

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: P193391

Luminaire Tested: **GLEON-AF-03-LED-E1-5NQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193391
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-E1-5NQ-8030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15297 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

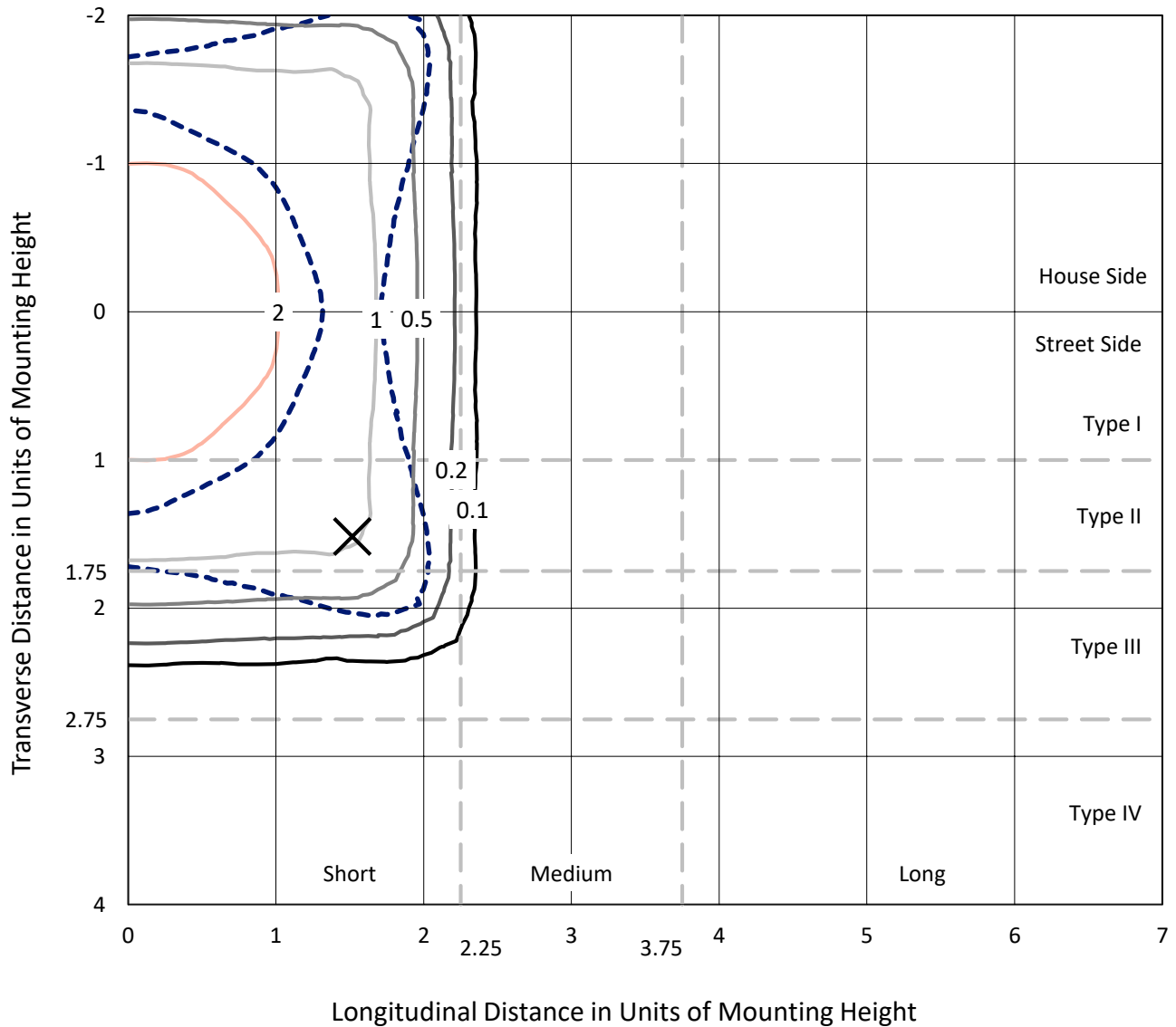
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P193391
 CATALOG NUMBER: GLEON-AF-03-LED-E1-5NQ-8030

