

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: P529153

Luminaire Tested: **GALN-SA4B-735-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-735-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12522 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

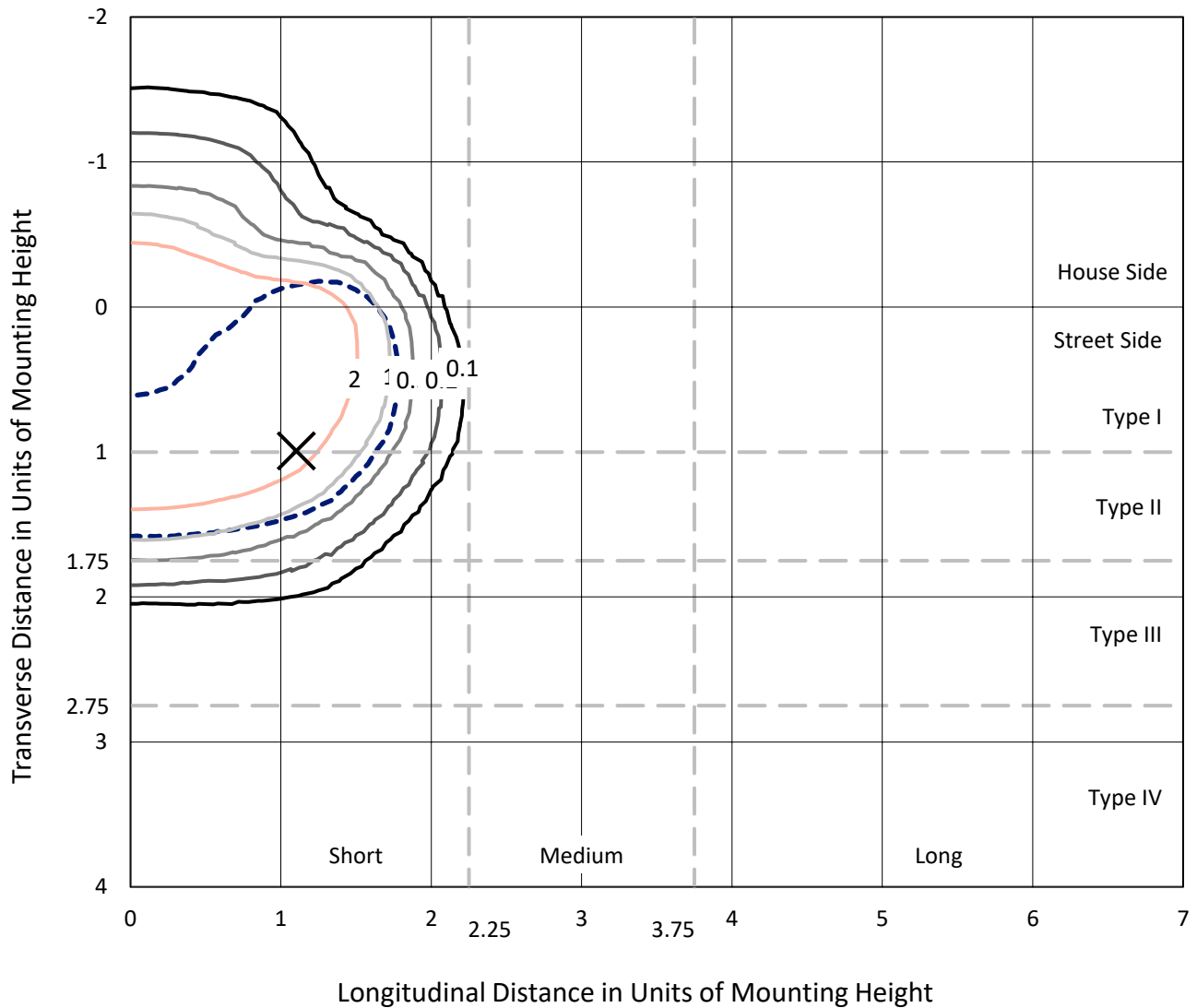
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

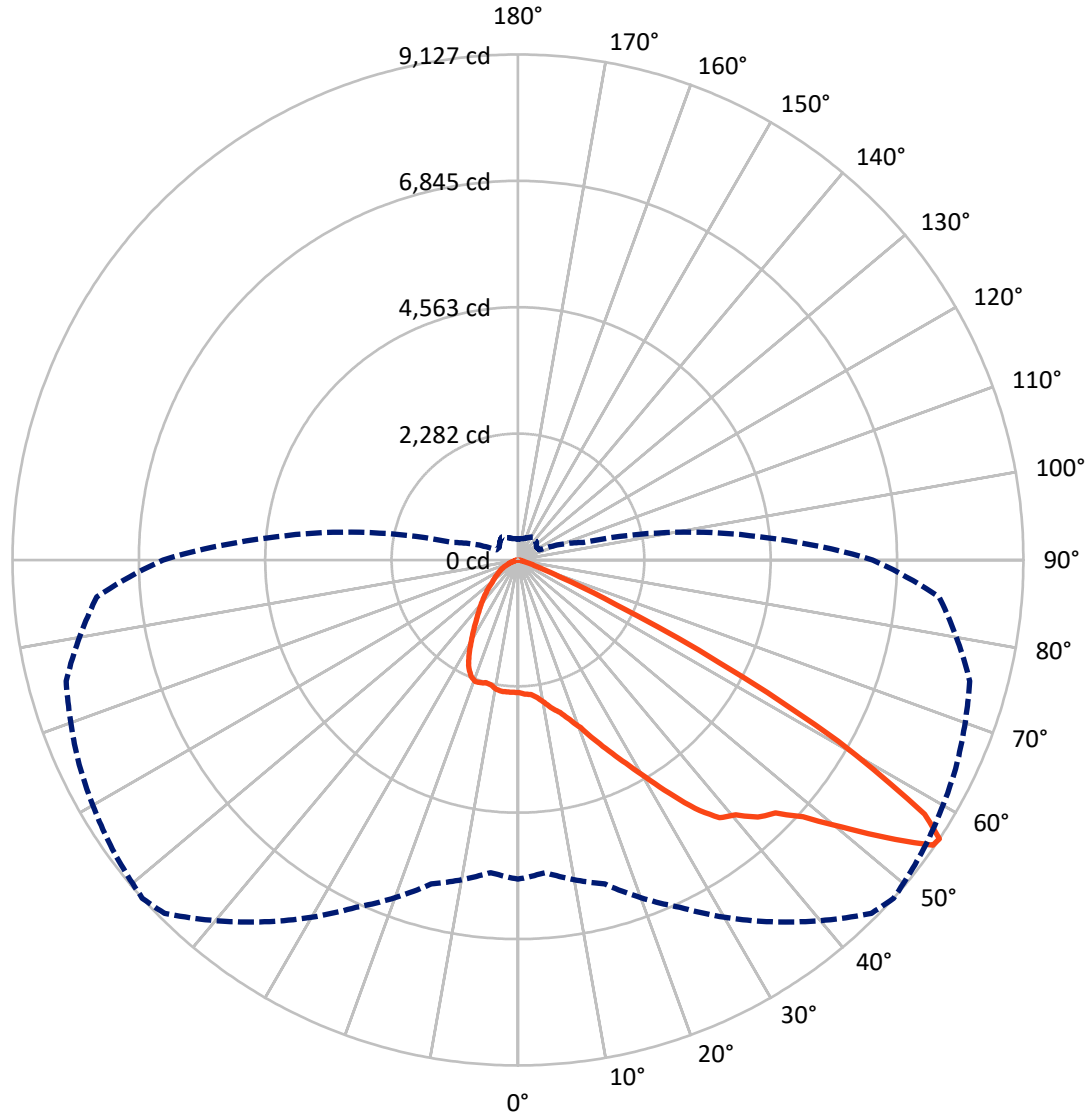
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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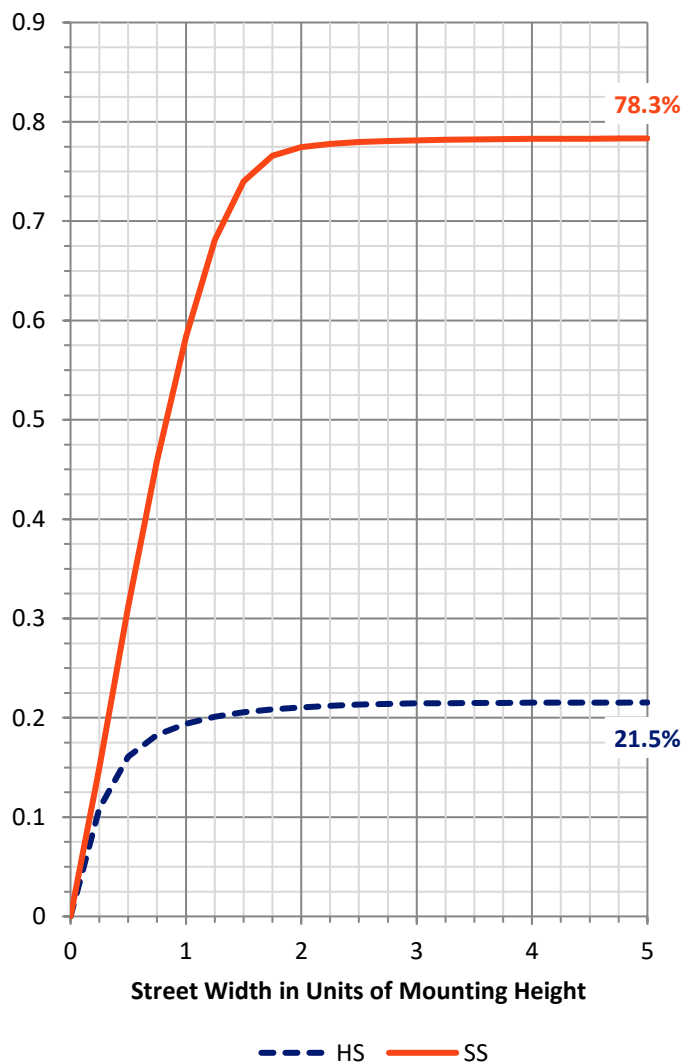
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2723.3	0.0	2723.3
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	9798.7	0.0	9798.7
	% Fixture	78.3	0.0	78.3
Total	Lumens	12522.0	0.0	12522.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.0	1.9
10°-20°	744.6	5.9
20°-30°	1350.5	10.8
30°-40°	2121.3	16.9
40°-50°	3094.6	24.7
50°-60°	3728.4	29.8
60°-70°	1091.7	8.7
70°-80°	138.5	1.1
80°-90°	19.4	0.2
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°	12522.0	100.0
0°-180°	12522.0	100.0

Coefficient of Utilization

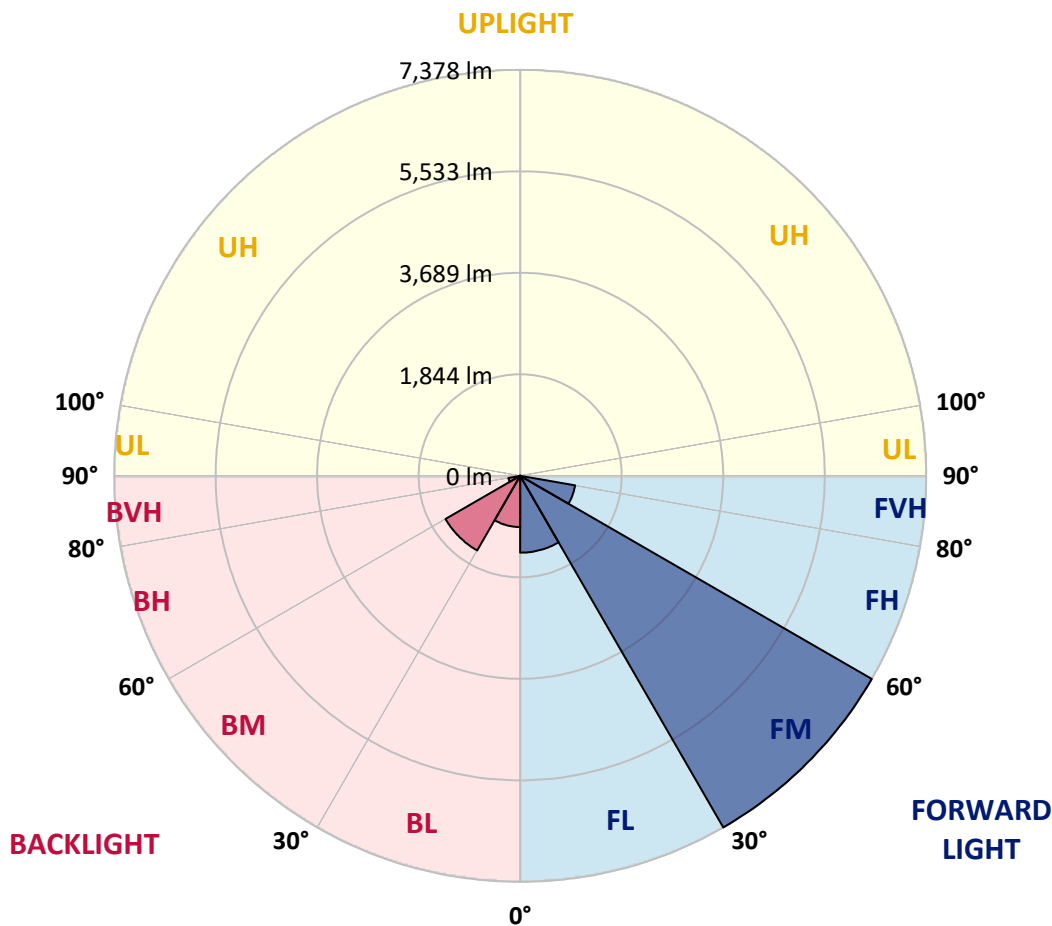


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1397.2	11.2			
