

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: P192582

Luminaire Tested: **GLEON-AF-04-LED-E1-5NQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192582
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-04-LED-E1-5NQ-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19354.2 lumens
Efficiency: N/A
Efficacy: 113.2 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): 171
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

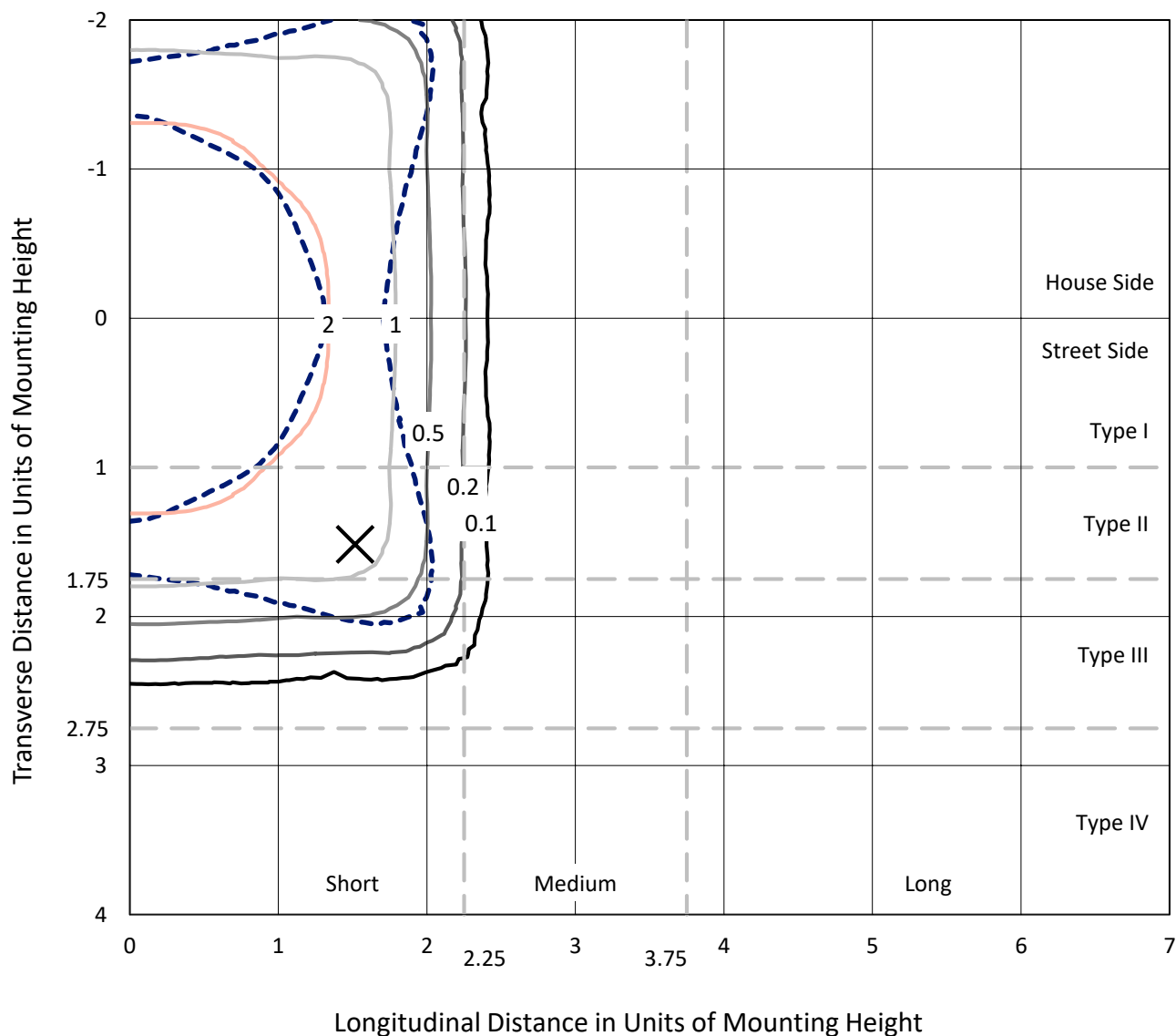


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

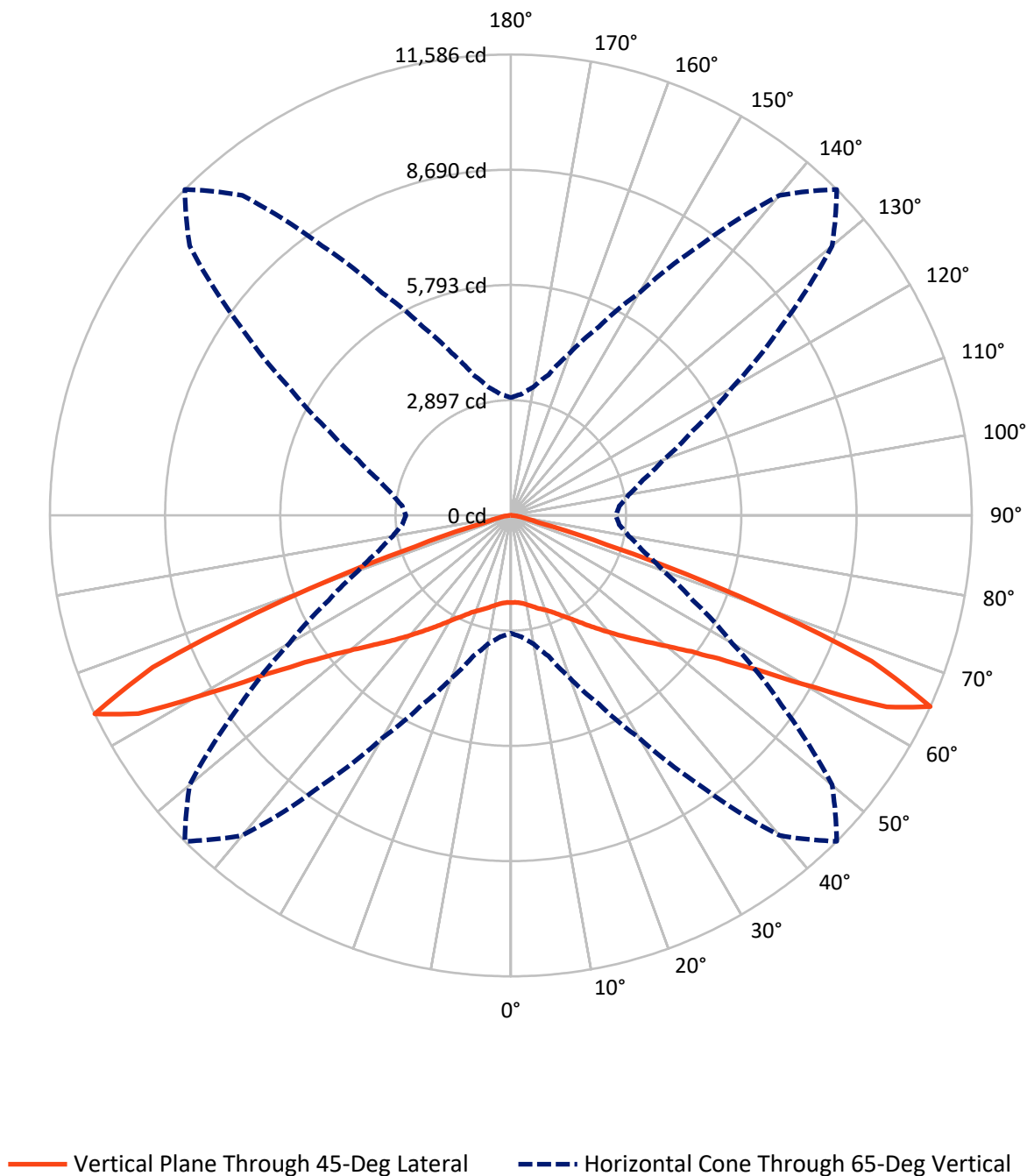


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9677.1	0.0	9677.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9677.1	0.0	9677.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	19354.2	0.0	19354.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.4	1.1
10°-20°	684.6	3.5
20°-30°	1280.0	6.6
30°-40°	2164.9	11.2
40°-50°	3539.8	18.3
50°-60°	5628.8	29.1
60°-70°	5088.1	26.3
70°-80°	643.9	3.3
80°-90°	110.8	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°	19354.2	100.0
0°-180°	19354.2	100.0

Coefficient of Utilization



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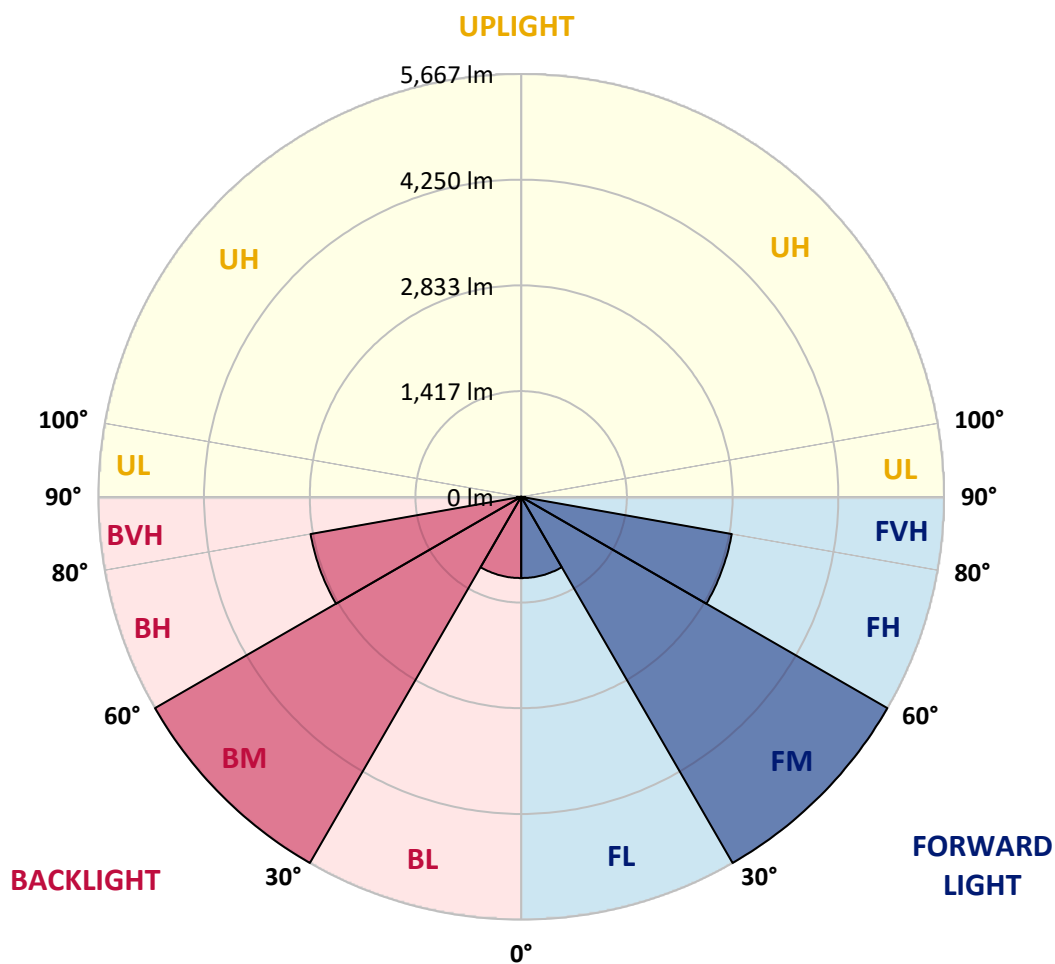
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1089.0	5.6			
FM	(30°-60°)	5666.7	29.3			
