

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: P193561

Luminaire Tested: **GLEON-AF-03-LED-E1-RW-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-RW-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16628 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 191
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

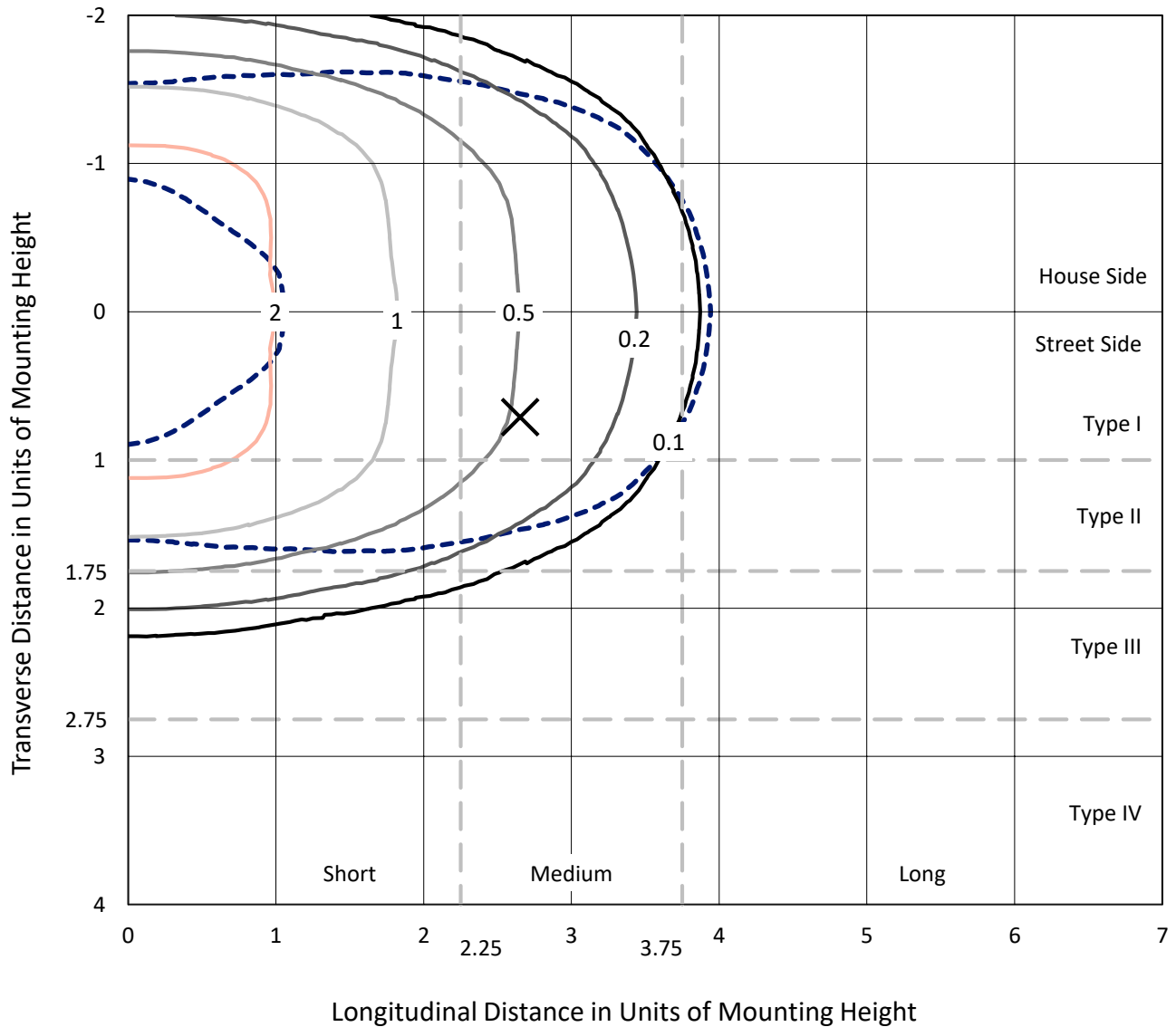


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

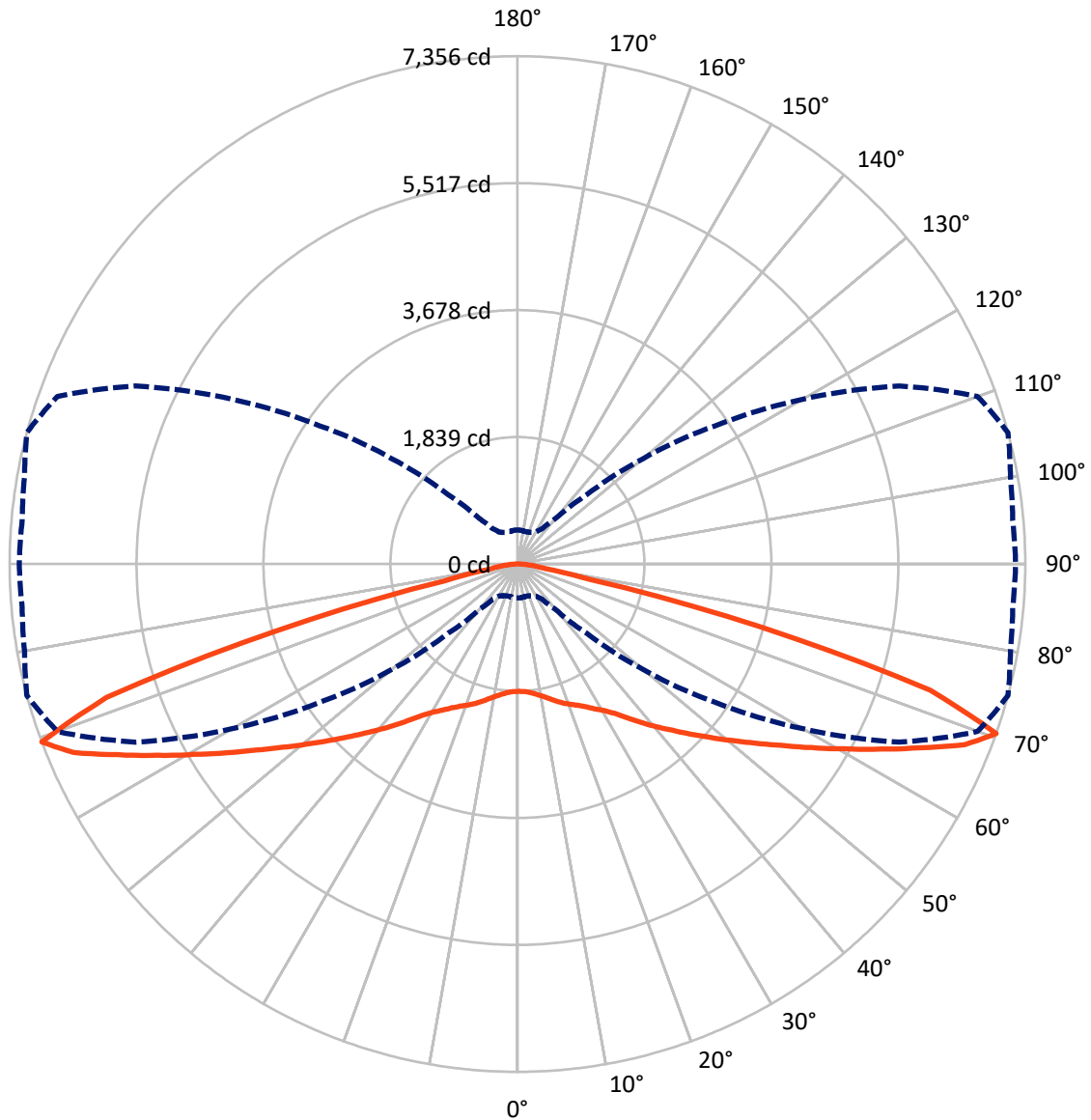


Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8314.0	0.0	8314.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8314.0	0.0	8314.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16628.0	0.0	16628.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.9	1.1
10°-20°	549.6	3.3
20°-30°	1034.5	6.2
30°-40°	1831.9	11.0
40°-50°	3063.5	18.4
50°-60°	4269.1	25.7
60°-70°	3958.9	23.8
70°-80°	1577.7	9.5
80°-90°	165.8	1.0
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°	16628.0	100.0
0°-180°	16628.0	100.0



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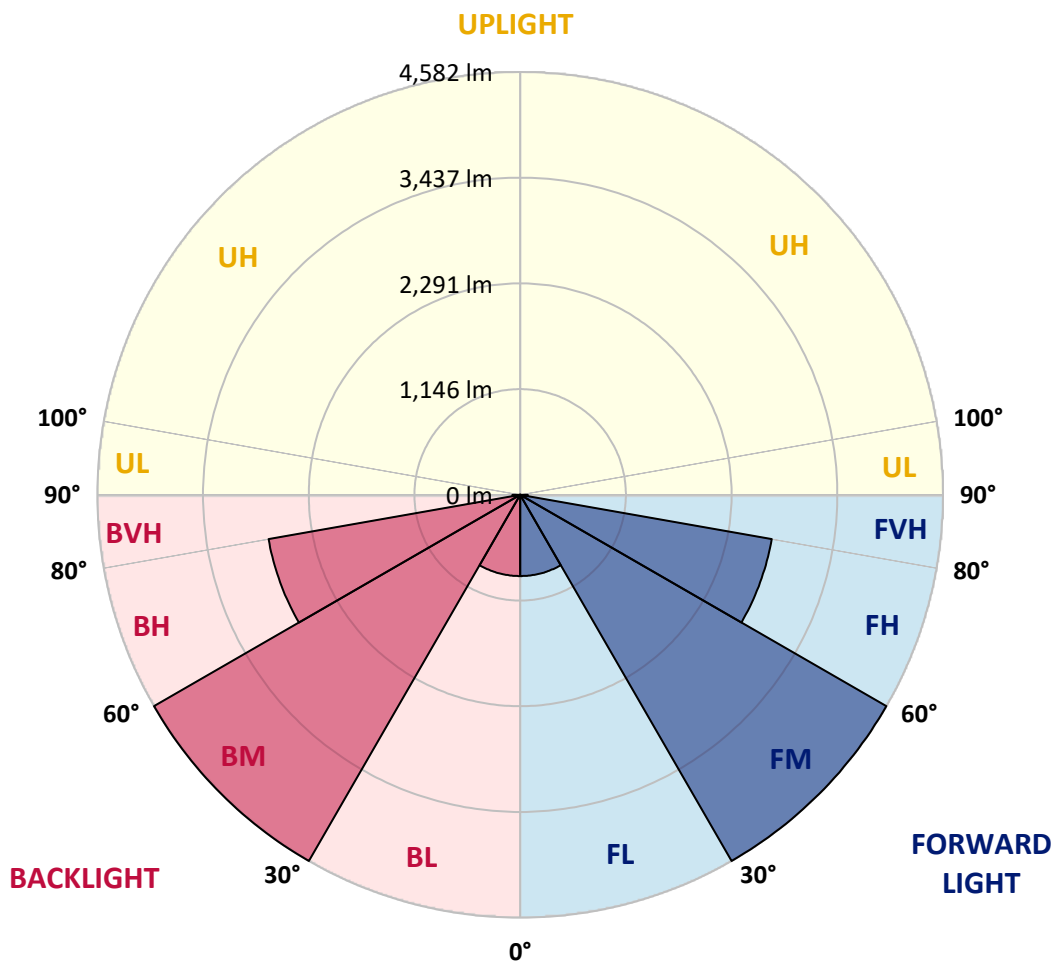
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	880.5	5.3			
FM	(30°-60°)	4582.3	27.6			
FH	(60°-80°)	2768.3	16.6			G2/5000
FVH	(80°-90°)	82.9	0.5			G1/100
BL	(0°-30°)	880.5	5.3	B2/1000		
BM	(30°-60°)	4582.3	27.6	B3/5000		
