

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: P191651

Luminaire Tested: **GLEON-AF-03-LED-E1-5NQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191651
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-7050
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 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: 18746 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

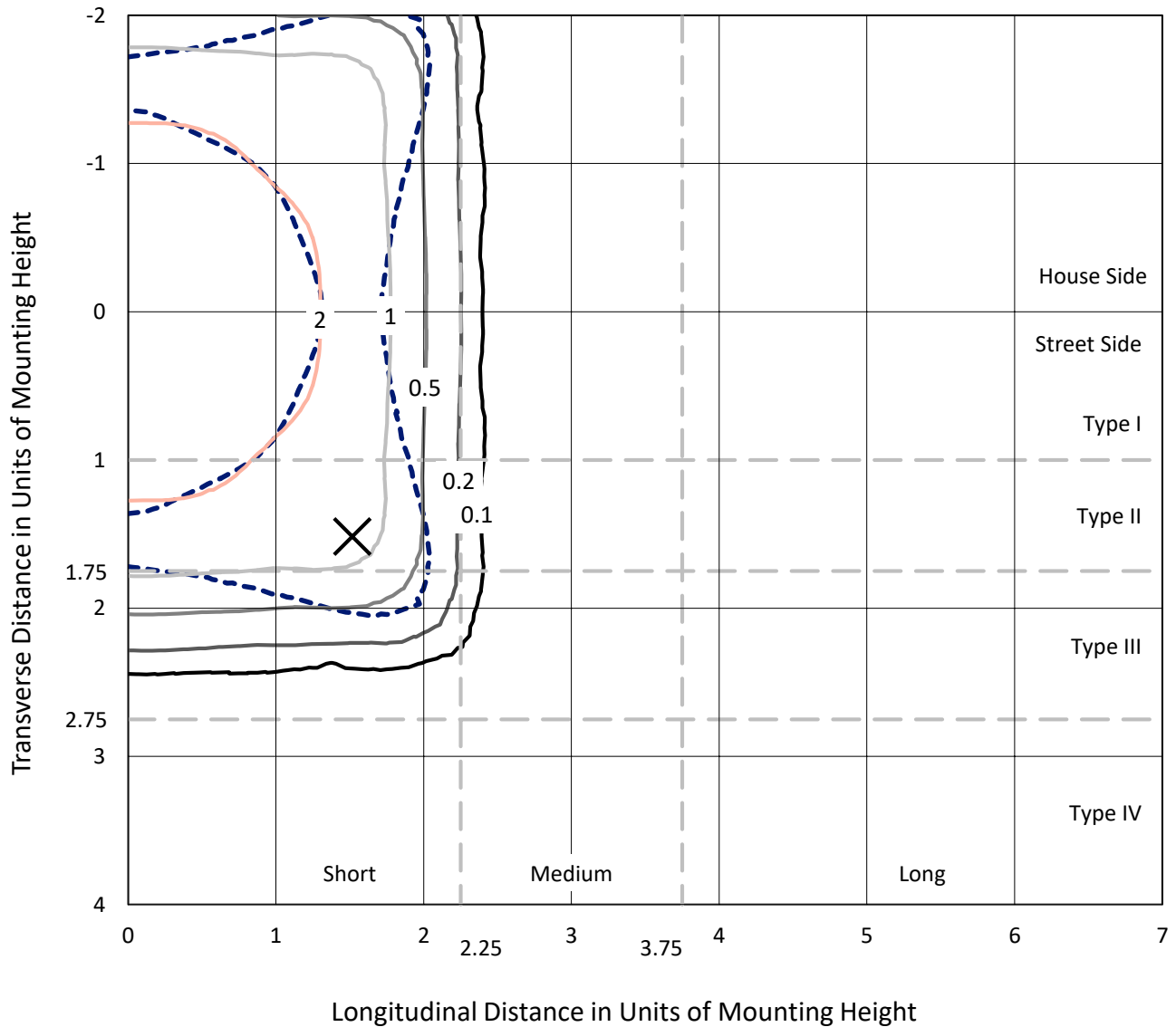
Input Watts (W): 166
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

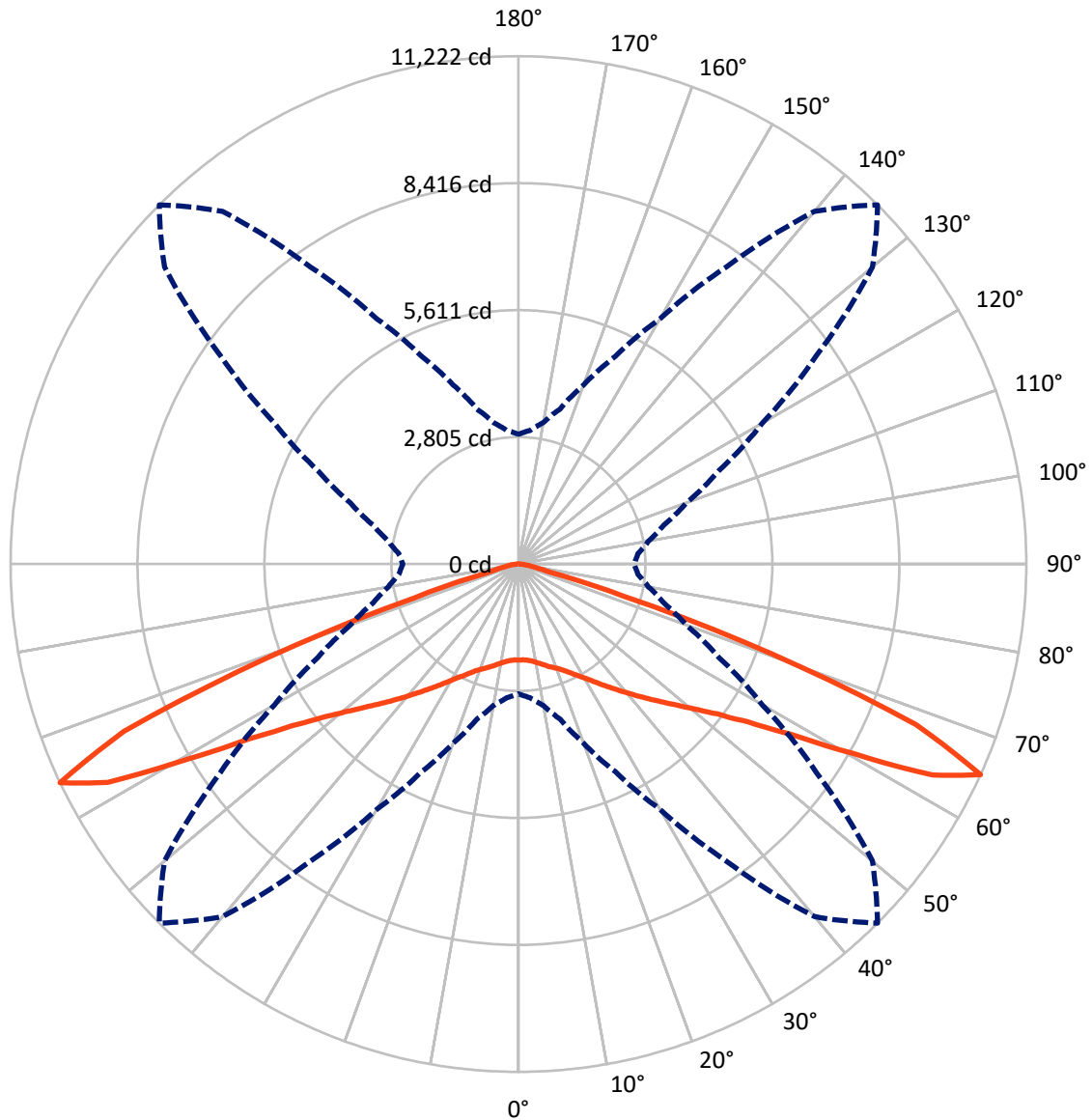
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	9373.0	0.0	9373.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9373.0	0.0	9373.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	18746.0	0.0	18746.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.7	1.1
10°-20°	663.1	3.5
20°-30°	1239.8	6.6
30°-40°	2096.8	11.2
40°-50°	3428.5	18.3
50°-60°	5451.9	29.1
60°-70°	4928.2	26.3
70°-80°	623.7	3.3
80°-90°	107.3	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°	18746.0	100.0
0°-180°	18746.0	100.0



REPORT NUMBER: P191651

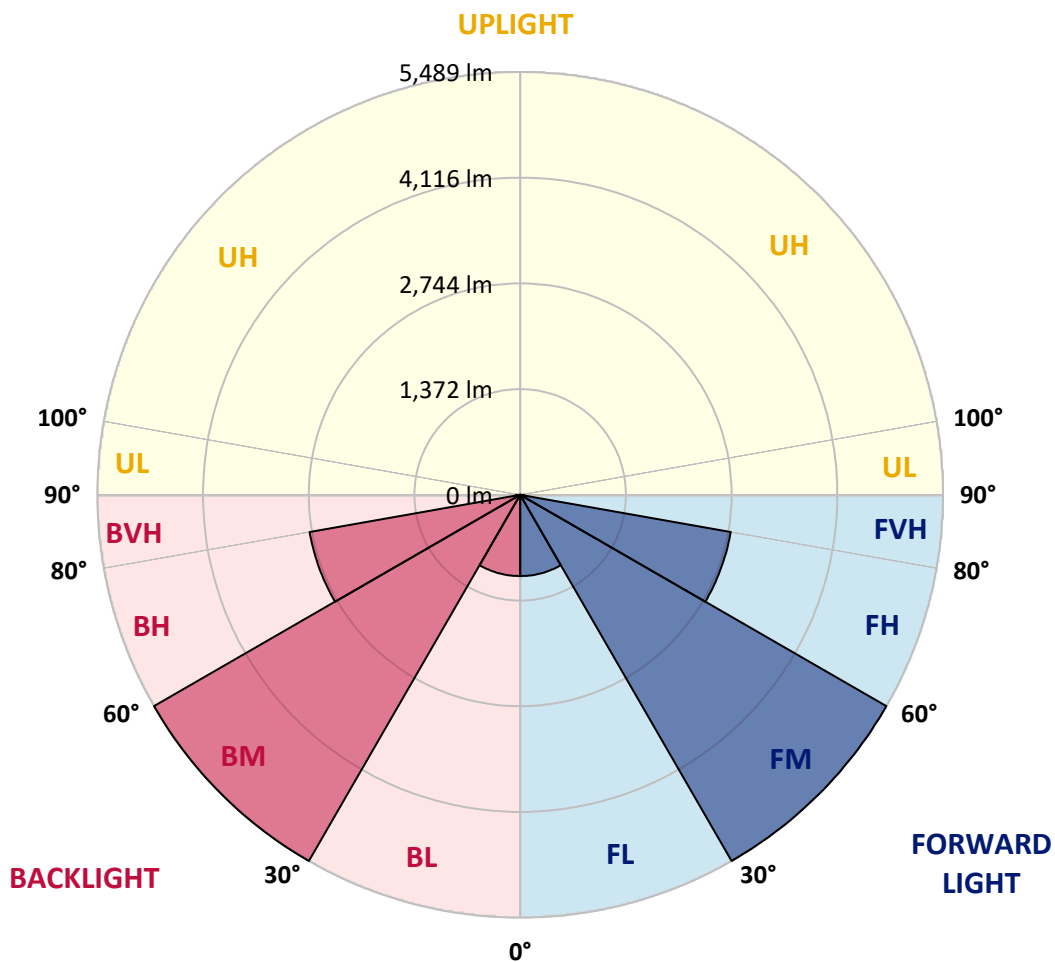
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1054.8	5.6			
FM	(30°-60°)	5488.6	29.3			
FH	(60°-80°)	2775.9	14.8			G2/5000
FVH	(80°-90°)	53.6	0.3			G1/100
