1
50°-60°	4702.9	17.9
60°-70°	7801.9	29.7
70°-80°	6871.7	26.2
80°-90°	554.0	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°	26229.8	100.0
0°-180°	26229.8	100.0



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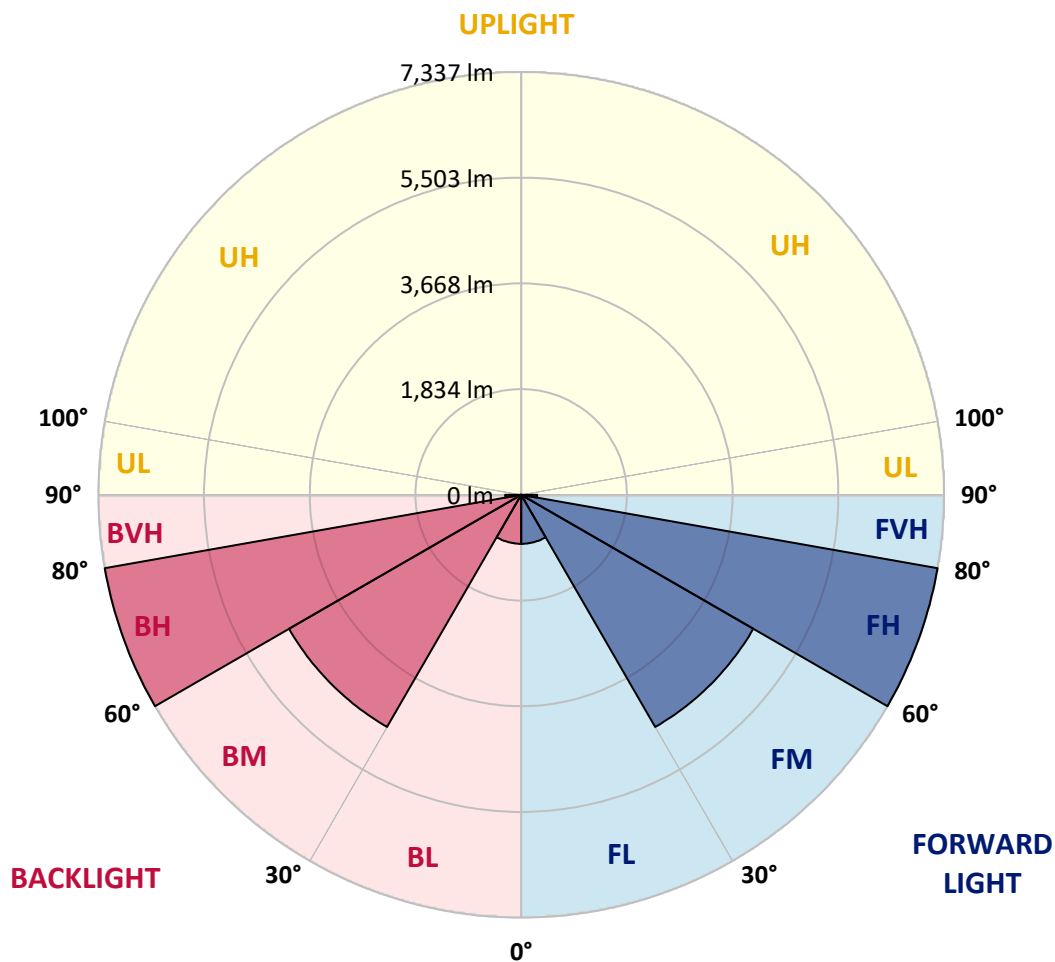
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	850.2	3.2			
FM	(30°-60°)	4650.8	17.7			
FH	(60°-80°)	7336.8	28.0			G3/7500
FVH	(80°-90°)	277.0	1.1			G3/500
BL	(0°-30°)	850.2	3.2	B2/1000		
BM	(30°-60°)	4650.8	17.7	B3/5000		
BH	(60°-80°)	7336.8	28.0	B5		G3/7500
BVH	(80°-90°)	277.0	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°	1857.5	1857.5	1857.5	1857.5	1857.5	1857.5	1857.5	1857.5	1857.5	1857.5	1857.5
2.5°	1857.5	1858.7	1859.9	1858.7	1858.7	1857.5	1856.3	1857.5	1856.3	1853.9	1855.1
5°	1863.5	1865.9	1865.9	1863.5	1864.7	1863.5	1861.1	1862.3	1859.9	1856.3	1856.3
7.5°	1870.7	1871.9	1871.9	1869.5	1870.7	1868.3	1865.9	1864.7	1862.3	1857.5	1853.9
10°	1881.5	1882.7	1881.5	1879.1	1879.1	1875.5	1869.5	1867.1	1862.3	1855.1	1851.5
12.5°	1893.6	1894.8	1893.6	1891.2	1890.0	1883.9	1879.1	1875.5	1871.9	1865.9	1859.9
15°	1910.4	1912.8	1910.4	1905.6	1902.0	1897.2	1894.8	1896.0	1897.2	1892.4	1886.3
17.5°	1941.7	1942.9	1939.3	1928.5	1923.6	1918.8	1918.8	1921.2	1924.8	1922.4	1916.4
20°	1999.4	1995.8	1987.4	1974.2	1968.2	1959.7	1958.5	1959.7	1959.7	1958.5	1953.7
22.5°	2071.6	2069.2	2058.4	2041.5	2033.1	2028.3	2021.1	2015.1	2013.9	2010.3	2005.4
25°	2158.2	2157.0	2143.8	2129.4	2123.3	2117.3	2111.3	2102.9	2095.7	2087.3	2082.4
27.5°	2268.9	2264.1	2244.8	2237.6	2229.2	2225.6	2217.2	2207.6	2201.5	2190.7	2184.7
30°	2390.4	2390.4	2374.8	2372.4	2372.4	2363.9	2354.3	2337.5	2326.7	2315.8	2312.2
32.5°	2511.9	2513.1	2497.5	2502.3	2505.9	2511.9	2514.3	2508.3	2501.1	2499.9	2492.7
35°	2687.6	2682.8	2667.1	2670.7	2669.5	2668.3	2668.3	2681.5	2684.0	2686.4	2671.9
37.5°	2905.3	2905.3	2889.7	2889.7	2882.5	2875.2	2865.6	2874.0	2887.3	2890.9	2881.3