FH	(60°-80°)	2866.0	14.8			G2/5000
FVH	(80°-90°)	55.4	0.3			G1/100
BL	(0°-30°)	1089.0	5.6	B3/2500		
BM	(30°-60°)	5666.7	29.3	B4/8500		
BH	(60°-80°)	2866.0	14.8	B4/5000		G2/5000
BVH	(80°-90°)	55.4	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°	2189.9	2189.9	2189.9	2189.9	2189.9	2189.9	2189.9	2189.9	2189.9	2189.9	2189.9
2.5°	2191.7	2193.6	2195.3	2193.6	2195.3	2192.7	2190.8	2193.6	2190.8	2188.1	2189.9
5°	2210.8	2211.7	2211.7	2209.0	2211.7	2209.9	2207.1	2210.8	2208.0	2205.4	2207.1
7.5°	2242.5	2246.2	2243.4	2240.7	2242.5	2240.7	2238.8	2239.9	2238.8	2236.2	2237.1
10°	2285.1	2287.8	2286.0	2285.1	2286.9	2286.0	2284.2	2283.3	2284.2	2281.5	2281.5
12.5°	2336.7	2335.9	2335.0	2335.9	2338.5	2338.5	2337.7	2338.5	2340.5	2341.3	2339.5
15°	2387.6	2389.4	2389.4	2389.4	2394.8	2399.4	2402.1	2403.8	2407.5	2408.4	2404.8
17.5°	2451.0	2451.0	2450.0	2451.0	2456.4	2463.7	2466.4	2470.1	2473.6	2476.4	2471.9
20°	2521.7	2523.5	2523.5	2525.3	2532.5	2540.8	2540.8	2542.6	2540.8	2542.6	2539.8
22.5°	2607.8	2613.3	2613.3	2614.1	2621.3	2631.4	2628.7	2631.4	2626.8	2630.4	2626.8
25°	2720.2	2728.3	2726.6	2726.6	2732.0	2738.4	2739.2	2744.7	2743.7	2748.3	2745.5
27.5°	2847.1	2859.8	2863.4	2862.5	2866.1	2872.4	2874.3	2880.6	2877.1	2880.6	2878.9
30°	2999.3	3004.8	3012.1	3014.8	3019.3	3025.7	3025.7	3026.6	3022.0	3027.5	3030.2