Iso-Footcandle Lines of Horizontal Illumination

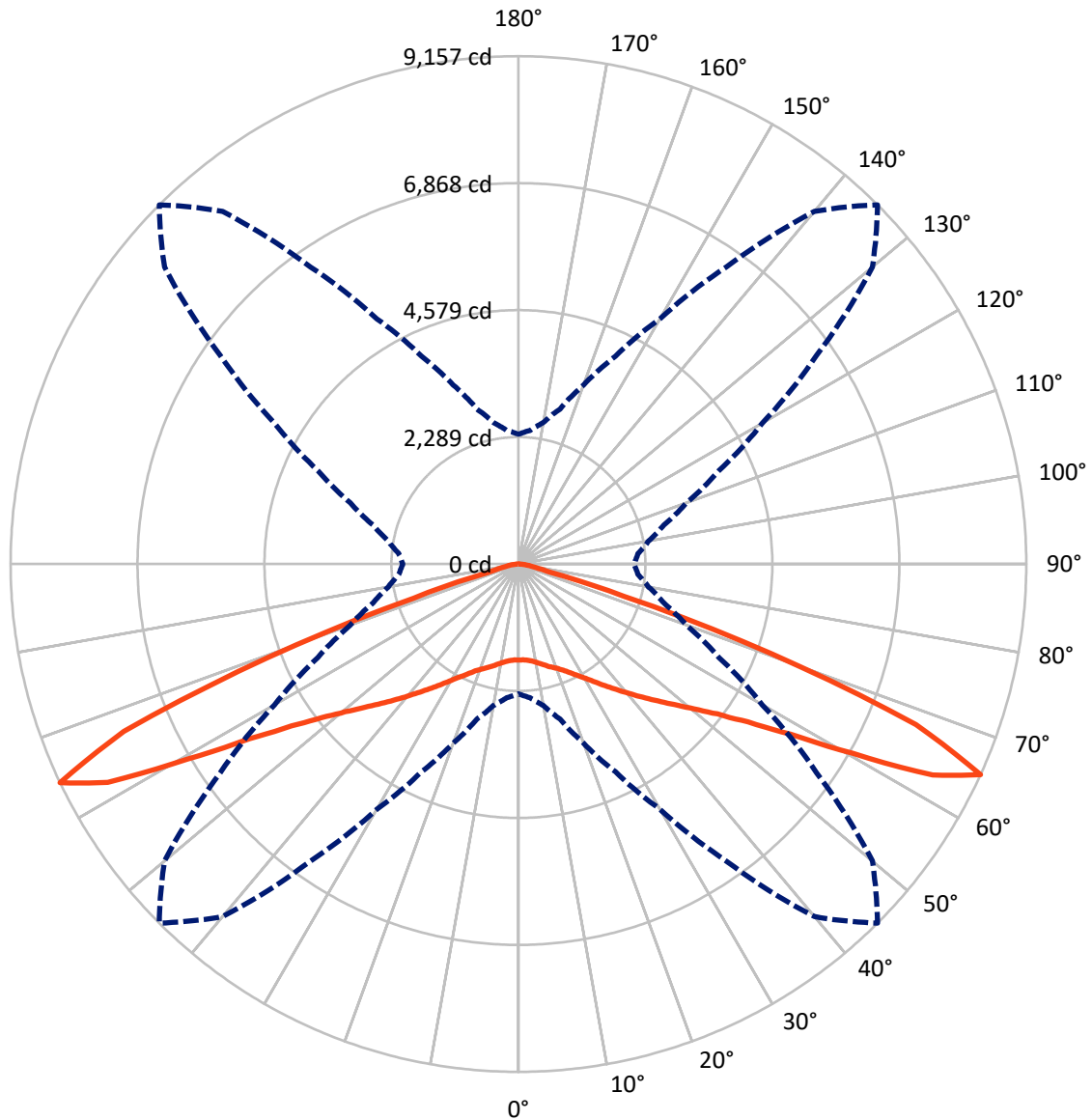
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P193391
CATALOG NUMBER: GLEON-AF-03-LED-E1-5NQ-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P193391

CATALOG NUMBER: GLEON-AF-03-LED-E1-5NQ-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7648.5	0.0	7648.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7648.5	0.0	7648.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15297.0	0.0	15297.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.7	1.1
10°-20°	541.1	3.5
20°-30°	1011.7	6.6
30°-40°	1711.0	11.2
40°-50°	2797.7	18.3
50°-60°	4448.8	29.1
60°-70°	4021.5	26.3
70°-80°	508.9	3.3
80°-90°	87.6	0.6
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°	15297.0	100.0
0°-180°	15297.0	100.0