FM (30°-60°)	7378.0	58.9			
FH (60°-80°)	1013.8	8.1			G1/1800
FVH (80°-90°)	9.8	0.1			G0/10
BL (0°-30°)	930.8	7.4	B2/1000		
BM (30°-60°)	1566.4	12.5	B2/2500		
BH (60°-80°)	216.4	1.7	B1/500		G1/500
BVH (80°-90°)	9.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2391.7	2391.7	2391.7	2391.7	2391.7	2391.7	2391.7	2391.7	2391.7	2391.7	2391.7
2.5°	2435.0	2423.6	2423.6	2405.4	2425.9	2416.8	2423.6	2400.8	2423.6	2389.4	2416.8
5°	2446.4	2448.7	2439.6	2451.0	2451.0	2464.7	2441.9	2462.4	2473.8	2448.7	2437.3
7.5°	2505.7	2510.3	2508.0	2498.9	2517.1	2514.8	2512.5	2496.6	2501.1	2492.0	2478.3
10°	2622.0	2619.7	2631.1	2608.3	2594.6	2610.6	2615.1	2590.1	2571.8	2565.0	2521.7
12.5°	2790.7	2763.3	2747.4	2724.6	2731.4	2708.6	2749.7	2706.3	2697.2	2656.2	2612.9
15°	2927.5	2922.9	2925.2	2888.7	2847.7	2856.8	2856.8	2834.0	2820.3	2770.2	2708.6
17.5°	3207.9	3112.2	3132.7	3087.1	3052.9	3050.6	3030.1	3034.7	2998.2	2893.3	2799.8
20°	3426.8	3385.8	3353.9	3276.3	3223.9	3239.9	3230.7	3207.9	3196.5	3059.7	2927.5
22.5°	3622.9	3636.6	3584.1	3563.6	3490.7	3497.5	3515.7	3495.2	3408.6	3267.2	3071.1
25°	3898.8	3882.8	3812.1	3787.1	3718.7	3743.7	3814.4	3798.5	3743.7	3488.4	3182.9