32.5°	3157.0	3167.1	3174.3	3190.6	3198.8	3203.4	3202.4	3204.2	3199.6	3207.0	3212.4
35°	3365.6	3372.9	3384.7	3397.3	3408.3	3407.2	3404.5	3405.5	3405.5	3411.8	3417.2
37.5°	3616.7	3618.4	3633.9	3652.0	3657.5	3652.0	3635.7	3632.1	3623.9	3632.1	3641.2
40°	3882.2	3888.5	3919.4	3931.1	3933.9	3923.9	3900.3	3886.8	3868.7	3878.6	3891.3
42.5°	4160.5	4173.1	4201.3	4222.1	4231.2	4224.8	4192.3	4171.4	4147.8	4153.3	4165.9
45°	4468.7	4484.1	4524.0	4544.0	4561.1	4551.2	4519.5	4487.8	4450.5	4453.3	4473.2
47.5°	4813.2	4828.6	4880.2	4913.7	4922.7	4921.0	4885.6	4842.2	4791.3	4789.6	4806.8
50°	5199.3	5214.7	5279.1	5330.8	5357.0	5354.2	5312.6	5251.0	5189.3	5190.3	5212.0
52.5°	5576.4	5595.3	5662.5	5751.3	5803.0	5840.1	5814.8	5756.8	5681.5	5683.3	5703.3
55°	5929.8	5961.6	6038.6	6159.2	6255.3	6359.6	6389.5	6387.7	6342.3	6354.9	6374.9
57.5°	6101.1	6148.3	6267.1	6457.4	6653.3	6865.3	7044.8	7178.9	7236.0	7322.1	7302.3
60°	5776.6	5851.9	6026.8	6307.0	6694.0	7136.4	7610.4	8073.6	8468.8	8767.0	8595.7
62.5°	4729.8	4827.6	5039.8	5398.7	5984.2	6692.1	7599.5	8694.6	9887.3	10607.0	10093.2
65°	2959.5	3061.0	3276.8	3661.1	4346.4	5226.5	6457.4	8272.1	10501.0	11586.0	10540.0
67.5°	1153.9	1209.2	1326.1	1571.8	2086.7	2869.8	4105.2	6164.6	8830.5	9781.3	8666.3
70°	578.3	583.8	605.6	650.8	761.4	988.9	1504.7	2858.0	5064.2	6116.6	4882.0
72.5°	417.9	418.8	429.6	449.6	484.9	535.7	633.6	874.7	1647.0	2517.2	1543.7