40°	3154.3	3162.8	3143.5	3142.3	3144.7	3121.9	3111.0	3124.3	3132.7	3147.1	3136.3
42.5°	3447.9	3441.9	3422.6	3420.2	3407.0	3399.8	3390.1	3401.0	3414.2	3423.8	3427.4
45°	3729.4	3724.6	3702.9	3702.9	3689.7	3683.7	3688.5	3706.5	3712.5	3725.8	3739.0
47.5°	4007.3	4001.3	3986.8	3992.8	3994.1	4004.9	4020.5	4037.4	4054.2	4072.2	4078.3
50°	4291.2	4292.4	4276.8	4291.2	4309.2	4339.3	4381.4	4409.1	4444.0	4466.8	4474.1
52.5°	4549.8	4554.7	4571.5	4605.2	4641.3	4700.2	4772.4	4839.8	4897.5	4936.0	4933.6
55°	4860.2	4867.4	4908.4	4966.1	5025.0	5114.1	5221.1	5340.2	5436.5	5491.8	5456.9
57.5°	5257.2	5272.9	5318.6	5396.8	5484.6	5600.1	5746.9	5926.1	6075.3	6149.9	6093.3
60°	5802.2	5811.8	5867.2	5953.8	6059.6	6202.8	6398.9	6639.5	6850.0	6948.7	6883.7
62.5°	6520.4	6538.5	6583.0	6670.8	6779.1	6941.5	7180.9	7481.6	7743.9	7881.0	7734.3
65°	7378.2	7435.9	7473.2	7562.2	7663.3	7835.3	8085.5	8408.0	8689.5	8779.7	8610.1
67.5°	8227.5	8278.0	8343.0	8445.3	8547.5	8741.2	8973.4	9286.2	9595.3	9677.2	9413.7
70°	8599.2	8628.1	8729.2	8868.7	9064.8	9293.4	9561.7	9912.9	10295.5	10362.9	10028.4
72.5°	7854.6	7883.4	7996.5	8233.5	8575.2	8938.5	9406.5	9922.6	10427.8	10503.6	10042.9
75°	5940.5	5893.6	6060.9	6374.8	6835.6	7342.1	7996.5	8736.4	9466.6	9561.7	9011.9
77.5°	3070.1	3064.1	3190.4	3580.2	4130.0	4706.2	5426.9	6263.0	6977.6	7266.3	6818.8
80°	865.0	874.6	934.8	1128.4	1449.6	1865.9	2428.9	3212.1	3796.8	4095.1	3844.9
82.5°	339.3	365.7	388.6	424.7	466.8	528.1	705.0	1049.0	1407.5	1681.8	1377.5
85°	121.5	129.9	184.1	217.7	221.4	233.4	265.9	310.4	374.1	446.3	366.9
87.5°	45.7	50.5	58.9	97.4	96.2	87.8	107.1	111.9	84.2	77.0	95.0
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°	1857.5	1857.5	1857.5	1857.5	1857.5	1857.5	1857.5	1857.5
2.5°	1852.7	1853.9	1853.9	1855.1	1856.3	1856.3	1858.7	1858.7
5°	1853.9	1853.9	1851.5	1852.7	1851.5	1851.5	1852.7	1852.7
7.5°	1851.5	1850.3	1847.8	1846.6	1844.2	1844.2	1844.2	1844.2
10°	1847.8	1846.6	1844.2	1843.0	1841.8	1841.8	1841.8	1841.8