BH	(60°-80°)	2768.3	16.6	B4/5000		G4/5000
BVH	(80°-90°)	82.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1844.4	1844.4	1844.4	1844.4	1844.4	1844.4	1844.4	1844.4	1844.4	1844.4	1844.4
2.5°	1841.3	1839.7	1841.3	1840.5	1842.1	1842.1	1843.6	1846.8	1846.8	1849.1	1848.4
5°	1823.2	1822.4	1824.8	1827.1	1829.5	1834.2	1838.9	1846.0	1851.5	1855.4	1859.4
7.5°	1787.9	1787.9	1791.0	1796.5	1802.0	1812.2	1823.2	1837.4	1851.5	1863.3	1873.5
10°	1758.8	1760.3	1764.3	1773.7	1783.1	1798.9	1813.8	1834.2	1853.9	1873.5	1889.2
12.5°	1741.5	1743.8	1750.9	1765.1	1780.8	1802.0	1824.8	1850.7	1872.7	1896.3	1912.0
15°	1747.0	1748.6	1758.8	1776.1	1796.5	1823.2	1853.9	1884.5	1910.4	1935.6	1956.8
17.5°	1777.6	1780.0	1791.8	1811.4	1832.6	1864.1	1897.1	1931.7	1963.9	1992.2	2018.1
20°	1832.6	1835.0	1849.9	1871.2	1896.3	1928.5	1961.5	1997.7	2033.8	2063.7	2092.8
22.5°	1910.4	1914.4	1928.5	1949.7	1978.0	2012.6	2051.9	2090.4	2125.0	2152.5	2178.4
25°	2012.6	2021.3	2034.6	2058.2	2088.1	2119.5	2161.9	2201.2	2234.2	2260.2	2279.0
27.5°	2157.2	2169.0	2179.2	2202.0	2231.1	2260.9	2303.4	2338.0	2369.4	2394.5	2408.7
30°	2349.0	2360.7	2371.0	2393.0	2419.7	2448.0	2488.1	2518.7	2538.4	2558.0	2557.2
32.5°	2581.6	2594.2	2598.1	2621.7	2649.2	2679.8	2716.0	2733.2	2749.0	2751.3	2737.2
