

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: P192601

Luminaire Tested: **GLEON-AF-03-LED-E1-5NQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192601
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-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19888.4 lumens
Efficiency: N/A
Efficacy: 104.1 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): 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

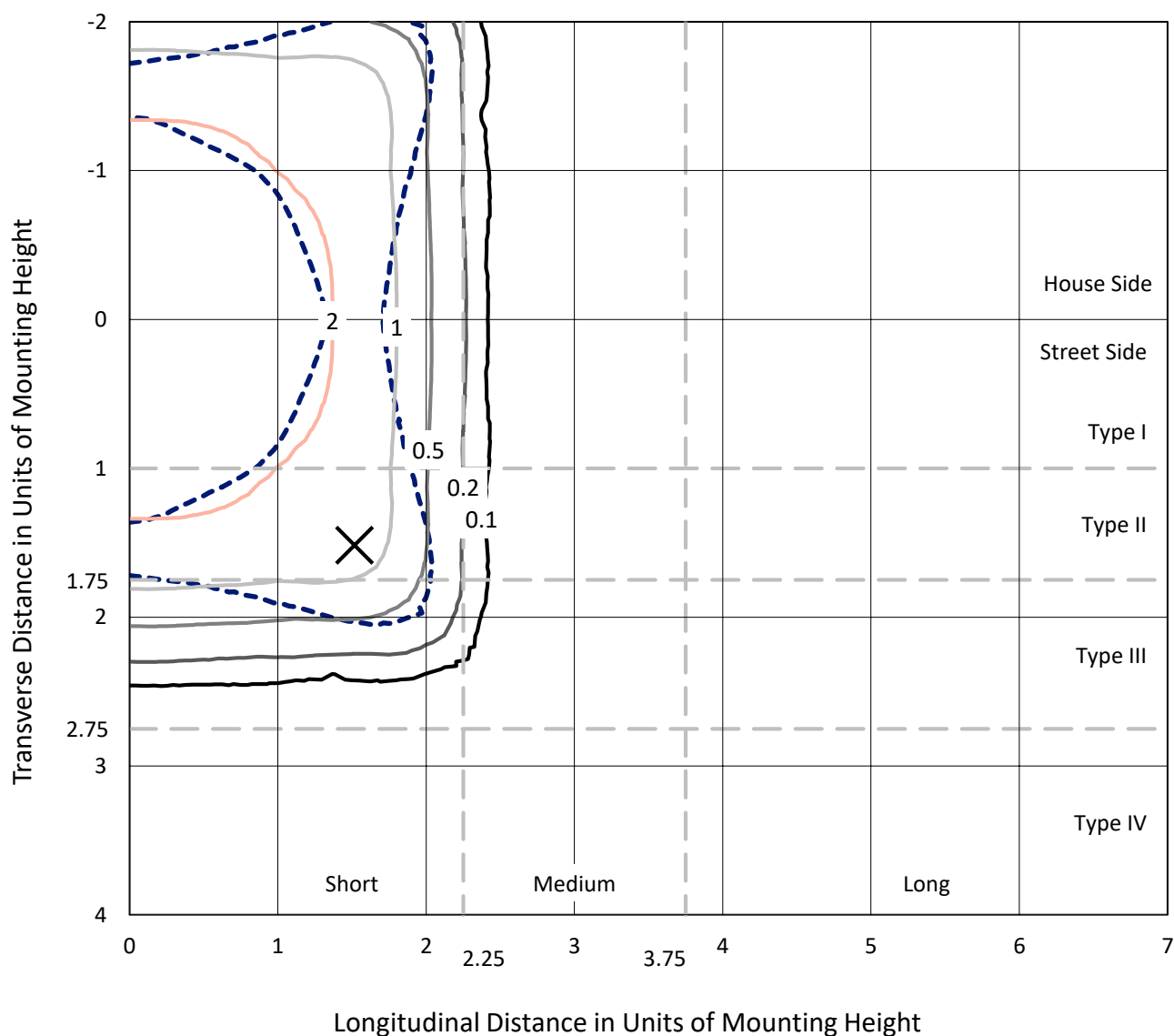


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

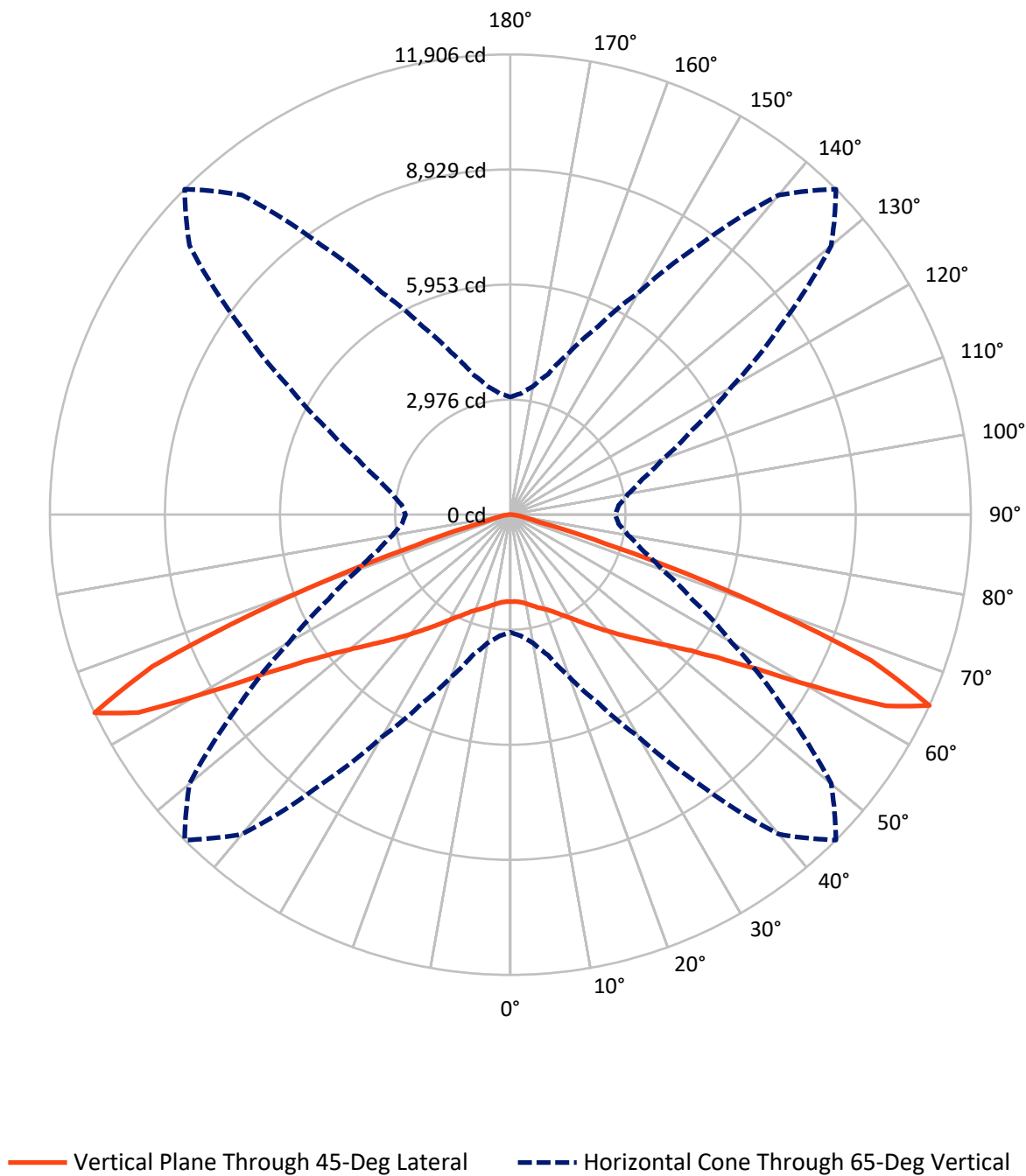


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9944.2	0.0	9944.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9944.2	0.0	9944.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	19888.4	0.0	19888.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.3	1.1
10°-20°	703.5	3.5
20°-30°	1315.3	6.6
30°-40°	2224.6	11.2
40°-50°	3637.5	18.3
50°-60°	5784.2	29.1
60°-70°	5228.5	26.3
70°-80°	661.7	3.3
80°-90°	113.8	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°	19888.4	100.0
0°-180°	19888.4	100.0

Coefficient of Utilization



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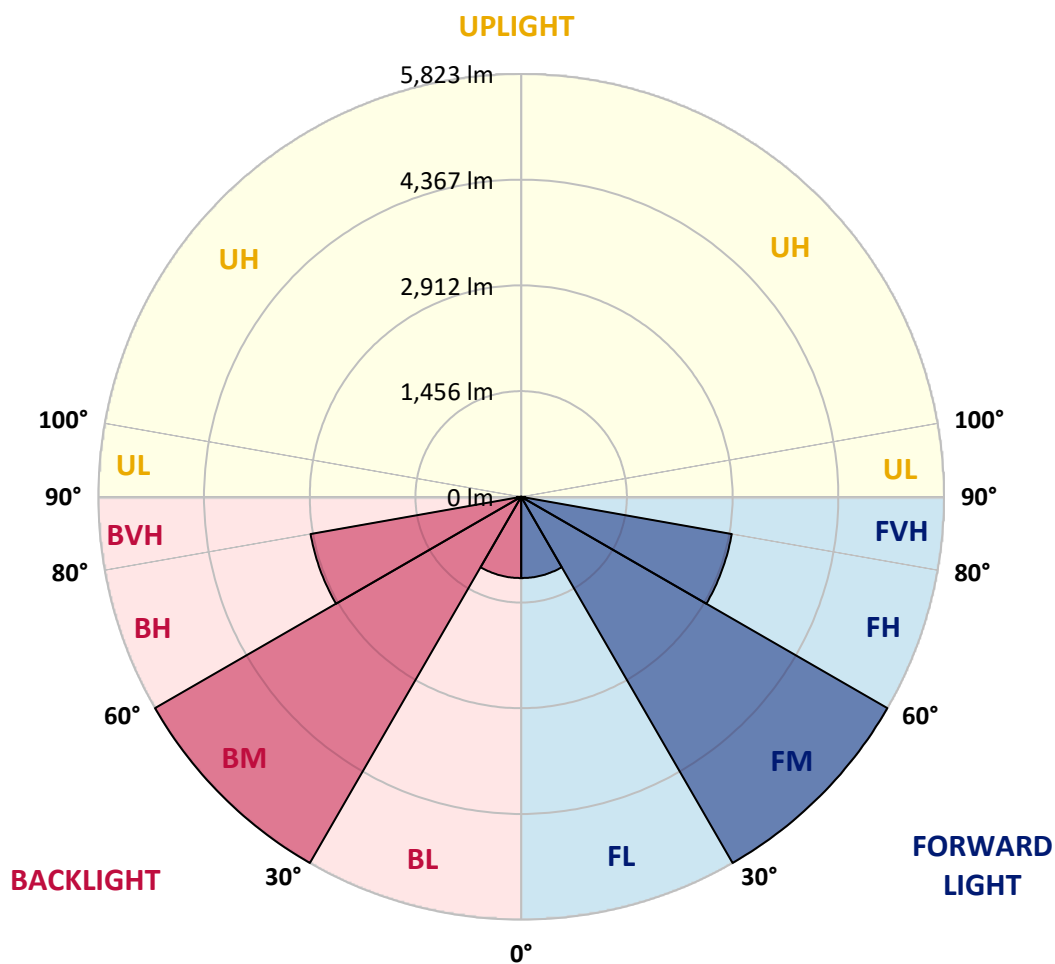
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1119.1	5.6			
FM	(30°-60°)	5823.1	29.3			
FH	(60°-80°)	2945.1	14.8			G2/5000