12.5°	1857.5	1853.9	1851.5	1850.3	1850.3	1850.3	1850.3	1850.3
15°	1882.7	1874.3	1868.3	1868.3	1869.5	1871.9	1871.9	1874.3
17.5°	1914.0	1904.4	1898.4	1893.6	1896.0	1899.6	1902.0	1904.4
20°	1951.3	1946.5	1938.1	1933.3	1933.3	1938.1	1940.5	1941.7
22.5°	2003.0	1999.4	1995.8	1989.8	1989.8	1992.2	1997.0	1997.0
25°	2080.0	2077.6	2075.2	2070.4	2069.2	2069.2	2071.6	2074.0
27.5°	2176.3	2177.5	2175.1	2173.9	2170.3	2169.1	2172.7	2171.5
30°	2305.0	2311.0	2317.0	2312.2	2306.2	2302.6	2299.0	2294.2
32.5°	2479.4	2472.2	2467.4	2459.0	2448.2	2438.5	2431.3	2422.9
35°	2644.3	2632.2	2627.4	2634.6	2633.4	2627.4	2619.0	2611.8
37.5°	2846.4	2844.0	2846.4	2859.6	2857.2	2863.2	2846.4	2845.2
40°	3101.4	3103.8	3120.7	3136.3	3144.7	3153.1	3143.5	3133.9
42.5°	3397.3	3396.1	3402.2	3423.8	3438.3	3447.9	3427.4	3425.0
45°	3710.1	3701.7	3706.5	3724.6	3739.0	3749.8	3727.0	3727.0
47.5°	4054.2	4039.8	4024.1	4044.6	4053.0	4060.2	4042.2	4036.2
50°	4438.0	4407.9	4374.2	4382.6	4382.6	4380.2	4357.4	4356.2
52.5°	4878.3	4822.9	4761.6	4738.7	4725.5	4711.1	4671.4	4652.1
55°	5384.7	5301.7	5205.5	5146.6	5115.3	5075.6	5009.4	4991.4
57.5°	5976.6	5846.7	5680.7	5608.5	5538.7	5473.8	5400.4	5379.9
60°	6678.0	6486.7	6266.6	6133.0	6057.2	5994.7	5918.9	5915.3
62.5°	7460.0	7158.0	6909.0	6788.7	6733.3	6678.0	6605.8	6615.4
65°	8255.2	7940.0	7706.6	7609.1	7557.4	7511.7	7439.5	7450.3
67.5°	9039.5	8749.6	8493.4	8393.5	8335.8	8278.0	8213.1	8223.9
70°	9602.6	9242.9	8954.1	8732.8	8594.4	8438.0	8337.0	8311.7
72.5°	9441.4	8886.8	8428.4	7989.3	7731.9	7522.5	7380.6	7319.2
75°	8171.0	7413.1	6823.6	6284.6	5981.5	5734.8	5555.6	5443.7
77.5°	6068.1	5216.3	4519.8	3899.0	3408.2	3078.5	2846.4	2696.0
80°	3321.6	2526.4	1846.6	1298.1	954.0	792.8	700.2	655.6
82.5°	1034.6	667.7	492.0	424.7	394.6	377.8	350.1	305.6
85°	329.6	288.7	268.3	256.2	244.2	212.9	146.8	133.5
87.5°	127.5	131.1	129.9	122.7	125.1	90.2	72.2	63.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)