

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: P527220

Luminaire Tested: **GALN-SA2B-727-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527220
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-727-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8096 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

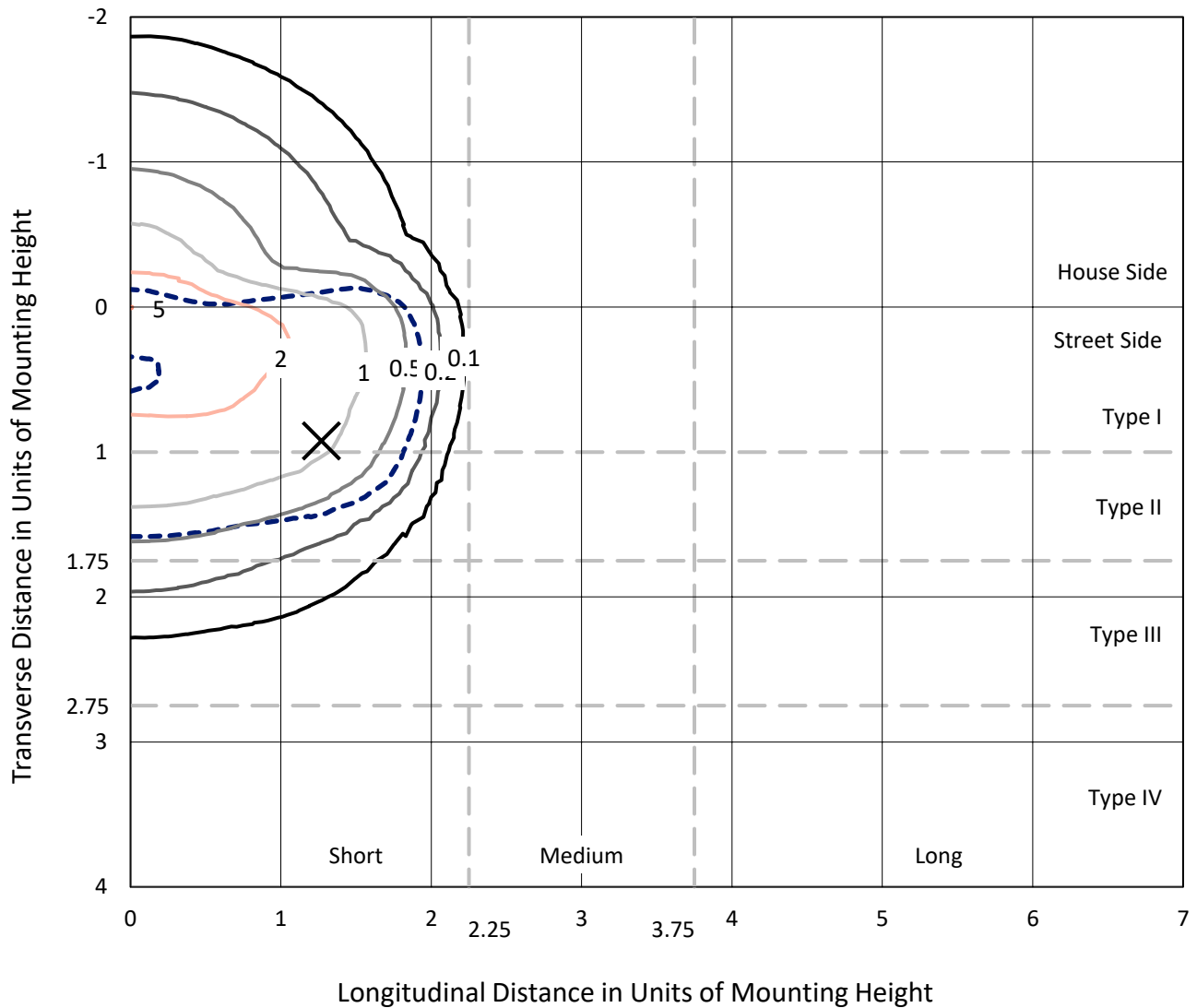
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

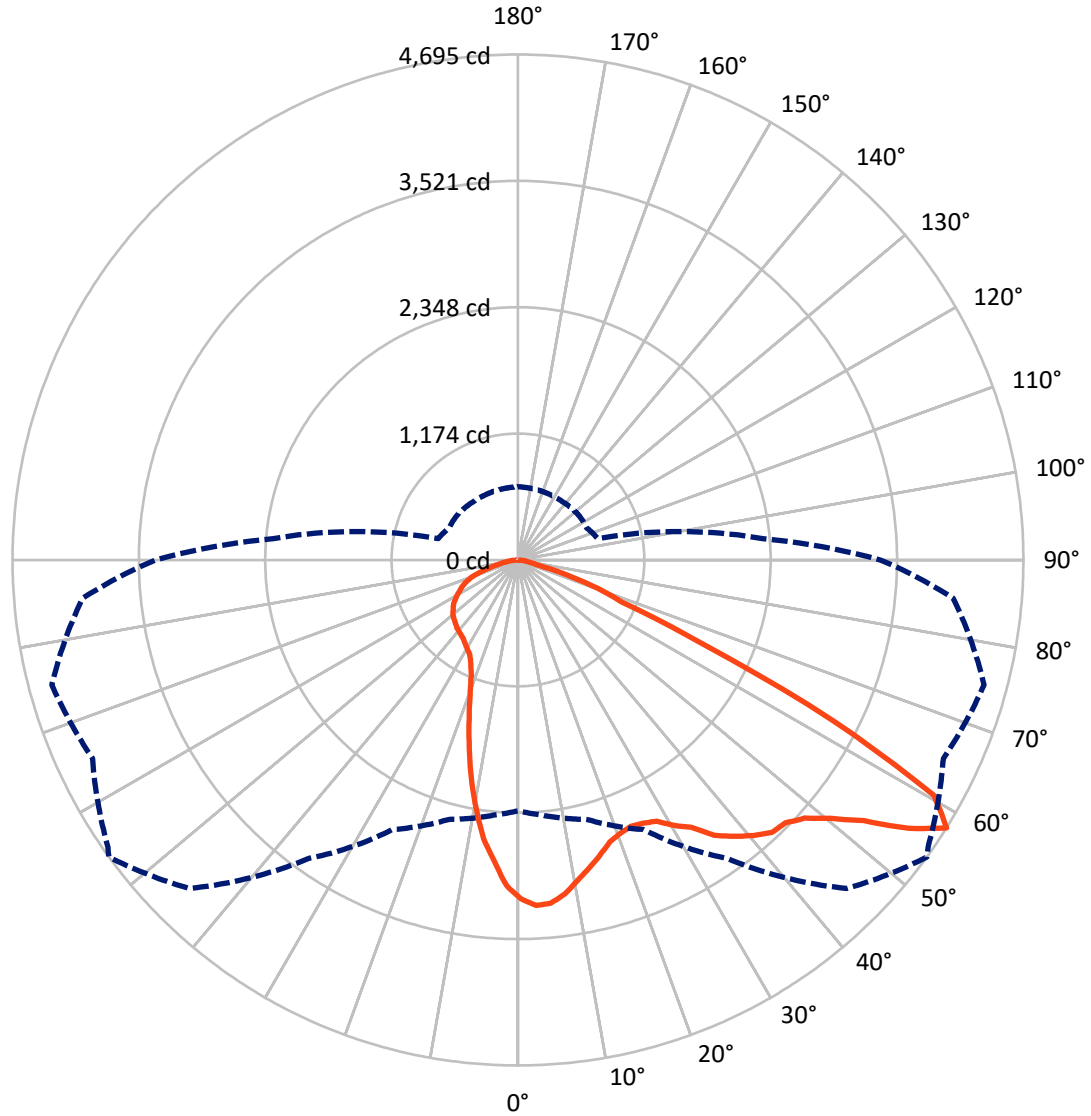
✕ Max cd
 - - - 1/2 Max cd



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 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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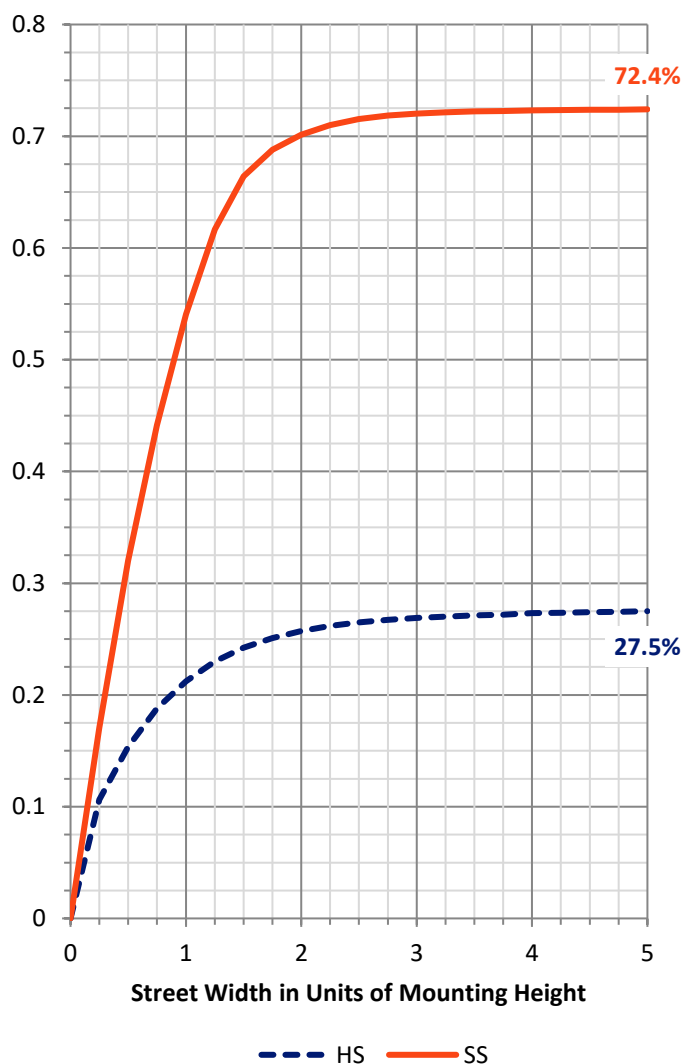
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2239.8	0.0	2239.8
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	5856.2	0.0	5856.2
	% Fixture	72.3	0.0	72.3
Total	Lumens	8096.0	0.0	8096.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.4	3.4
10°-20°	628.4	7.8
20°-30°	882.8	10.9
30°-40°	1234.2	15.2
40°-50°	1670.9	20.6
50°-60°	2035.2	25.1
60°-70°	1060.0	13.1
70°-80°	271.6	3.4
80°-90°	41.4	0.5
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°	8096.0	100.0
0°-180°	8096.0	100.0