FVH	(80°-90°)	56.9	0.3			G1/100
BL	(0°-30°)	1119.1	5.6	B3/2500		
BM	(30°-60°)	5823.1	29.3	B4/8500		
BH	(60°-80°)	2945.1	14.8	B4/5000		G2/5000
BVH	(80°-90°)	56.9	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°	2250.4	2250.4	2250.4	2250.4	2250.4	2250.4	2250.4	2250.4	2250.4	2250.4	2250.4
2.5°	2252.3	2254.1	2255.9	2254.1	2255.9	2253.2	2251.3	2254.1	2251.3	2248.5	2250.4
5°	2271.8	2272.7	2272.7	2270.0	2272.7	2270.9	2268.1	2271.8	2269.0	2266.2	2268.1
7.5°	2304.4	2308.1	2305.4	2302.5	2304.4	2302.5	2300.7	2301.6	2300.7	2297.9	2298.9
10°	2348.2	2351.0	2349.1	2348.2	2350.0	2349.1	2347.2	2346.4	2347.2	2344.4	2344.4
12.5°	2401.3	2400.3	2399.5	2400.3	2403.1	2403.1	2402.2	2403.1	2405.1	2405.9	2404.0
15°	2453.4	2455.3	2455.3	2455.3	2460.8	2465.6	2468.3	2470.3	2473.9	2474.8	2471.1
17.5°	2518.7	2518.7	2517.8	2518.7	2524.2	2531.6	2534.5	2538.2	2541.9	2544.7	2540.1
20°	2591.3	2593.2	2593.2	2595.0	2602.4	2610.9	2610.9	2612.7	2610.9	2612.7	2609.9
22.5°	2679.8	2685.4	2685.4	2686.3	2693.8	2704.0	2701.2	2704.0	2699.4	2703.1	2699.4
25°	2795.3	2803.7	2801.9	2801.9	2807.4	2814.0	2814.8	2820.4	2819.6	2824.2	2821.4
27.5°	2925.8	2938.7	2942.5	2941.5	2945.3	2951.7	2953.6	2960.2	2956.4	2960.2	2958.3
30°	3082.2	3087.7	3095.2	3098.0	3102.6	3109.2	3109.2	3110.2	3105.4	3111.0	3113.9