27.5°	4224.8	4170.1	4183.8	4069.8	4003.7	4074.3	4158.7	4238.5	4083.5	3748.3	3315.1
30°	4455.1	4398.1	4393.5	4389.0	4373.0	4455.1	4553.1	4626.1	4500.7	4008.2	3534.0
32.5°	4569.1	4582.8	4621.5	4607.9	4746.9	4915.7	5018.3	5123.1	4965.8	4432.3	3823.5
35°	4872.3	4785.7	4872.3	4881.5	5025.1	5383.1	5513.0	5763.8	5725.0	5031.9	4176.9
37.5°	5050.2	5043.3	5054.7	5141.4	5280.5	5722.8	5907.4	6101.2	6028.3	5392.2	4617.0
40°	5344.3	5362.5	5360.3	5426.4	5579.1	5978.1	6053.4	6210.7	6217.5	5891.5	5264.5
42.5°	5816.2	5743.3	5695.4	5763.8	5978.1	6199.3	6349.8	6317.8	6543.6	6498.0	6096.7
45°	6240.3	6283.6	6213.0	6327.0	6404.5	6523.0	6518.5	6586.9	6874.2	7090.8	6723.7
47.5°	6637.0	6664.4	6698.6	6776.1	6944.8	6963.1	6924.3	6894.7	7291.4	7514.8	7209.3
50°	6874.2	6899.2	7058.8	7197.9	7512.6	7553.6	7576.4	7501.2	7770.2	7795.3	7667.6
52.5°	6810.3	6837.7	7061.1	7519.4	8021.0	8397.2	8328.8	8201.1	8185.2	8283.2	8091.7
55°	6244.9	6219.8	6527.6	7241.2	8180.6	9083.5	9092.6	8958.1	8700.4	8634.3	8027.8
56°	5763.8	5665.8	6057.9	6919.8	7975.4	9024.2	9126.8	8983.2	8741.5	8445.1	7633.4
57.5°	4721.9	4815.3	5205.2	5918.8	7266.3	8597.8	8657.1	8622.9	8440.5	7943.5	6716.8
60°	2603.7	2767.9	3112.2	3985.4	5173.3	6598.3	6646.2	6924.3	6958.5	6083.0	4621.5