Coefficient of Utilization

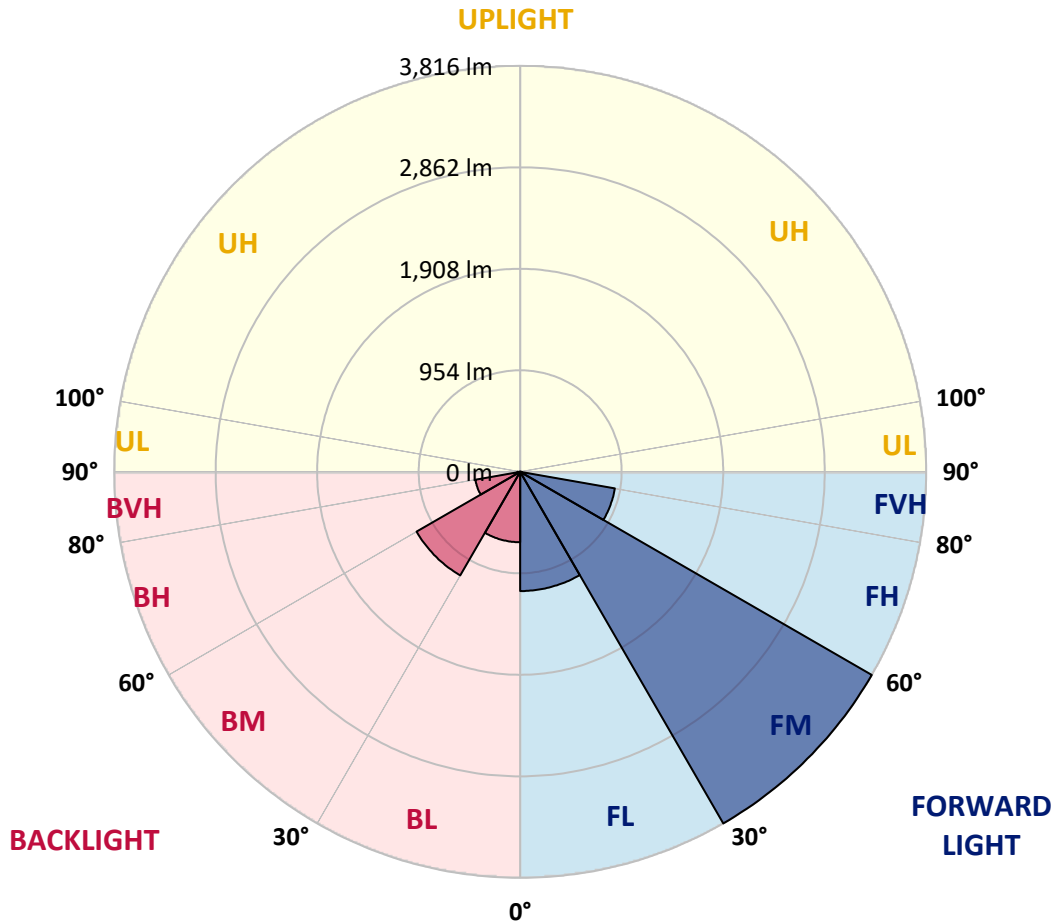


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1120.6	13.8			
FM (30°-60°)	3816.2	47.1			
FH (60°-80°)	903.7	11.2			G1/1800
FVH (80°-90°)	15.7	0.2			G1/100
BL (0°-30°)	662.0	8.2	B2/1000		
BM (30°-60°)	1124.1	13.9	B2/2500		
BH (60°-80°)	427.9	5.3	B1/500		G1/500
BVH (80°-90°)	25.8	0.3			G1/100
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°	54°	55°	65°	75°	85°
0°	3146.8	3146.8	3146.8	3146.8	3146.8	3146.8	3146.8	3146.8	3146.8	3146.8	3146.8
2.5°	3236.3	3223.8	3225.9	3242.6	3221.7	3213.4	3213.4	3172.8	3176.0	3147.9	3140.6
5°	3161.4	3132.3	3152.0	3177.0	3181.2	3189.5	3203.0	3192.6	3163.5	3133.3	3084.4
7.5°	2965.8	2991.8	2999.1	3016.7	3054.2	3088.5	3131.2	3102.1	3101.0	3070.9	3041.7
10°	2794.1	2778.4	2818.0	2844.0	2906.4	2963.7	3029.2	3026.1	3041.7	3007.4	2957.4
12.5°	2623.4	2610.9	2629.6	2689.0	2776.4	2859.6	2937.7	2908.5	2991.8	2985.5	2878.3
15°	2442.3	2451.7	2478.7	2533.9	2648.4	2748.3	2847.1	2848.2	2922.0	2947.0	2803.4
17.5°	2315.4	2305.0	2339.3	2421.5	2523.5	2643.2	2755.6	2778.4	2891.9	2906.4	2780.5
20°	2220.7	2235.2	2280.0	2321.6	2439.2	2583.8	2710.8	2719.1	2885.6	2925.2	2744.1