32.5°	3244.2	3254.5	3261.9	3278.8	3287.1	3291.8	3290.8	3292.6	3288.0	3295.5	3301.0
35°	3458.5	3465.9	3478.0	3491.1	3502.3	3501.3	3498.6	3499.5	3499.5	3506.0	3511.6
37.5°	3716.5	3718.3	3734.2	3752.8	3758.4	3752.8	3736.0	3732.3	3724.0	3732.3	3741.7
40°	3989.4	3995.9	4027.7	4039.8	4042.5	4032.2	4008.0	3994.1	3975.4	3985.7	3998.8
42.5°	4275.4	4288.4	4317.3	4338.6	4348.0	4341.5	4308.0	4286.6	4262.3	4267.8	4281.0
45°	4592.0	4607.9	4648.9	4669.4	4687.1	4676.9	4644.2	4611.7	4573.5	4576.3	4596.7
47.5°	4946.0	4961.9	5014.9	5049.4	5058.7	5056.8	5020.6	4975.7	4923.7	4921.8	4939.5
50°	5342.8	5358.6	5424.8	5477.8	5504.9	5502.1	5459.2	5395.9	5332.6	5333.5	5355.9
52.5°	5730.3	5749.9	5818.8	5910.1	5963.2	6001.4	5975.3	5915.7	5838.4	5840.2	5860.6
55°	6093.6	6126.1	6205.4	6329.2	6427.9	6535.2	6565.8	6564.0	6517.5	6530.4	6550.8
57.5°	6269.7	6318.0	6440.1	6635.7	6836.9	7054.9	7239.3	7377.0	7435.7	7524.2	7503.8
60°	5936.2	6013.4	6193.3	6481.0	6878.8	7333.4	7820.4	8296.5	8702.6	9009.0	8832.9
62.5°	4860.3	4960.9	5178.9	5547.7	6149.4	6876.9	7809.3	8934.4	10160.2	10899.8	10371.8
65°	3041.2	3145.5	3367.2	3762.2	4466.3	5370.7	6635.7	8500.5	10790.9	11905.9	10831.0
67.5°	1185.8	1242.6	1362.7	1615.2	2144.2	2949.0	4218.5	6334.9	9074.2	10051.3	8905.6
70°	594.3	599.9	622.2	668.7	782.4	1016.2	1546.2	2936.9	5204.0	6285.4	5016.8
72.5°	429.4	430.4	441.5	461.9	498.3	550.4	651.0	898.8	1692.4	2586.6	1586.2