75°	320.0	323.6	330.0	340.8	359.9	385.2	420.5	504.0	624.5	724.3	609.1
77.5°	246.6	253.8	258.3	268.3	280.1	297.3	307.2	339.0	394.3	415.1	408.8
80°	187.6	193.9	204.0	212.1	220.2	228.5	224.7	239.3	268.3	285.5	276.4
82.5°	119.6	126.8	155.9	163.2	166.7	172.2	165.8	166.7	179.5	190.3	179.5
85°	77.0	81.6	98.8	107.8	108.8	112.4	109.7	103.4	103.4	94.3	106.1
87.5°	35.4	36.3	44.5	52.6	54.4	48.9	48.1	46.2	37.1	35.4	38.0
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°	2189.9	2189.9	2189.9	2189.9	2189.9	2189.9	2189.9	2189.9
2.5°	2189.0	2190.8	2191.7	2194.5	2195.3	2195.3	2196.3	2198.1
5°	2206.3	2209.0	2209.9	2213.5	2214.3	2213.5	2215.3	2216.3
7.5°	2237.1	2241.6	2243.4	2247.0	2244.3	2247.9	2248.9	2248.9
10°	2282.4	2286.9	2287.8	2291.5	2289.6	2291.5	2291.5	2289.6
12.5°	2342.2	2343.2	2340.5	2343.2	2339.5	2341.3	2338.5	2336.7
15°	2408.4	2405.7	2399.4	2399.4	2393.9	2394.8	2393.9	2393.0
17.5°	2472.7	2467.3	2462.8	2460.9	2456.4	2455.5	2452.8	2452.8
20°	2543.4	2540.8	2538.0	2534.4	2529.9	2525.3	2524.4	2526.2
22.5°	2628.7	2627.8	2627.8	2625.9	2619.6	2615.0	2612.3	2612.3
25°	2742.9	2734.6	2734.6	2733.7	2731.1	2728.3	2723.0	2725.7
27.5°	2871.6	2867.1	2870.7	2869.8	2867.1	2867.1	2863.4	2863.4
30°	3030.2	3028.3	3033.8	3029.3	3020.3	3019.3	3015.7	3011.1
32.5°	3213.4	3211.4	3219.7	3214.2	3199.6	3191.6	3184.3	3180.6