22.5°	2197.8	2189.5	2204.0	2271.7	2368.4	2525.6	2686.9	2718.1	2884.6	2918.9	2675.4
25°	2173.8	2200.9	2199.9	2267.5	2338.3	2478.7	2706.6	2741.0	2939.7	2951.2	2684.8
27.5°	2228.0	2224.8	2254.0	2259.2	2346.6	2491.2	2748.3	2774.3	3031.3	3021.9	2692.1
30°	2282.1	2266.5	2284.2	2345.5	2386.1	2563.0	2862.7	2860.7	3149.9	3143.7	2715.0
32.5°	2348.7	2341.4	2352.8	2406.9	2475.6	2658.8	2959.5	3020.9	3270.7	3310.2	2794.1
35°	2361.2	2391.3	2418.4	2491.2	2589.1	2813.8	3141.6	3192.6	3410.1	3533.9	2944.9
37.5°	2440.2	2451.7	2515.2	2644.2	2733.7	3020.9	3257.1	3289.4	3537.1	3677.5	3104.2
40°	2524.5	2538.1	2633.8	2769.1	2891.9	3156.2	3365.4	3375.8	3577.6	3787.8	3208.2
42.5°	2639.0	2651.5	2746.2	2915.8	3080.2	3271.7	3461.1	3472.5	3574.5	3914.8	3373.7
45°	2757.6	2787.8	2899.2	3091.7	3239.4	3407.0	3482.9	3529.8	3603.7	4028.2	3507.9
47.5°	2924.1	2952.2	3043.8	3232.2	3404.9	3525.6	3583.9	3629.7	3673.4	4127.1	3594.3
50°	3101.0	3106.2	3217.6	3388.2	3515.2	3659.8	3772.2	3787.8	3764.9	4241.6	3741.0
52.5°	3231.1	3247.8	3334.1	3500.6	3690.0	3868.0	4022.0	4038.6	3993.9	4284.2	3791.0
55°	3015.7	3006.3	3146.8	3368.5	3807.6	4178.1	4401.8	4414.3	4160.4	4416.4	3954.3
57.5°	2331.0	2375.7	2495.4	2762.8	3383.0	4315.4	4695.3	4650.5	4360.2	4483.0	4058.4