BL	(0°-30°)	1054.8	5.6	B3/2500		
BM	(30°-60°)	5488.6	29.3	B4/8500		
BH	(60°-80°)	2775.9	14.8	B4/5000		G2/5000
BVH	(80°-90°)	53.6	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°	2121.1	2121.1	2121.1	2121.1	2121.1	2121.1	2121.1	2121.1	2121.1	2121.1	2121.1
2.5°	2122.9	2124.6	2126.4	2124.6	2126.4	2123.8	2122.0	2124.6	2122.0	2119.4	2121.1
5°	2141.3	2142.2	2142.2	2139.6	2142.2	2140.4	2137.8	2141.3	2138.7	2136.0	2137.8
7.5°	2172.0	2175.6	2172.9	2170.3	2172.0	2170.3	2168.5	2169.4	2168.5	2165.9	2166.8
10°	2213.3	2215.9	2214.2	2213.3	2215.1	2214.2	2212.4	2211.5	2212.4	2209.8	2209.8
12.5°	2263.3	2262.5	2261.6	2262.5	2265.1	2265.1	2264.2	2265.1	2266.9	2267.7	2266.0
15°	2312.5	2314.3	2314.3	2314.3	2319.5	2323.9	2326.6	2328.3	2331.8	2332.7	2329.2
17.5°	2374.0	2374.0	2373.1	2374.0	2379.2	2386.3	2388.9	2392.4	2395.9	2398.6	2394.2
20°	2442.4	2444.2	2444.2	2446.0	2453.0	2460.9	2460.9	2462.6	2460.9	2462.6	2460.0
22.5°	2525.9	2531.1	2531.1	2532.0	2539.0	2548.7	2546.0	2548.7	2544.3	2547.8	2544.3
25°	2634.7	2642.6	2640.9	2640.9	2646.1	2652.3	2653.2	2658.4	2657.5	2661.9	2659.3
27.5°	2757.6	2769.9	2773.4	2772.6	2776.1	2782.2	2784.0	2790.1	2786.6	2790.1	2788.4
30°	2905.1	2910.4	2917.4	2920.1	2924.4	2930.6	2930.6	2931.5	2927.1	2932.3	2935.0
32.5°	3057.9	3067.5	3074.6	3090.4	3098.3	3102.7	3101.8	3103.5	3099.2	3106.2	3111.4
