

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: P269286

Luminaire Tested: **GLEON-AF-05-LED-E1-5NQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269286
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-05-LED-E1-5NQ-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17566.5 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

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

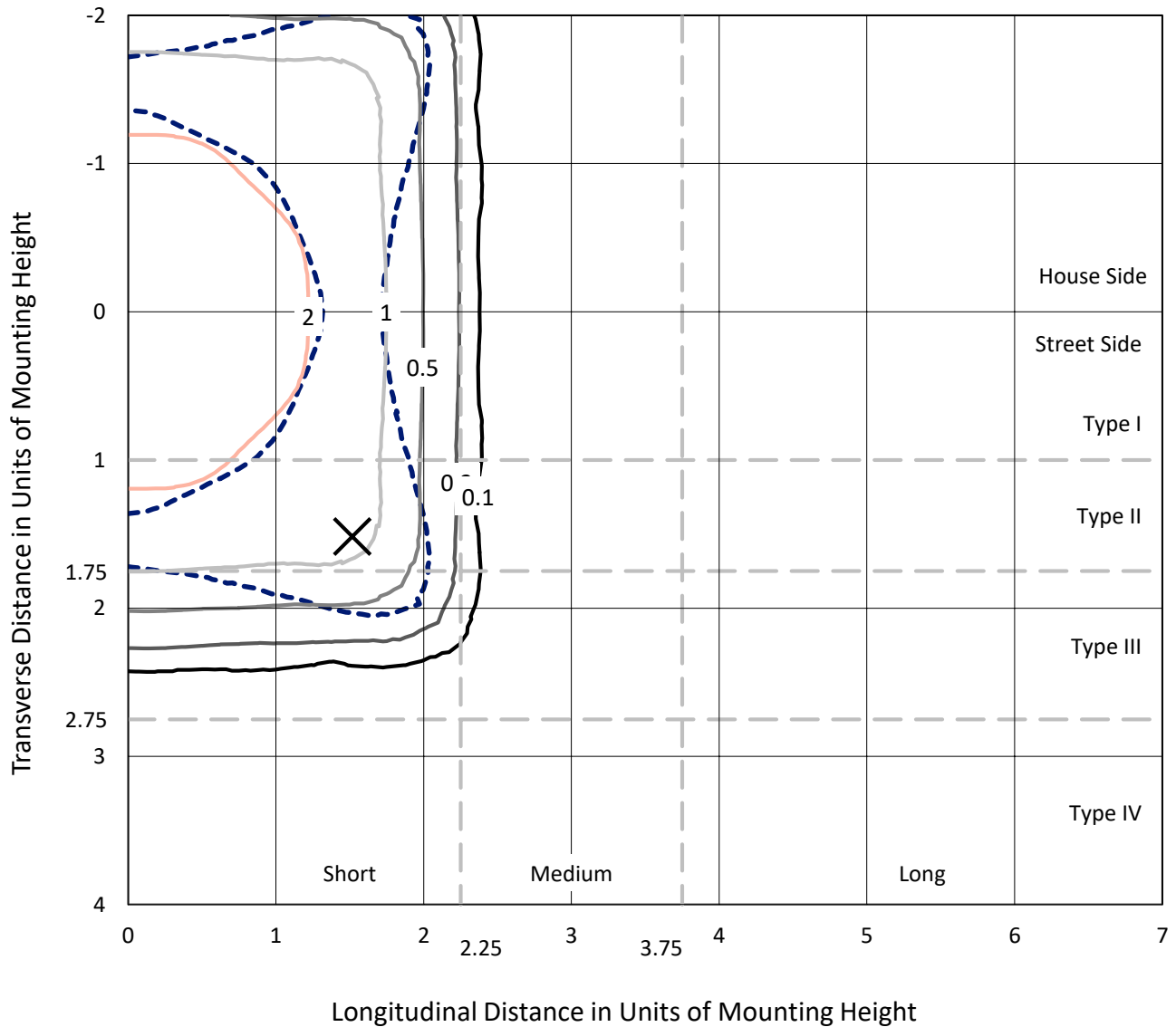


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

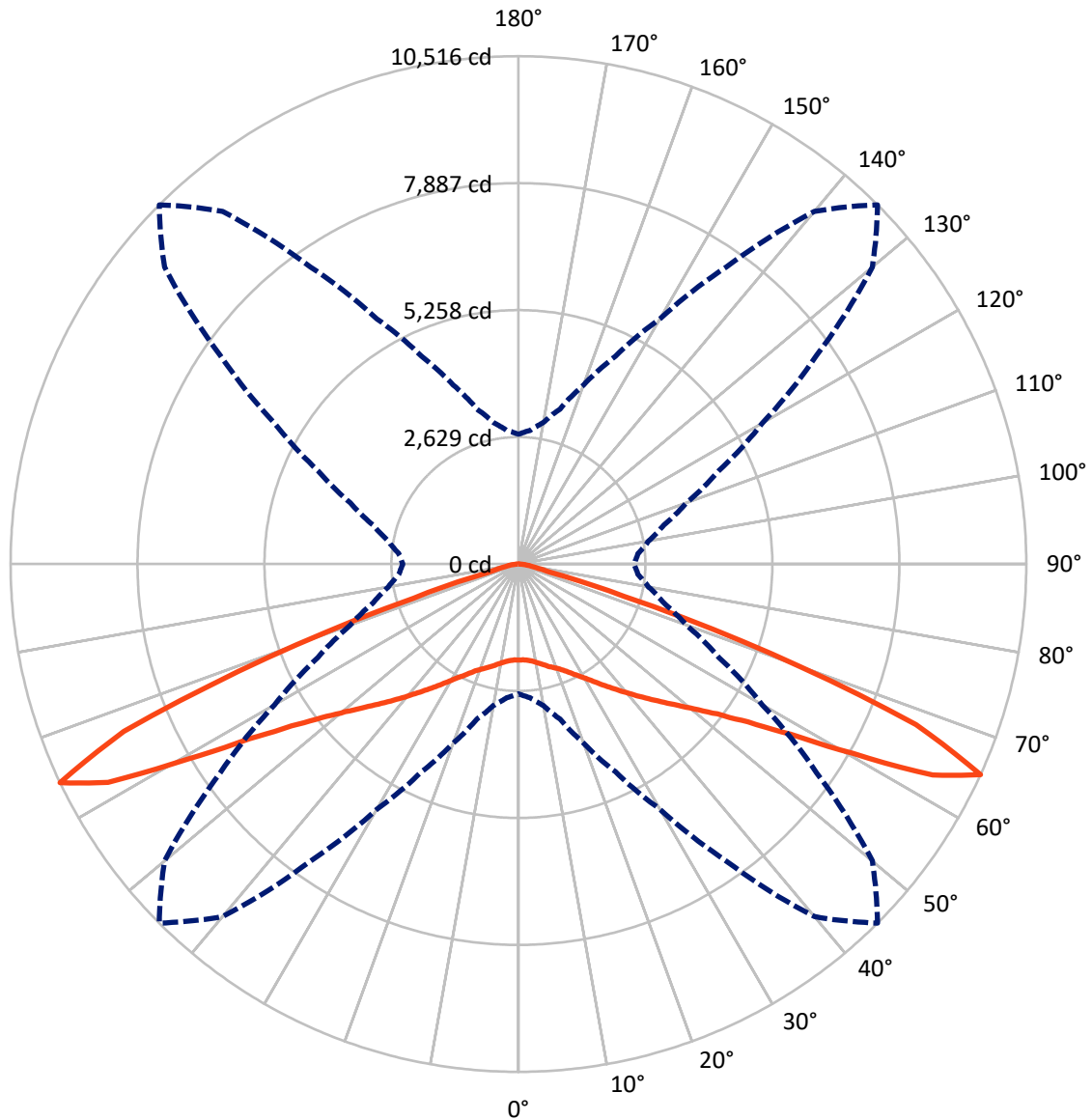


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8783.3	0.0	8783.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8783.3	0.0	8783.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	17566.5	0.0	17566.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.7	1.1
10°-20°	621.3	3.5
20°-30°	1161.8	6.6
30°-40°	1964.9	11.2
40°-50°	3212.8	18.3
50°-60°	5108.9	29.1
60°-70°	4618.1	26.3
70°-80°	584.4	3.3
80°-90°	100.5	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°	17566.5	100.0
0°-180°	17566.5	100.0



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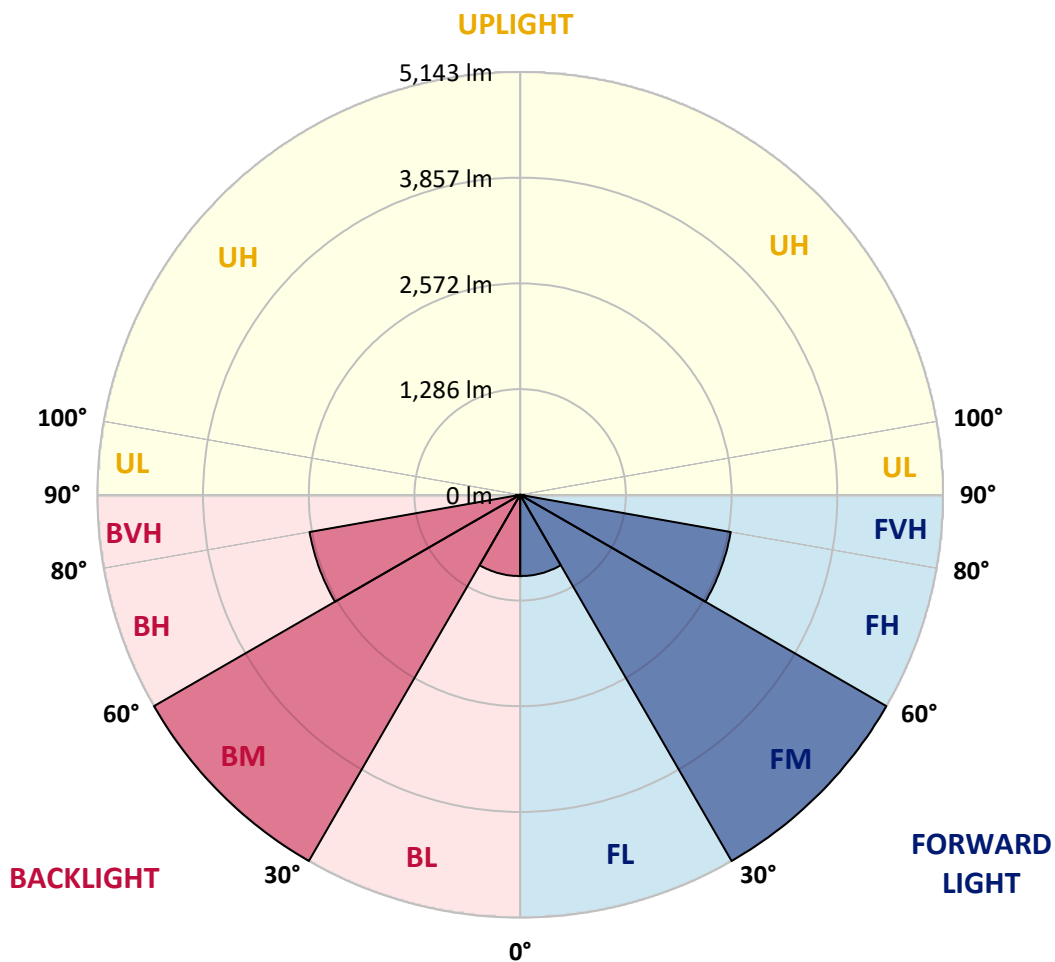
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	988.4	5.6			
FM	(30°-60°)	5143.3	29.3			
FH	(60°-80°)	2601.3	14.8			G2/5000
FVH	(80°-90°)	50.3	0.3			G1/100