60°	1694.1	1683.7	1763.8	1942.8	2549.5	3719.2	4439.3	4485.1	4196.8	4040.7	3346.6
62.5°	1379.9	1365.3	1371.5	1377.8	1645.2	2468.3	3286.3	3285.2	3232.2	2904.4	2257.1
65°	1103.1	1137.4	1140.5	1187.3	1221.7	1474.6	1904.3	2006.3	1747.2	1432.9	1039.6
67.5°	831.5	819.0	860.6	1027.1	1091.6	1064.6	1039.6	1051.0	747.2	539.0	507.8
70°	490.1	484.9	534.9	715.9	899.1	846.0	783.6	784.6	513.0	376.7	419.4
72.5°	268.5	267.4	277.8	363.2	510.9	530.7	470.4	484.9	305.9	304.9	327.8
75°	149.8	146.7	143.6	160.3	184.2	194.6	198.8	200.8	210.2	235.2	244.5
77.5°	55.2	53.1	53.1	61.4	78.0	97.8	123.8	125.9	148.8	170.7	180.0
80°	18.7	20.8	28.1	38.5	52.0	69.7	84.3	86.4	105.1	119.7	122.8
82.5°	11.4	12.5	18.7	27.1	37.5	48.9	62.4	63.5	78.0	87.4	91.6
85°	5.2	6.2	10.4	16.6	23.9	32.3	33.3	33.3	32.3	33.3	31.2
87.5°	0.0	0.0	2.1	2.1	2.1	3.1	4.2	3.1	5.2	6.2	6.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3146.8	3146.8	3146.8	3146.8	3146.8	3146.8	3146.8	3146.8	3146.8	3146.8	3146.8
2.5°	3118.7	3107.3	3071.9	3040.7	3031.3	2989.7	2928.3	2935.6	2890.8	2911.6	2889.8
5°	3076.1	3037.6	2947.0	2908.5	2807.6	2761.8	2730.6	2652.5	2616.1	2608.8	2577.6
7.5°	2966.8	2942.9	2829.4	2725.4	2618.2	2526.6	2409.0	2328.9	2271.7	2256.1	2210.3