35°	3417.2	3418.1	3428.1	3424.5	3408.3	3402.8	3390.1	3388.2
37.5°	3640.2	3654.7	3671.9	3675.6	3662.0	3658.3	3644.8	3637.5
40°	3902.2	3921.2	3947.5	3953.9	3939.4	3936.6	3917.6	3907.6
42.5°	4181.4	4214.0	4246.6	4252.1	4237.5	4223.1	4205.0	4197.6
45°	4493.2	4532.2	4574.8	4585.6	4563.9	4546.6	4523.2	4523.2
47.5°	4843.0	4892.0	4940.0	4969.9	4950.0	4931.9	4903.8	4885.6
50°	5256.4	5323.4	5386.1	5416.8	5385.1	5350.7	5301.7	5285.4
52.5°	5774.9	5847.3	5901.7	5885.5	5836.5	5788.4	5735.0	5713.2
55°	6436.6	6461.0	6461.0	6399.5	6301.5	6220.7	6136.5	6108.4
57.5°	7264.1	7169.9	7024.9	6840.8	6609.6	6408.5	6272.5	6208.1
60°	8236.7	7783.5	7271.4	6768.3	6354.9	6014.1	5812.0	5719.6
62.5°	8884.9	7699.2	6673.1	5865.5	5270.8	4860.3	4581.1	4472.3
65°	8303.8	6421.1	5047.0	4080.8	3432.7	3014.8	2738.4	2636.8
67.5°	6082.1	4023.7	2687.6	1926.1	1411.3	1125.8	1012.5	965.3
70°	2730.2	1416.8	868.4	678.1	584.6	536.6	515.8	508.5
72.5°	823.0	595.6	502.1	453.2	416.1	392.5	375.3	373.4
75°	496.7	413.3	367.1	338.0	314.5	295.5	286.5	283.7
77.5°	347.1	303.6	281.9	261.0	242.9	228.5	220.2	213.9
80°	243.8	223.0	213.0	201.2	189.4	175.8	164.1	158.7
82.5°	163.2	158.7	158.7	151.4	141.4	128.7	105.1	99.8
85°	105.1	104.3	106.1	103.4	96.0	82.5	68.0	64.4
87.5°	48.9	49.8	55.2	54.4	52.6	43.4	34.4	32.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)