REPORT NUMBER: P193391

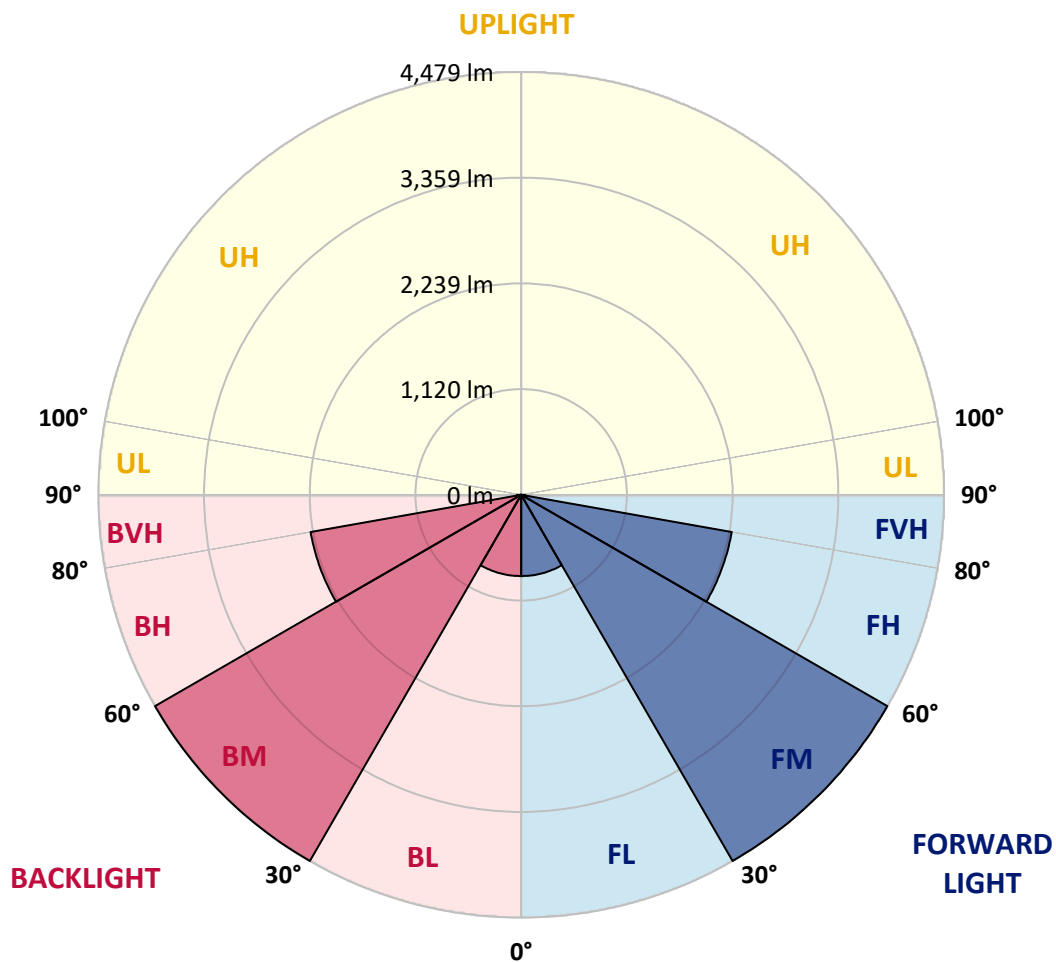
CATALOG NUMBER: GLEON-AF-03-LED-E1-5NQ-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	860.7	5.6			
FM	(30°-60°)	4478.8	29.3			
FH	(60°-80°)	2265.2	14.8			G2/5000
FVH	(80°-90°)	43.8	0.3			G1/100
BL	(0°-30°)	860.7	5.6	B2/1000		
BM	(30°-60°)	4478.8	29.3	B3/5000		
BH	(60°-80°)	2265.2	14.8	B3/2500		G2/5000
BVH	(80°-90°)	43.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