35°	3259.8	3266.8	3278.3	3290.5	3301.1	3300.2	3297.6	3298.4	3298.4	3304.6	3309.9
37.5°	3503.0	3504.8	3519.7	3537.2	3542.5	3537.2	3521.4	3517.9	3510.0	3517.9	3526.7
40°	3760.2	3766.4	3796.2	3807.7	3810.3	3800.6	3777.8	3764.6	3747.1	3756.7	3769.0
42.5°	4029.8	4042.1	4069.3	4089.5	4098.3	4092.1	4060.5	4040.3	4017.5	4022.8	4035.0
45°	4328.3	4343.2	4381.8	4401.1	4417.8	4408.2	4377.4	4346.7	4310.7	4313.4	4332.7
47.5°	4661.9	4676.8	4726.9	4759.4	4768.1	4766.4	4732.1	4690.0	4640.8	4639.1	4655.8
50°	5035.9	5050.8	5113.2	5163.2	5188.7	5186.0	5145.6	5085.9	5026.2	5027.1	5048.2
52.5°	5401.1	5419.6	5484.5	5570.6	5620.6	5656.6	5632.0	5575.8	5503.0	5504.7	5524.0
55°	5743.5	5774.3	5848.9	5965.6	6058.7	6159.7	6188.6	6186.9	6143.0	6155.3	6174.6
57.5°	5909.5	5955.1	6070.1	6254.5	6444.1	6649.6	6823.4	6953.3	7008.7	7092.1	7072.7
60°	5595.2	5668.0	5837.5	6108.8	6483.6	6912.1	7371.2	7819.9	8202.7	8491.5	8325.6
62.5°	4581.1	4675.9	4881.4	5229.1	5796.2	6481.9	7360.7	8421.3	9576.6	10273.7	9775.9
65°	2866.5	2964.8	3173.8	3546.0	4209.8	5062.2	6254.5	8012.1	10171.0	11221.9	10208.8
67.5°	1117.6	1171.2	1284.4	1522.4	2021.0	2779.6	3976.2	5970.9	8553.0	9473.9	8394.1
70°	560.1	565.4	586.5	630.4	737.5	957.8	1457.4	2768.2	4905.1	5924.4	4728.6
72.5°	404.7	405.6	416.1	435.5	469.7	518.9	613.7	847.2	1595.2	2438.1	1495.1