BL	(0°-30°)	988.4	5.6	B2/1000		
BM	(30°-60°)	5143.3	29.3	B4/8500		
BH	(60°-80°)	2601.3	14.8	B4/5000		G2/5000
BVH	(80°-90°)	50.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1987.7	1987.7	1987.7	1987.7	1987.7	1987.7	1987.7	1987.7	1987.7	1987.7	1987.7
2.5°	1989.2	1991.0	1992.6	1991.0	1992.6	1990.1	1988.5	1991.0	1988.5	1986.1	1987.7
5°	2006.5	2007.4	2007.4	2004.9	2007.4	2005.7	2003.3	2006.5	2004.1	2001.7	2003.3
7.5°	2035.4	2038.7	2036.2	2033.8	2035.4	2033.8	2032.1	2033.0	2032.1	2029.6	2030.4
10°	2074.0	2076.5	2074.8	2074.0	2075.8	2074.8	2073.2	2072.4	2073.2	2070.8	2070.8
12.5°	2121.0	2120.1	2119.3	2120.1	2122.5	2122.5	2121.7	2122.5	2124.2	2125.1	2123.5
15°	2167.0	2168.7	2168.7	2168.7	2173.5	2177.8	2180.1	2181.9	2185.0	2185.9	2182.6
17.5°	2224.7	2224.7	2223.8	2224.7	2229.6	2236.2	2238.5	2241.9	2245.1	2247.6	2243.5
20°	2288.8	2290.4	2290.4	2292.0	2298.7	2306.0	2306.0	2307.7	2306.0	2307.7	2305.2
22.5°	2366.9	2371.9	2371.9	2372.8	2379.3	2388.4	2385.9	2388.4	2384.2	2387.4	2384.2
25°	2468.9	2476.4	2474.7	2474.7	2479.6	2485.4	2486.1	2491.2	2490.3	2494.5	2492.0
27.5°	2584.2	2595.7	2598.9	2598.1	2601.4	2607.2	2608.8	2614.5	2611.3	2614.5	2612.9
30°	2722.4	2727.3	2733.8	2736.3	2740.5	2746.2	2746.2	2747.0	2743.0	2747.8	2750.3
32.5°	2865.6	2874.5	2881.1	2896.0	2903.3	2907.5	2906.6	2908.3	2904.2	2910.8	2915.7
