

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: P269302

Luminaire Tested: **GLEON-AF-05-LED-E1-RW-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269302
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-05-LED-E1-RW-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17407.6 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

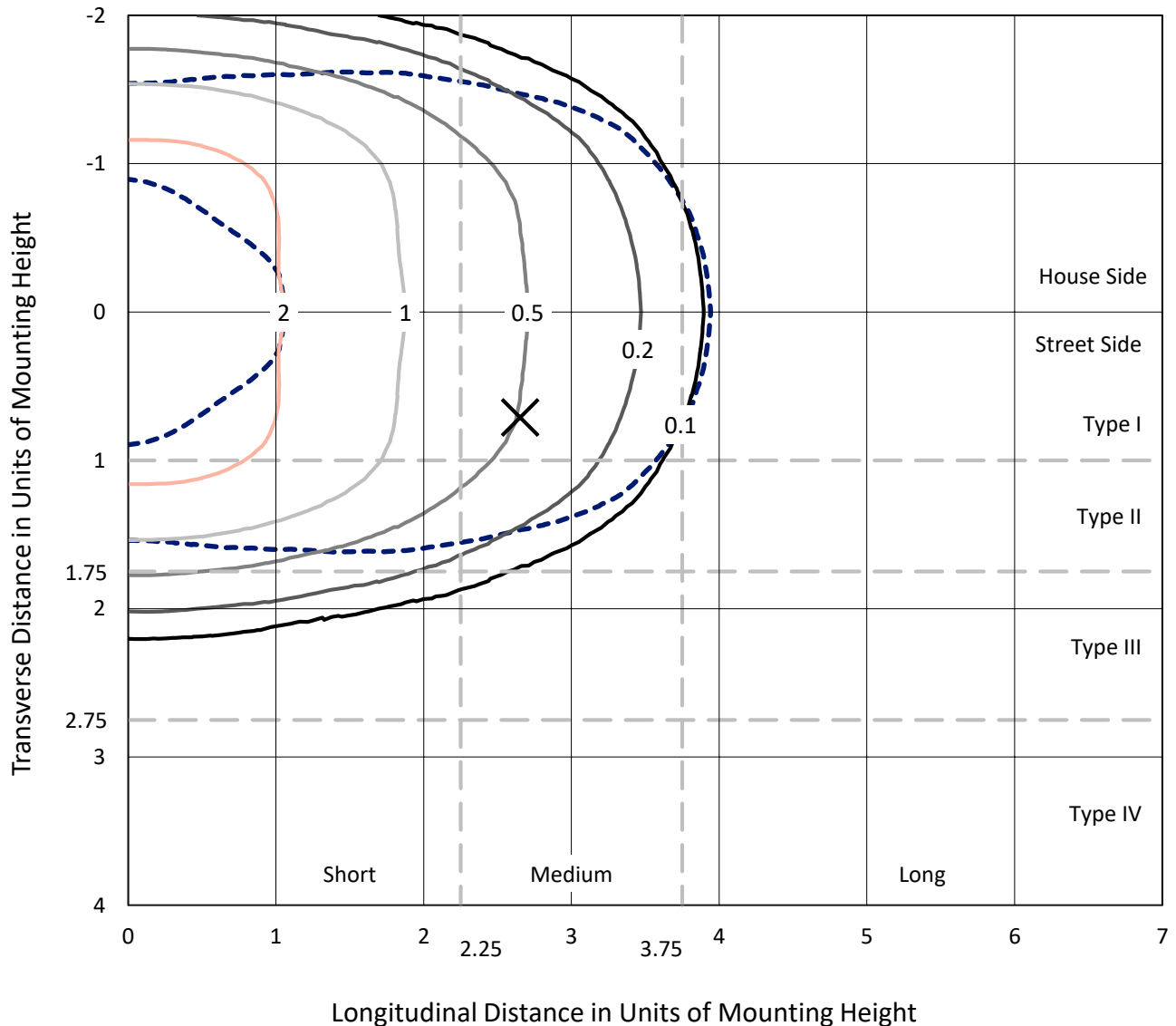
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P269302
 CATALOG NUMBER: GLEON-AF-05-LED-E1-RW-7027-600