62.5°	1105.8	1087.6	1445.5	2088.5	2945.7	3983.1	4072.1	4357.1	4409.5	3506.6	2318.7
65°	449.2	474.2	654.4	1051.1	1557.2	1814.9	1940.3	2033.7	2207.0	1447.8	855.0
67.5°	296.4	294.1	385.3	599.6	839.0	809.4	809.4	855.0	791.2	590.5	369.4
70°	212.0	218.9	275.9	415.0	522.1	387.6	371.6	355.7	403.6	389.9	298.7
72.5°	139.1	148.2	184.7	248.5	271.3	212.0	212.0	255.4	332.9	314.6	244.0
75°	91.2	93.5	114.0	143.6	134.5	109.4	120.8	171.0	241.7	232.6	173.3
77.5°	61.6	63.8	77.5	93.5	75.2	61.6	66.1	86.6	118.6	118.6	91.2
80°	22.8	25.1	31.9	29.6	34.2	43.3	47.9	59.3	70.7	70.7	61.6
82.5°	0.0	2.3	6.8	16.0	25.1	34.2	38.8	45.6	52.4	59.3	57.0
85°	0.0	2.3	6.8	11.4	18.2	20.5	22.8	16.0	13.7	13.7	11.4
87.5°	0.0	0.0	2.3	2.3	2.3	2.3	2.3	2.3	4.6	2.3	2.3
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2391.7	2391.7	2391.7	2391.7	2391.7	2391.7	2391.7	2391.7	2391.7	2391.7	2391.7
2.5°	2391.7	2389.4	2389.4	2382.6	2396.3	2389.4	2394.0	2391.7	2362.1	2384.9	2368.9
5°	2416.8	2432.7	2407.7	2403.1	2384.9	2391.7	2391.7	2368.9	2389.4	2387.1	2382.6
7.5°	2480.6	2453.3	2425.9	2398.5	2394.0	2387.1	2362.1	2352.9	2368.9	2350.7	2378.0
10°	2508.0	2512.5	2471.5	2435.0	2400.8	2352.9	2318.7	2298.2	2273.1	2300.5	2316.5