35°	3054.7	3061.3	3072.1	3083.5	3093.5	3092.5	3090.1	3090.9	3090.9	3096.6	3101.6
37.5°	3282.5	3284.3	3298.2	3314.7	3319.6	3314.7	3299.8	3296.6	3289.2	3296.6	3304.9
40°	3523.6	3529.4	3557.4	3568.1	3570.6	3561.5	3540.1	3527.7	3511.4	3520.4	3531.9
42.5°	3776.3	3787.8	3813.2	3832.2	3840.4	3834.7	3805.0	3786.0	3764.6	3769.6	3781.1
45°	4055.9	4070.0	4106.2	4124.3	4139.8	4130.9	4102.0	4073.3	4039.5	4042.0	4060.1
47.5°	4368.5	4382.7	4429.5	4459.9	4468.1	4466.6	4434.5	4394.9	4348.9	4347.2	4362.8
50°	4719.1	4733.0	4791.5	4838.4	4862.3	4859.7	4821.9	4766.0	4710.1	4710.8	4730.6
52.5°	5061.3	5078.6	5139.5	5220.1	5267.0	5300.7	5277.7	5225.0	5156.7	5158.3	5176.6
55°	5382.1	5411.0	5480.9	5590.3	5677.5	5772.1	5799.3	5797.7	5756.5	5767.9	5786.2
57.5°	5537.6	5580.5	5688.2	5861.0	6038.6	6231.3	6394.0	6515.9	6567.7	6645.8	6627.8
60°	5243.1	5311.4	5470.1	5724.4	6075.6	6477.1	6907.4	7327.8	7686.5	7957.2	7801.8
62.5°	4292.9	4381.8	4574.3	4900.1	5431.5	6074.1	6897.5	7891.4	8974.1	9627.3	9160.8
65°	2686.1	2778.3	2974.1	3322.9	3944.8	4743.7	5861.0	7508.0	9531.0	10515.9	9566.5
67.5°	1047.3	1097.5	1203.5	1426.6	1893.8	2604.6	3726.1	5595.3	8014.9	8877.9	7865.9
70°	524.9	529.8	549.6	590.7	691.1	897.5	1365.8	2593.9	4596.4	5551.6	4431.1
72.5°	379.3	380.2	390.0	408.1	440.2	486.3	575.0	793.9	1494.9	2284.7	1401.0