REPORT NUMBER: P193391
 CATALOG NUMBER: GLEON-AF-03-LED-E1-5NQ-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9
2.5°	1732.3	1733.7	1735.2	1733.7	1735.2	1733.0	1731.6	1733.7	1731.6	1729.4	1730.9
5°	1747.3	1748.1	1748.1	1745.9	1748.1	1746.6	1744.5	1747.3	1745.2	1743.0	1744.5
7.5°	1772.4	1775.3	1773.1	1771.0	1772.4	1771.0	1769.6	1770.3	1769.6	1767.4	1768.1
10°	1806.1	1808.2	1806.8	1806.1	1807.5	1806.8	1805.4	1804.7	1805.4	1803.2	1803.2
12.5°	1846.9	1846.2	1845.5	1846.2	1848.4	1848.4	1847.6	1848.4	1849.8	1850.5	1849.1
15°	1887.0	1888.5	1888.5	1888.5	1892.8	1896.4	1898.5	1899.9	1902.8	1903.5	1900.7
17.5°	1937.2	1937.2	1936.5	1937.2	1941.5	1947.2	1949.4	1952.2	1955.1	1957.3	1953.7
20°	1993.1	1994.5	1994.5	1995.9	2001.7	2008.1	2008.1	2009.6	2008.1	2009.6	2007.4
22.5°	2061.1	2065.4	2065.4	2066.1	2071.9	2079.8	2077.6	2079.8	2076.2	2079.0	2076.2
25°	2150.0	2156.4	2155.0	2155.0	2159.3	2164.3	2165.0	2169.3	2168.6	2172.2	2170.0
27.5°	2250.3	2260.3	2263.2	2262.4	2265.3	2270.3	2271.8	2276.8	2273.9	2276.8	2275.3
30°	2370.6	2374.9	2380.7	2382.8	2386.4	2391.4	2391.4	2392.1	2388.5	2392.8	2395.0
32.5°	2495.3	2503.2	2508.9	2521.8	2528.2	2531.8	2531.1	2532.5	2529.0	2534.7	2539.0
35°	2660.1	2665.8	2675.1	2685.1	2693.7	2693.0	2690.9	2691.6	2691.6	2696.6	2700.9
37.5°	2858.5	2859.9	2872.1	2886.4	2890.7	2886.4	2873.5	2870.7	2864.2	2870.7	2877.8
40°	3068.4	3073.4	3097.8	3107.1	3109.3	3101.4	3082.7	3072.0	3057.7	3065.5	3075.6
42.5°	3288.4	3298.4	3320.6	3337.1	3344.2	3339.2	3313.4	3297.0	3278.3	3282.6	3292.7
45°	3531.9	3544.1	3575.6	3591.4	3605.0	3597.1	3572.1	3547.0	3517.6	3519.8	3535.5
47.5°	3804.2	3816.4	3857.2	3883.7	3890.9	3889.4	3861.5	3827.1	3787.0	3785.5	3799.2
50°	4109.4	4121.5	4172.4	4213.2	4234.0	4231.9	4198.9	4150.2	4101.5	4102.2	4119.4
52.5°	4407.4	4422.4	4475.5	4545.7	4586.5	4615.9	4595.8	4550.0	4490.5	4491.9	4507.7
55°	4686.8	4711.9	4772.8	4868.1	4944.0	5026.4	5050.0	5048.6	5012.8	5022.8	5038.6
57.5°	4822.2	4859.5	4953.3	5103.8	5258.5	5426.1	5568.0	5674.0	5719.2	5787.2	5771.5
60°	4565.7	4625.2	4763.5	4984.8	5290.7	5640.4	6015.0	6381.1	6693.5	6929.2	6793.8
62.5°	3738.3	3815.6	3983.3	4267.0	4729.8	5289.3	6006.4	6871.9	7814.7	8383.5	7977.3
65°	2339.1	2419.3	2589.8	2893.6	3435.2	4130.9	5103.8	6538.0	8299.7	9157.2	8330.5
67.5°	912.0	955.7	1048.1	1242.3	1649.2	2268.2	3244.7	4872.4	6979.3	7730.9	6849.7
70°	457.1	461.4	478.6	514.4	601.8	781.6	1189.3	2258.9	4002.6	4834.4	3858.6
72.5°	330.3	331.0	339.6	355.3	383.3	423.4	500.8	691.3	1301.7	1989.5	1220.1
75°	252.9	255.8	260.8	269.4	284.4	304.5	332.4	398.3	493.6	572.4	481.4
77.5°	194.9	200.6	204.2	212.1	221.4	235.0	242.9	267.9	311.6	328.1	323.1
80°	148.3	153.3	161.2	167.6	174.1	180.5	177.7	189.1	212.1	225.7	218.5
82.5°	94.6	100.3	123.2	129.0	131.8	136.1	131.1	131.8	141.9	150.4	141.9
85°	60.9	64.5	78.1	85.3	86.0	88.8	86.7	81.7	81.7	74.5	83.8
87.5°	27.9	28.7	35.1	41.6	43.0	38.7	38.0	36.5	29.4	27.9	30.1
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: P193391