12.5°	2633.4	2587.8	2517.1	2460.1	2343.8	2295.9	2261.7	2252.6	2295.9	2305.1	2289.1
15°	2676.7	2669.9	2578.7	2451.0	2330.1	2273.1	2280.0	2261.7	2266.3	2243.5	2248.1
17.5°	2765.6	2688.1	2580.9	2421.3	2327.9	2314.2	2273.1	2200.2	2159.1	2140.9	2156.9
20°	2863.7	2788.4	2633.4	2432.7	2348.4	2311.9	2177.4	2088.5	2004.1	1958.5	1960.8
22.5°	2950.3	2856.8	2610.6	2437.3	2366.6	2216.1	2054.3	1878.7	1773.8	1703.2	1705.4
25°	3055.2	2922.9	2619.7	2446.4	2318.7	2063.4	1830.8	1659.8	1534.4	1486.6	1502.5
27.5°	3114.5	2964.0	2669.9	2466.9	2193.3	1846.8	1596.0	1436.4	1363.4	1340.6	1338.4
30°	3292.3	3055.2	2731.4	2425.9	1983.6	1614.2	1381.7	1283.6	1213.0	1192.4	1197.0
32.5°	3556.8	3221.6	2811.2	2318.7	1769.3	1406.8	1242.6	1169.6	1103.5	1064.8	1060.2
35°	3777.9	3506.6	2895.6	2152.3	1520.8	1247.2	1144.6	1053.4	953.0	909.7	898.3
37.5°	4199.7	3828.1	2877.3	1901.5	1283.6	1128.6	1039.7	928.0	841.3	782.0	775.2
40°	4760.6	4204.3	2788.4	1596.0	1108.1	1023.7	928.0	820.8	713.6	663.5	658.9
42.5°	5442.3	4664.9	2626.5	1285.9	932.5	918.8	832.2	709.1	613.3	576.8	579.1
45°	5996.4	5059.3	2462.4	1032.8	802.6	816.2	741.0	624.7	558.6	529.0	529.0