35°	2841.7	2848.0	2863.7	2895.1	2926.6	2951.7	2986.3	2994.9	2994.9	2983.2	2951.7
37.5°	3127.0	3130.9	3152.9	3188.3	3220.5	3246.4	3270.0	3287.3	3278.6	3253.5	3200.8
40°	3439.7	3446.8	3478.3	3509.7	3545.8	3570.2	3595.3	3598.5	3589.8	3552.9	3481.4
42.5°	3738.4	3744.7	3776.1	3825.6	3872.8	3906.6	3930.1	3934.8	3907.3	3873.5	3784.7
45°	3995.4	4011.9	4052.7	4110.9	4179.2	4227.2	4259.4	4272.8	4248.4	4204.4	4101.4
47.5°	4198.9	4215.4	4273.6	4342.7	4427.6	4505.4	4558.8	4587.1	4580.8	4547.8	4435.4
50°	4348.2	4363.9	4426.8	4511.7	4610.7	4707.4	4798.5	4866.1	4889.7	4874.7	4771.8
52.5°	4365.5	4391.4	4465.3	4579.3	4708.1	4840.2	4969.8	5084.6	5162.4	5174.2	5097.9
55°	4124.2	4150.2	4252.3	4421.3	4613.0	4828.4	5035.8	5229.2	5382.4	5461.0	5420.9
57.5°	3555.3	3601.6	3709.3	3907.3	4189.5	4511.7	4842.5	5185.9	5497.9	5706.2	5746.3
60°	2724.6	2779.6	2888.1	3098.7	3413.0	3797.3	4239.0	4746.6	5297.5	5765.9	6045.7
62.5°	1747.8	1799.6	1913.6	2096.7	2352.9	2769.4	3243.3	3846.0	4586.3	5325.8	5992.2
65°	898.2	926.5	986.3	1097.1	1296.7	1607.9	2033.0	2634.2	3480.6	4393.0	5356.5
67.5°	569.0	574.5	587.8	603.5	654.6	762.3	960.3	1335.2	2031.5	2983.2	4110.9
70°	492.0	492.0	485.7	483.3	489.6	504.5	535.2	622.4	857.4	1416.1	2371.0
72.5°	450.3	445.6	434.6	425.9	424.4	424.4	430.7	444.0	481.7	576.8	928.1
75°	414.9	401.6	386.6	376.4	372.5	368.6	367.8	370.1	378.0	392.9	443.2