75°	290.4	293.7	299.4	309.3	326.7	349.6	381.7	457.4	566.8	657.3	552.8
77.5°	223.8	230.3	234.5	243.5	254.2	269.9	279.0	307.7	357.9	376.7	371.0
80°	170.3	176.1	185.1	192.4	200.0	207.2	204.1	217.2	243.5	259.2	250.9
82.5°	108.5	115.3	141.6	148.1	151.4	156.3	150.6	151.4	163.0	172.7	163.0
85°	69.9	74.0	89.7	97.8	98.8	102.0	99.5	93.9	93.9	85.6	96.3
87.5°	32.1	32.9	40.3	47.7	49.3	44.5	43.6	42.0	33.7	32.1	34.6
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°	1987.7	1987.7	1987.7	1987.7	1987.7	1987.7	1987.7	1987.7
2.5°	1986.8	1988.5	1989.2	1991.8	1992.6	1992.6	1993.3	1995.0
5°	2002.5	2004.9	2005.7	2009.1	2009.9	2009.1	2010.6	2011.6
7.5°	2030.4	2034.5	2036.2	2039.5	2037.0	2040.3	2041.2	2041.2
10°	2071.6	2075.8	2076.5	2079.8	2078.1	2079.8	2079.8	2078.1
12.5°	2125.8	2126.6	2124.2	2126.6	2123.5	2125.1	2122.5	2121.0
15°	2185.9	2183.5	2177.8	2177.8	2172.8	2173.5	2172.8	2171.9
17.5°	2244.3	2239.5	2235.3	2233.6	2229.6	2228.8	2226.3	2226.3
20°	2308.6	2306.0	2303.6	2300.3	2296.2	2292.0	2291.2	2293.0
22.5°	2385.9	2385.0	2385.0	2383.5	2377.6	2373.5	2371.0	2371.0
25°	2489.6	2482.0	2482.0	2481.3	2478.9	2476.4	2471.3	2473.9
27.5°	2606.3	2602.2	2605.5	2604.6	2602.2	2602.2	2598.9	2598.9
30°	2750.3	2748.6	2753.7	2749.5	2741.3	2740.5	2737.1	2733.1
32.5°	2916.4	2914.9	2922.2	2917.3	2904.2	2896.8	2890.1	2887.0