47.5°	6488.8	5326.1	2284.5	852.7	681.7	713.6	647.5	579.1	522.1	499.3	494.8
50°	6963.1	5597.4	2106.7	690.8	581.4	613.3	606.5	551.8	506.2	478.8	481.1
52.5°	7259.5	5640.7	1881.0	565.4	508.4	544.9	567.7	517.6	467.4	451.4	446.9
55°	6897.0	5082.1	1459.2	465.1	430.9	478.8	522.1	465.1	426.4	399.0	396.7
56°	6409.0	4544.0	1219.8	428.6	408.1	460.6	506.2	444.6	401.3	385.3	373.9
57.5°	5426.4	3718.7	900.6	380.8	378.5	428.6	481.1	424.1	373.9	360.2	360.2
60°	3383.5	2093.0	544.9	319.2	328.3	380.8	433.2	378.5	332.9	332.9	339.7
62.5°	1541.3	871.0	330.6	271.3	282.7	328.3	385.3	342.0	316.9	342.0	346.6
65°	524.4	376.2	239.4	216.6	223.4	271.3	330.6	346.6	344.3	360.2	369.4
67.5°	294.1	241.7	200.6	180.1	175.6	200.6	271.3	346.6	332.9	326.0	330.6
70°	248.5	205.2	177.8	159.6	152.8	161.9	209.8	262.2	234.8	228.0	223.4
72.5°	200.6	171.0	155.0	143.6	123.1	104.9	95.8	100.3	111.7	118.6	130.0
75°	141.4	130.0	130.0	116.3	88.9	66.1	52.4	43.3	29.6	20.5	22.8
77.5°	79.8	79.8	82.1	70.7	57.0	43.3	31.9	22.8	11.4	4.6	2.3
80°	54.7	59.3	63.8	57.0	47.9	38.8	27.4	16.0	6.8	0.0	0.0
82.5°	54.7	61.6	66.1	57.0	47.9	36.5	27.4	16.0	6.8	2.3	0.0
85°	11.4	13.7	16.0	18.2	27.4	27.4	20.5	13.7	6.8	2.3	0.0
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)