75°	328.8	332.4	339.0	350.1	369.8	395.8	432.2	517.9	641.8	744.3	625.9
77.5°	253.4	260.8	265.5	275.7	287.8	305.5	315.8	348.3	405.2	426.6	420.1
80°	192.9	199.3	209.6	218.0	226.3	234.7	231.0	246.0	275.7	293.4	284.1
82.5°	122.9	130.4	160.2	167.7	171.4	177.0	170.5	171.4	184.4	195.6	184.4
85°	79.2	83.8	101.5	110.8	111.8	115.5	112.7	106.2	106.2	96.9	108.9
87.5°	36.3	37.2	45.7	54.0	55.9	50.3	49.3	47.5	38.2	36.3	39.2
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°	2250.4	2250.4	2250.4	2250.4	2250.4	2250.4	2250.4	2250.4
2.5°	2249.4	2251.3	2252.3	2255.0	2255.9	2255.9	2256.9	2258.8
5°	2267.1	2270.0	2270.9	2274.6	2275.6	2274.6	2276.4	2277.4
7.5°	2298.9	2303.5	2305.4	2309.0	2306.3	2310.0	2311.0	2311.0
10°	2345.4	2350.0	2351.0	2354.7	2352.9	2354.7	2354.7	2352.9
12.5°	2406.9	2407.8	2405.1	2407.8	2404.0	2405.9	2403.1	2401.3
15°	2474.8	2472.1	2465.6	2465.6	2460.0	2460.8	2460.0	2459.0
17.5°	2541.1	2535.4	2530.8	2529.0	2524.2	2523.4	2520.5	2520.5
20°	2613.7	2610.9	2608.0	2604.3	2599.8	2595.0	2594.2	2596.0
22.5°	2701.2	2700.3	2700.3	2698.3	2691.9	2687.2	2684.5	2684.5
25°	2818.6	2810.1	2810.1	2809.3	2806.5	2803.7	2798.1	2800.9
27.5°	2950.9	2946.1	2949.9	2949.0	2946.1	2946.1	2942.5	2942.5
30°	3113.9	3112.0	3117.6	3112.9	3103.6	3102.6	3098.9	3094.3
32.5°	3302.1	3300.1	3308.5	3302.9	3288.0	3279.6	3272.2	3268.5