CATALOG NUMBER: GLEON-AF-03-LED-E1-5NQ-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9	1730.9
2.5°	1730.1	1731.6	1732.3	1734.4	1735.2	1735.2	1735.9	1737.3
5°	1743.8	1745.9	1746.6	1749.5	1750.2	1749.5	1750.9	1751.6
7.5°	1768.1	1771.7	1773.1	1776.0	1773.8	1776.7	1777.4	1777.4
10°	1803.9	1807.5	1808.2	1811.1	1809.7	1811.1	1811.1	1809.7
12.5°	1851.2	1851.9	1849.8	1851.9	1849.1	1850.5	1848.4	1846.9
15°	1903.5	1901.4	1896.4	1896.4	1892.1	1892.8	1892.1	1891.3
17.5°	1954.4	1950.1	1946.5	1945.1	1941.5	1940.8	1938.6	1938.6
20°	2010.3	2008.1	2006.0	2003.1	1999.5	1995.9	1995.2	1996.7
22.5°	2077.6	2076.9	2076.9	2075.5	2070.4	2066.9	2064.7	2064.7
25°	2167.9	2161.4	2161.4	2160.7	2158.6	2156.4	2152.1	2154.3
27.5°	2269.6	2266.0	2268.9	2268.2	2266.0	2266.0	2263.2	2263.2
30°	2395.0	2393.5	2397.8	2394.3	2387.1	2386.4	2383.5	2379.9
32.5°	2539.7	2538.3	2544.7	2540.4	2529.0	2522.5	2516.8	2513.9
35°	2700.9	2701.6	2709.5	2706.6	2693.7	2689.4	2679.4	2678.0
37.5°	2877.1	2888.6	2902.2	2905.1	2894.3	2891.5	2880.7	2875.0
40°	3084.2	3099.2	3120.0	3125.0	3113.5	3111.4	3096.4	3088.5
42.5°	3304.8	3330.6	3356.4	3360.7	3349.3	3337.8	3323.5	3317.7
45°	3551.3	3582.1	3615.8	3624.4	3607.2	3593.5	3574.9	3574.9
47.5°	3827.8	3866.5	3904.5	3928.1	3912.4	3898.0	3875.8	3861.5
50°	4154.5	4207.5	4257.0	4281.3	4256.2	4229.0	4190.3	4177.4
52.5°	4564.3	4621.6	4664.6	4651.7	4613.0	4575.0	4532.8	4515.6
55°	5087.3	5106.6	5106.6	5057.9	4980.5	4916.8	4850.1	4827.9
57.5°	5741.4	5666.9	5552.2	5406.8	5224.1	5065.1	4957.6	4906.7
60°	6510.1	6151.9	5747.1	5349.5	5022.8	4753.4	4593.7	4520.6
62.5°	7022.3	6085.2	5274.3	4635.9	4166.0	3841.4	3620.8	3534.8
65°	6563.1	5075.1	3989.0	3225.3	2713.1	2382.8	2164.3	2084.1
67.5°	4807.2	3180.2	2124.2	1522.4	1115.5	889.8	800.2	763.0
70°	2157.8	1119.8	686.3	535.9	462.1	424.1	407.6	401.9
72.5°	650.5	470.7	396.9	358.2	328.8	310.2	296.6	295.2
75°	392.6	326.7	290.1	267.2	248.6	233.6	226.4	224.2
77.5°	274.4	240.0	222.8	206.3	192.0	180.5	174.1	169.1
80°	192.7	176.2	168.4	159.0	149.7	139.0	129.7	125.4
82.5°	129.0	125.4	125.4	119.6	111.8	101.7	83.1	78.8
85°	83.1	82.4	83.8	81.7	75.9	65.2	53.7	50.9
87.5°	38.7	39.4	43.7	43.0	41.6	34.4	27.2	25.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)