77.5°	371.7	354.4	337.1	326.9	322.2	316.7	312.0	306.5	302.6	307.3	329.3
80°	319.8	300.2	286.8	280.6	275.8	268.0	257.8	248.3	239.7	238.1	251.5
82.5°	257.8	235.0	235.8	238.1	229.5	218.5	207.5	197.3	182.3	174.5	182.3
85°	208.3	196.5	191.0	205.9	193.3	176.8	159.5	141.5	117.9	99.0	107.7
87.5°	80.9	80.9	121.0	186.3	167.4	136.7	117.1	99.8	62.1	47.9	48.7
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°	1844.4	1844.4	1844.4	1844.4	1844.4	1844.4	1844.4	1844.4
2.5°	1847.6	1849.1	1848.4	1847.6	1847.6	1846.8	1847.6	1847.6
5°	1861.7	1865.7	1865.7	1867.2	1867.2	1868.0	1868.8	1868.0
7.5°	1882.9	1890.0	1894.7	1900.2	1901.0	1901.8	1903.4	1901.8
10°	1904.2	1918.3	1928.5	1938.7	1943.5	1945.0	1946.6	1946.6
12.5°	1930.9	1950.5	1968.6	1986.7	1995.3	2000.0	2000.0	2003.2
15°	1974.9	1994.5	2015.8	2040.1	2055.0	2062.9	2065.3	2065.3
17.5°	2037.0	2054.3	2072.3	2095.9	2114.8	2125.0	2127.3	2126.6
20°	2109.3	2125.8	2136.0	2150.9	2167.4	2179.2	2182.4	2182.4
22.5°	2191.8	2201.2	2202.8	2207.5	2220.9	2236.6	2243.7	2245.2
25°	2282.9	2285.3	2279.0	2279.0	2287.7	2302.6	2309.7	2310.5
27.5°	2400.8	2389.0	2373.3	2367.8	2373.3	2390.6	2399.3	2402.4
30°	2547.8	2519.5	2483.3	2463.7	2460.6	2483.3	2499.1	2501.4
32.5°	2716.0	2675.1	2627.2	2587.1	2576.9	2591.0	2609.9	2609.1
35°	2915.6	2866.8	2808.7	2757.6	2734.0	2748.2	2774.9	2778.0