75°	309.9	313.4	319.6	330.1	348.5	373.1	407.4	488.1	604.9	701.5	590.0
77.5°	238.8	245.8	250.2	259.9	271.3	288.0	297.6	328.4	381.9	402.1	396.0
80°	181.7	187.9	197.5	205.4	213.3	221.2	217.7	231.8	259.9	276.6	267.8
82.5°	115.9	122.9	151.0	158.0	161.5	166.8	160.7	161.5	173.8	184.4	173.8
85°	74.6	79.0	95.7	104.5	105.4	108.9	106.2	100.1	100.1	91.3	102.7
87.5°	34.2	35.1	43.0	50.9	52.7	47.4	46.5	44.8	36.0	34.2	36.9
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°	2121.1	2121.1	2121.1	2121.1	2121.1	2121.1	2121.1	2121.1
2.5°	2120.2	2122.0	2122.9	2125.5	2126.4	2126.4	2127.3	2129.0
5°	2136.9	2139.6	2140.4	2143.9	2144.8	2143.9	2145.7	2146.6
7.5°	2166.8	2171.2	2172.9	2176.4	2173.8	2177.3	2178.2	2178.2
10°	2210.7	2215.1	2215.9	2219.5	2217.7	2219.5	2219.5	2217.7
12.5°	2268.6	2269.5	2266.9	2269.5	2266.0	2267.7	2265.1	2263.3
15°	2332.7	2330.1	2323.9	2323.9	2318.7	2319.5	2318.7	2317.8
17.5°	2395.0	2389.8	2385.4	2383.6	2379.2	2378.4	2375.7	2375.7
20°	2463.5	2460.9	2458.3	2454.7	2450.4	2446.0	2445.1	2446.8
22.5°	2546.0	2545.2	2545.2	2543.4	2537.3	2532.9	2530.2	2530.2
25°	2656.7	2648.8	2648.8	2647.9	2645.3	2642.6	2637.4	2640.0
27.5°	2781.3	2776.9	2780.5	2779.6	2776.9	2776.9	2773.4	2773.4
30°	2935.0	2933.2	2938.5	2934.1	2925.3	2924.4	2920.9	2916.5
32.5°	3112.3	3110.6	3118.5	3113.2	3099.2	3091.3	3084.2	3080.7