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

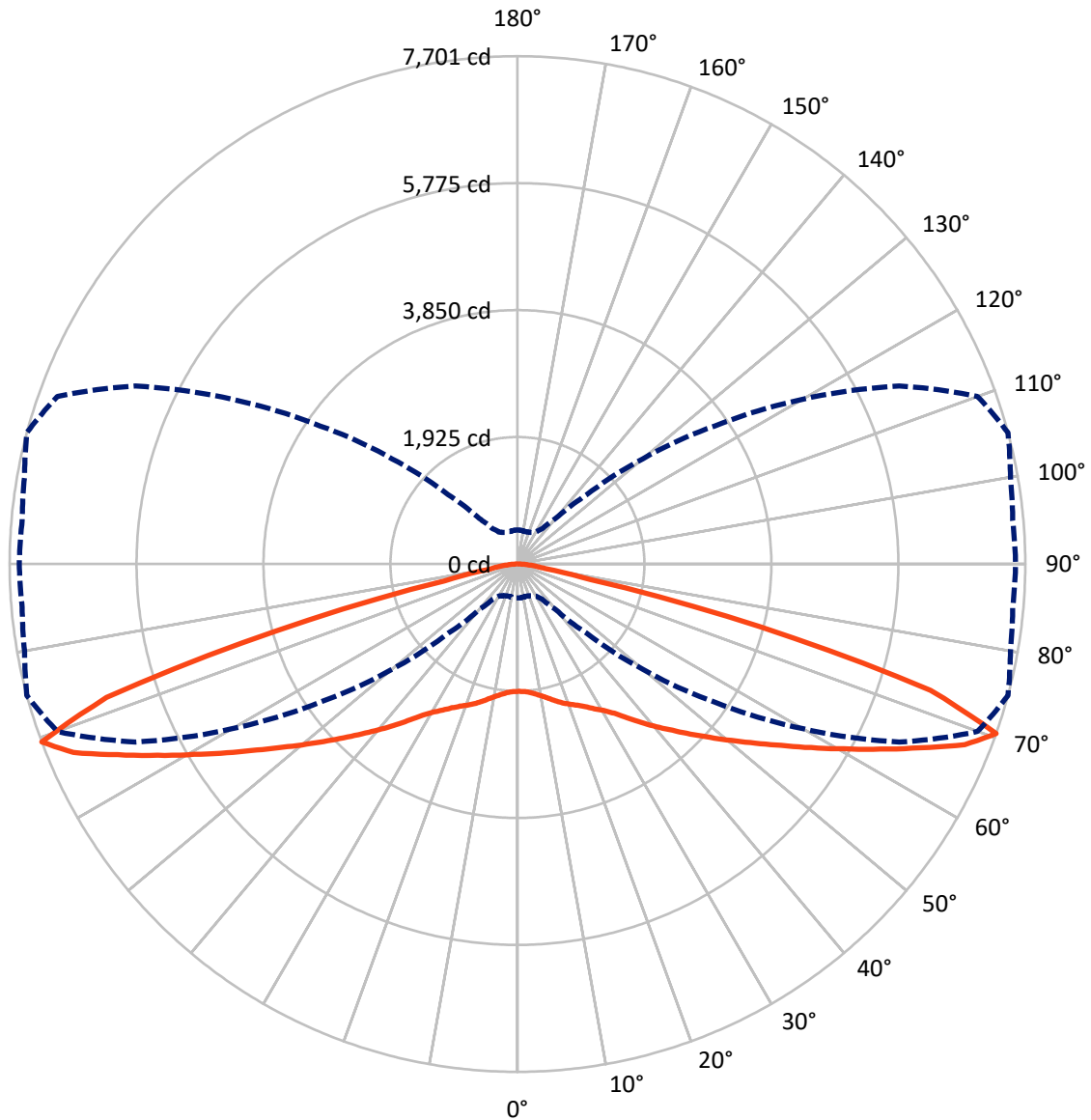


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P269302

CATALOG NUMBER: GLEON-AF-05-LED-E1-RW-7027-600

Luminous Intensity Polar Plot



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

REPORT NUMBER: P269302

CATALOG NUMBER: GLEON-AF-05-LED-E1-RW-7027-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8703.8	0.0	8703.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8703.8	0.0	8703.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	17407.6	0.0	17407.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.2	1.1
10°-20°	575.4	3.3
20°-30°	1083.0	6.2
30°-40°	1917.8	11.0
40°-50°	3207.2	18.4
50°-60°	4469.2	25.7
60°-70°	4144.5	23.8
70°-80°	1651.7	9.5
80°-90°	173.6	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°	17407.6	100.0
0°-180°	17407.6	100.0