37.5°	3145.8	3082.2	3015.4	2950.9	2914.0	2917.9	2946.2	2955.7
40°	3402.8	3320.3	3236.2	3149.8	3097.1	3086.9	3121.5	3127.0
42.5°	3677.9	3571.8	3465.7	3358.8	3291.2	3275.5	3315.6	3313.2
45°	3971.0	3835.8	3711.7	3593.8	3513.6	3490.0	3523.0	3523.0
47.5°	4286.1	4119.5	3971.8	3838.2	3750.9	3717.2	3748.6	3750.9
50°	4620.1	4443.3	4269.6	4121.1	4016.6	3973.3	4014.2	4020.5
52.5°	4952.5	4780.4	4605.2	4435.4	4308.9	4256.3	4303.4	4323.8
55°	5289.7	5120.7	4953.3	4787.5	4637.4	4575.3	4625.6	4651.6
57.5°	5645.7	5489.3	5329.8	5162.4	5017.8	4921.1	4974.5	5009.1
60°	6063.0	5929.4	5763.6	5578.9	5432.7	5334.5	5365.1	5395.8
62.5°	6393.0	6444.9	6304.2	6090.5	5902.7	5776.9	5806.8	5839.0
65°	6233.5	6765.5	6890.5	6674.4	6414.3	6218.6	6206.0	6222.5
67.5°	5210.3	6243.7	6997.4	7203.3	6985.6	6713.7	6663.4	6687.7
70°	3485.3	4772.6	6102.3	7092.5	7355.7	7250.4	7200.9	7215.8
72.5°	1673.9	2779.6	4140.0	5456.3	6257.9	6625.7	6743.5	6800.9
75°	612.2	1103.4	1995.3	3006.7	3629.9	4202.0	4575.3	4727.8
77.5°	369.4	445.6	637.3	959.5	1086.9	1216.5	1166.2	1191.4
80°	273.5	308.8	349.7	392.9	407.1	407.1	391.4	378.8
82.5°	191.8	214.5	234.2	257.8	264.1	252.3	207.5	165.0
85°	123.4	133.6	142.2	157.2	153.2	146.2	98.2	87.2
87.5°	56.6	64.4	67.6	74.7	71.5	68.4	48.7	40.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)