35°	3309.9	3310.7	3320.4	3316.9	3301.1	3295.8	3283.5	3281.8
37.5°	3525.8	3539.9	3556.6	3560.1	3546.9	3543.4	3530.2	3523.2
40°	3779.6	3798.0	3823.5	3829.6	3815.6	3812.9	3794.5	3784.8
42.5°	4050.0	4081.6	4113.2	4118.4	4104.4	4090.4	4072.8	4065.8
45°	4352.0	4389.7	4431.0	4441.5	4420.5	4403.8	4381.0	4381.0
47.5°	4690.9	4738.3	4784.8	4813.8	4794.5	4776.9	4749.7	4732.1
50°	5091.2	5156.2	5216.8	5246.6	5215.9	5182.5	5135.1	5119.3
52.5°	5593.4	5663.6	5716.3	5700.5	5653.1	5606.6	5554.8	5533.7
55°	6234.3	6258.0	6258.0	6198.3	6103.5	6025.4	5943.7	5916.5
57.5°	7035.9	6944.6	6804.1	6625.9	6402.0	6207.1	6075.4	6013.1
60°	7977.9	7538.9	7042.9	6555.6	6155.3	5825.2	5629.4	5539.8
62.5°	8605.6	7457.3	6463.4	5681.2	5105.3	4707.6	4437.1	4331.8
65°	8042.9	6219.4	4888.4	3952.5	3324.8	2920.1	2652.3	2553.9
67.5°	5891.0	3897.2	2603.1	1865.6	1367.0	1090.4	980.7	935.0
70°	2644.4	1372.2	841.1	656.7	566.3	519.7	499.6	492.5
72.5°	797.2	576.8	486.4	439.0	403.0	380.2	363.5	361.7
75°	481.1	400.3	355.6	327.5	304.6	286.2	277.4	274.8
77.5°	336.3	294.1	273.0	252.8	235.3	221.2	213.3	207.2
80°	236.2	216.0	206.3	194.9	183.5	170.3	158.9	153.6
82.5°	158.0	153.6	153.6	146.6	137.0	124.7	101.8	96.6
85°	101.8	101.0	102.7	100.1	93.1	79.9	65.8	62.3
87.5°	47.4	48.3	53.6	52.7	50.9	42.1	33.4	31.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)