REPORT NUMBER: P269302

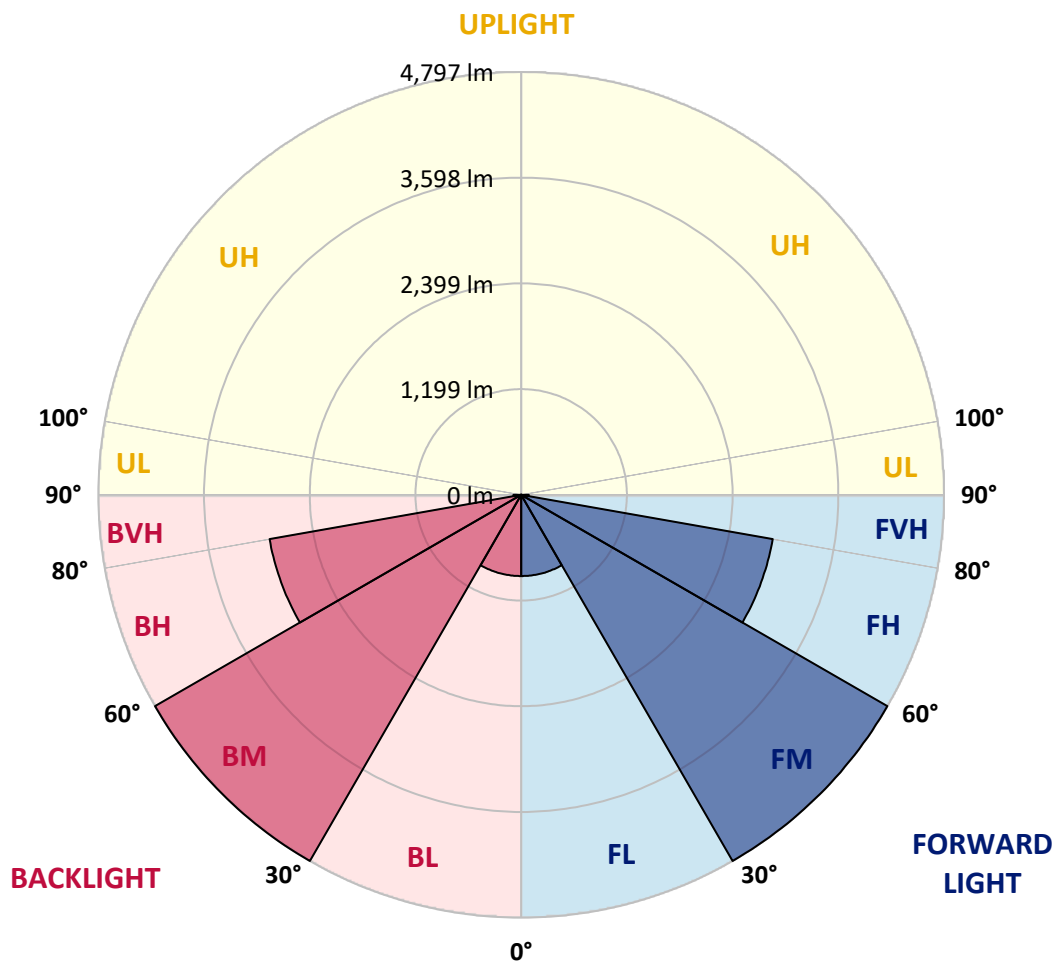
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	921.8	5.3			
FM	(30°-60°)	4797.1	27.6			
FH	(60°-80°)	2898.1	16.6			G2/5000
FVH	(80°-90°)	86.8	0.5			G1/100
BL	(0°-30°)	921.8	5.3	B2/1000		
BM	(30°-60°)	4797.1	27.6	B3/5000		
BH	(60°-80°)	2898.1	16.6	B4/5000		G4/5000
BVH	(80°-90°)	86.8	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