35°	3101.6	3102.4	3111.5	3108.1	3093.5	3088.5	3077.0	3075.3
37.5°	3304.0	3317.3	3332.8	3336.0	3323.8	3320.4	3308.1	3301.5
40°	3541.7	3559.1	3582.9	3588.6	3575.6	3573.0	3555.8	3546.7
42.5°	3795.2	3824.8	3854.4	3859.3	3846.2	3833.0	3816.5	3810.0
45°	4078.1	4113.6	4152.2	4162.0	4142.4	4126.8	4105.3	4105.3
47.5°	4395.8	4440.1	4483.8	4510.8	4492.9	4476.3	4450.8	4434.5
50°	4770.9	4831.8	4888.5	4916.6	4887.7	4856.4	4812.0	4797.2
52.5°	5241.5	5307.2	5356.7	5341.9	5297.5	5253.7	5205.3	5185.6
55°	5842.0	5864.2	5864.2	5808.4	5719.5	5646.2	5569.8	5544.2
57.5°	6593.2	6507.6	6376.0	6208.9	5999.2	5816.5	5693.2	5634.8
60°	7476.0	7064.6	6599.8	6143.1	5767.9	5458.7	5275.1	5191.2
62.5°	8064.2	6988.1	6056.8	5323.7	4784.1	4411.3	4158.0	4059.3
65°	7536.8	5828.1	4580.8	3703.8	3115.6	2736.3	2485.4	2393.3
67.5°	5520.4	3652.0	2439.3	1748.2	1281.0	1021.8	919.0	876.1
70°	2478.1	1286.0	788.2	615.3	530.7	487.1	468.1	461.5
72.5°	747.0	540.5	455.8	411.3	377.6	356.3	340.5	339.0
75°	450.9	375.1	333.2	307.0	285.5	268.2	260.0	257.5
77.5°	315.0	275.6	255.8	237.0	220.4	207.2	200.0	194.2
80°	221.3	202.4	193.3	182.6	171.9	159.5	148.8	144.0
82.5°	148.1	144.0	144.0	137.4	128.4	116.8	95.4	90.5
85°	95.4	94.6	96.3	93.9	87.2	74.9	61.8	58.4
87.5°	44.5	45.3	50.1	49.3	47.7	39.4	31.4	29.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)