10°	2880.4	2827.4	2670.2	2512.0	2359.1	2199.9	2046.9	1927.2	1868.9	1801.3	1778.4
12.5°	2795.1	2715.0	2502.7	2299.8	2102.0	1901.2	1716.0	1570.3	1443.3	1413.2	1402.8
15°	2742.0	2602.6	2352.8	2108.3	1827.3	1565.1	1379.9	1284.1	1206.1	1173.8	1196.7
17.5°	2672.3	2510.0	2209.2	1883.5	1574.5	1333.0	1178.0	1118.7	1090.6	1093.7	1084.3
20°	2584.9	2422.6	2020.9	1679.6	1348.6	1156.1	1067.7	1045.8	1050.0	1057.3	1054.1
22.5°	2522.5	2316.4	1884.6	1471.4	1165.5	1058.3	1021.9	1006.3	1019.8	1026.0	1020.8
25°	2474.6	2225.9	1719.1	1287.2	1059.3	1003.2	986.5	985.5	1006.3	1014.6	1009.4
27.5°	2430.9	2141.6	1554.7	1146.8	988.6	960.5	955.3	967.8	981.3	989.6	996.9
30°	2404.9	2077.1	1400.7	1029.2	953.2	939.7	930.3	941.8	949.0	957.4	953.2
32.5°	2429.8	2031.3	1251.9	962.6	924.1	910.5	923.0	915.7	928.2	935.5	924.1
35°	2507.9	1990.7	1145.7	927.2	890.8	896.0	898.1	894.9	900.1	893.9	907.4
37.5°	2584.9	1976.1	1047.9	897.0	875.2	875.2	873.1	866.8	877.2	875.2	881.4
40°	2682.7	1985.5	964.7	864.8	860.6	858.5	850.2	849.1	845.0	846.0	848.1
42.5°	2768.0	2006.3	916.8	843.9	847.1	851.2	835.6	823.1	828.3	817.9	817.9
45°	2858.6	2025.0	874.1	829.4	826.2	825.2	812.7	805.4	801.3	802.3	811.7