REPORT NUMBER: P269302

CATALOG NUMBER: GLEON-AF-05-LED-E1-RW-7027-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1930.8	1930.8	1930.8	1930.8	1930.8	1930.8	1930.8	1930.8	1930.8	1930.8	1930.8
2.5°	1927.7	1926.0	1927.7	1926.8	1928.4	1928.4	1930.1	1933.4	1933.4	1935.8	1934.9
5°	1908.7	1907.9	1910.3	1912.9	1915.2	1920.1	1925.2	1932.6	1938.4	1942.4	1946.5
7.5°	1871.7	1871.7	1874.9	1880.7	1886.5	1897.2	1908.7	1923.5	1938.4	1950.7	1961.4
10°	1841.3	1842.9	1846.9	1856.8	1866.8	1883.1	1898.7	1920.1	1940.8	1961.4	1977.8
12.5°	1823.1	1825.5	1833.0	1847.9	1864.3	1886.5	1910.3	1937.5	1960.6	1985.3	2001.7
15°	1828.9	1830.6	1841.3	1859.3	1880.7	1908.7	1940.8	1972.9	1999.9	2026.3	2048.6
17.5°	1861.0	1863.4	1875.8	1896.3	1918.6	1951.5	1986.1	2022.3	2056.0	2085.5	2112.8
20°	1918.6	1921.0	1936.7	1958.8	1985.3	2018.9	2053.4	2091.3	2129.3	2160.5	2190.8
22.5°	1999.9	2004.1	2018.9	2041.2	2070.8	2107.0	2148.0	2188.5	2224.7	2253.4	2280.5
25°	2107.0	2116.0	2130.1	2154.7	2185.9	2218.9	2263.3	2304.4	2338.9	2366.1	2385.9
27.5°	2258.3	2270.6	2281.3	2305.2	2335.7	2366.9	2411.4	2447.5	2480.5	2506.8	2521.6
30°	2459.1	2471.4	2482.1	2505.2	2533.1	2562.8	2604.6	2636.7	2657.4	2677.9	2677.0
32.5°	2702.6	2715.8	2719.9	2744.5	2773.3	2805.4	2843.2	2861.5	2877.8	2880.3	2865.6
35°	2974.9	2981.6	2998.0	3030.9	3063.8	3090.1	3126.3	3135.4	3135.4	3123.0	3090.1
37.5°	3273.6	3277.6	3300.7	3337.7	3371.5	3398.6	3423.4	3441.3	3432.3	3406.1	3350.9
40°	3601.0	3608.4	3641.3	3674.2	3712.1	3737.6	3763.9	3767.2	3758.1	3719.5	3644.7
42.5°	3913.6	3920.3	3953.1	4005.0	4054.3	4089.8	4114.3	4119.3	4090.5	4055.2	3962.2
45°	4182.7	4199.9	4242.8	4303.6	4375.1	4425.4	4459.0	4473.1	4447.6	4401.5	4293.7
47.5°	4395.8	4413.1	4473.9	4546.3	4635.2	4716.6	4772.5	4802.2	4795.6	4761.0	4643.3
50°	4552.0	4568.5	4634.4	4723.2	4826.9	4928.0	5023.5	5094.2	5118.9	5103.4	4995.6
52.5°	4570.1	4597.3	4674.6	4794.0	4928.9	5067.1	5202.9	5322.9	5404.5	5416.7	5336.9
55°	4317.7	4344.7	4451.7	4628.5	4829.3	5054.8	5272.0	5474.4	5634.8	5717.1	5675.0
57.5°	3721.9	3770.5	3883.3	4090.5	4385.9	4723.2	5069.6	5429.0	5755.7	5973.6	6015.7
60°	2852.4	2909.9	3023.4	3244.0	3573.1	3975.3	4437.6	4969.2	5545.9	6036.3	6329.1
62.5°	1829.7	1884.0	2003.3	2195.0	2463.2	2899.2	3395.4	4026.4	4801.4	5575.5	6273.1
65°	940.3	970.0	1032.5	1148.6	1357.5	1683.2	2128.4	2757.7	3643.7	4599.0	5607.6
67.5°	595.7	601.3	615.3	631.9	685.2	798.1	1005.4	1397.9	2126.6	3123.0	4303.6
70°	515.0	515.0	508.4	505.9	512.6	528.2	560.3	651.6	897.5	1482.6	2482.1
72.5°	471.4	466.5	454.9	445.9	444.2	444.2	450.9	464.9	504.3	603.9	971.6
75°	434.4	420.3	404.7	394.0	390.0	385.8	385.1	387.4	395.8	411.3	464.1
77.5°	389.1	371.0	352.9	342.3	337.4	331.6	326.7	320.9	316.7	321.7	344.7
80°	334.9	314.2	300.4	293.7	288.7	280.5	269.9	260.0	250.9	249.3	263.3
82.5°	269.9	246.0	246.9	249.3	240.2	228.7	217.2	206.5	190.9	182.6	190.9
85°	218.0	205.7	200.0	215.6	202.4	185.1	167.1	148.1	123.3	103.7	112.6
87.5°	84.7	84.7	126.8	195.0	175.2	143.2	122.6	104.6	64.9	50.1	51.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P269302