35°	3511.6	3512.4	3522.7	3519.0	3502.3	3496.7	3483.6	3481.8
37.5°	3740.7	3755.6	3773.3	3777.1	3763.1	3759.4	3745.4	3737.9
40°	4010.0	4029.5	4056.5	4063.1	4048.0	4045.4	4025.7	4015.5
42.5°	4296.8	4330.3	4363.9	4369.5	4354.5	4339.7	4320.9	4313.5
45°	4617.2	4657.2	4701.0	4712.3	4689.9	4672.2	4648.0	4648.0
47.5°	4976.8	5027.0	5076.4	5107.1	5086.7	5068.0	5039.1	5020.6
50°	5401.4	5470.4	5534.7	5566.3	5533.8	5498.4	5448.1	5431.3
52.5°	5934.3	6008.8	6064.7	6047.9	5997.7	5948.3	5893.3	5870.9
55°	6614.2	6639.3	6639.3	6576.1	6475.5	6392.5	6305.9	6277.1
57.5°	7464.7	7367.8	7218.8	7029.6	6792.1	6585.4	6445.6	6379.5
60°	8464.1	7998.5	7472.1	6955.1	6530.4	6180.1	5972.4	5877.5
62.5°	9130.1	7911.8	6857.3	6027.4	5416.4	4994.5	4707.6	4595.8
65°	8533.0	6598.3	5186.3	4193.4	3527.4	3098.0	2814.0	2709.6
67.5°	6250.0	4134.7	2761.7	1979.3	1450.3	1156.8	1040.4	992.0
70°	2805.6	1455.9	892.3	696.7	600.8	551.4	530.0	522.6
72.5°	845.7	612.0	516.0	465.8	427.5	403.2	385.5	383.7
75°	510.5	424.7	377.3	347.5	323.2	303.6	294.4	291.5
77.5°	356.7	312.1	289.6	268.2	249.6	234.7	226.3	219.8
80°	250.5	229.1	218.8	206.8	194.7	180.8	168.6	163.1
82.5°	167.7	163.1	163.1	155.5	145.4	132.3	108.0	102.4
85°	108.0	107.1	108.9	106.2	98.8	84.7	69.8	66.1
87.5°	50.3	51.3	56.9	55.9	54.0	44.7	35.4	33.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)