47.5°	3001.1	2052.1	841.9	809.6	811.7	796.1	792.9	783.6	787.7	794.0	795.0
50°	3102.1	2109.3	816.9	786.7	794.0	783.6	764.9	760.7	760.7	771.1	769.0
52.5°	3172.8	2189.5	792.9	761.7	764.9	756.5	750.3	740.9	734.7	749.2	756.5
55°	3389.3	2322.7	786.7	740.9	739.9	731.6	720.1	710.7	707.6	709.7	724.3
57.5°	3368.5	2281.0	766.9	704.5	702.4	691.0	679.5	676.4	675.4	677.4	681.6
60°	2734.7	1684.8	684.7	662.9	659.8	657.7	646.2	633.7	627.5	633.7	628.5
62.5°	1809.6	1128.0	603.6	612.9	615.0	609.8	591.1	578.6	580.7	587.9	576.5
65°	888.7	662.9	547.4	572.3	574.4	559.9	542.2	527.6	520.3	526.6	521.3
67.5°	507.8	506.8	501.6	527.6	526.6	512.0	483.9	471.4	458.9	461.0	457.9
70°	430.8	439.1	449.5	465.2	464.1	447.5	414.2	404.8	387.1	385.0	379.8
72.5°	339.2	353.8	376.7	388.1	378.8	358.0	336.1	320.5	304.9	295.5	298.7
75°	251.8	272.6	285.1	292.4	277.8	266.4	248.7	230.0	211.2	202.9	199.8
77.5°	183.1	189.4	200.8	206.0	196.7	185.2	174.8	156.1	138.4	127.0	123.8
80°	128.0	132.2	140.5	140.5	140.5	135.3	121.8	103.0	91.6	81.2	79.1
82.5°	89.5	93.7	102.0	97.8	96.8	90.5	82.2	67.6	55.2	47.9	45.8
85°	31.2	34.3	41.6	49.9	53.1	52.0	46.8	37.5	29.1	23.9	21.9
87.5°	7.3	7.3	8.3	7.3	7.3	8.3	7.3	7.3	7.3	5.2	4.2
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)