CATALOG NUMBER: GLEON-AF-05-LED-E1-RW-7027-600

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1930.8	1930.8	1930.8	1930.8	1930.8	1930.8	1930.8	1930.8
2.5°	1934.2	1935.8	1934.9	1934.2	1934.2	1933.4	1934.2	1934.2
5°	1949.1	1953.2	1953.2	1954.7	1954.7	1955.6	1956.4	1955.6
7.5°	1971.2	1978.6	1983.5	1989.3	1990.1	1991.0	1992.6	1991.0
10°	1993.3	2008.3	2018.9	2029.6	2034.7	2036.2	2037.8	2037.8
12.5°	2021.4	2041.9	2060.9	2079.8	2088.9	2093.8	2093.8	2097.2
15°	2067.4	2088.0	2110.3	2135.8	2151.4	2159.6	2162.1	2162.1
17.5°	2132.4	2150.5	2169.4	2194.2	2214.0	2224.7	2227.1	2226.3
20°	2208.2	2225.5	2236.2	2251.7	2268.9	2281.3	2284.7	2284.7
22.5°	2294.5	2304.4	2306.0	2311.0	2325.0	2341.4	2348.9	2350.4
25°	2390.0	2392.5	2385.9	2385.9	2394.9	2410.5	2418.0	2418.7
27.5°	2513.4	2501.1	2484.6	2478.9	2484.6	2502.7	2511.8	2515.1
30°	2667.2	2637.7	2599.8	2579.3	2575.9	2599.8	2616.3	2618.6
32.5°	2843.2	2800.5	2750.3	2708.4	2697.7	2712.5	2732.3	2731.3
35°	3052.3	3001.2	2940.3	2887.0	2862.2	2877.0	2904.9	2908.4
37.5°	3293.4	3226.7	3156.7	3089.4	3050.6	3054.7	3084.3	3094.2
40°	3562.4	3475.9	3387.9	3297.4	3242.3	3231.7	3267.9	3273.6
42.5°	3850.2	3739.3	3628.2	3516.2	3445.4	3429.1	3471.1	3468.5
45°	4157.1	4015.7	3885.7	3762.2	3678.3	3653.6	3688.3	3688.3
47.5°	4487.0	4312.7	4158.0	4018.1	3926.9	3891.4	3924.3	3926.9
50°	4836.7	4651.7	4469.7	4314.3	4204.8	4159.6	4202.5	4209.0
52.5°	5184.7	5004.5	4821.2	4643.3	4510.8	4455.9	4505.2	4526.6
55°	5537.7	5360.7	5185.6	5012.0	4854.8	4789.9	4842.5	4869.6
57.5°	5910.4	5746.6	5579.6	5404.5	5253.0	5151.8	5207.7	5243.9
60°	6347.2	6207.4	6033.7	5840.4	5687.3	5584.6	5616.7	5648.7
62.5°	6692.7	6747.1	6599.8	6376.0	6179.4	6047.7	6079.0	6112.7
65°	6525.7	7082.7	7213.5	6987.2	6715.0	6510.0	6496.9	6514.1
67.5°	5454.6	6536.4	7325.4	7541.0	7313.1	7028.3	6975.8	7001.3
70°	3648.7	4996.4	6388.3	7425.0	7700.6	7590.3	7538.4	7554.1
72.5°	1752.4	2909.9	4334.1	5712.1	6551.2	6936.4	7059.7	7119.7
75°	640.9	1155.1	2088.9	3147.8	3800.1	4399.0	4789.9	4949.4
77.5°	386.7	466.5	667.3	1004.6	1137.9	1273.5	1220.8	1247.2
80°	286.3	323.3	366.1	411.3	426.2	426.2	409.6	396.5
82.5°	200.7	224.5	245.1	269.9	276.4	264.1	217.2	172.7
85°	129.1	139.9	148.8	164.5	160.4	153.0	102.9	91.3
87.5°	59.3	67.5	70.7	78.2	74.9	71.5	51.1	42.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)