

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: P527842

Luminaire Tested: **GALN-SA2D-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527842
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-827-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9693 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

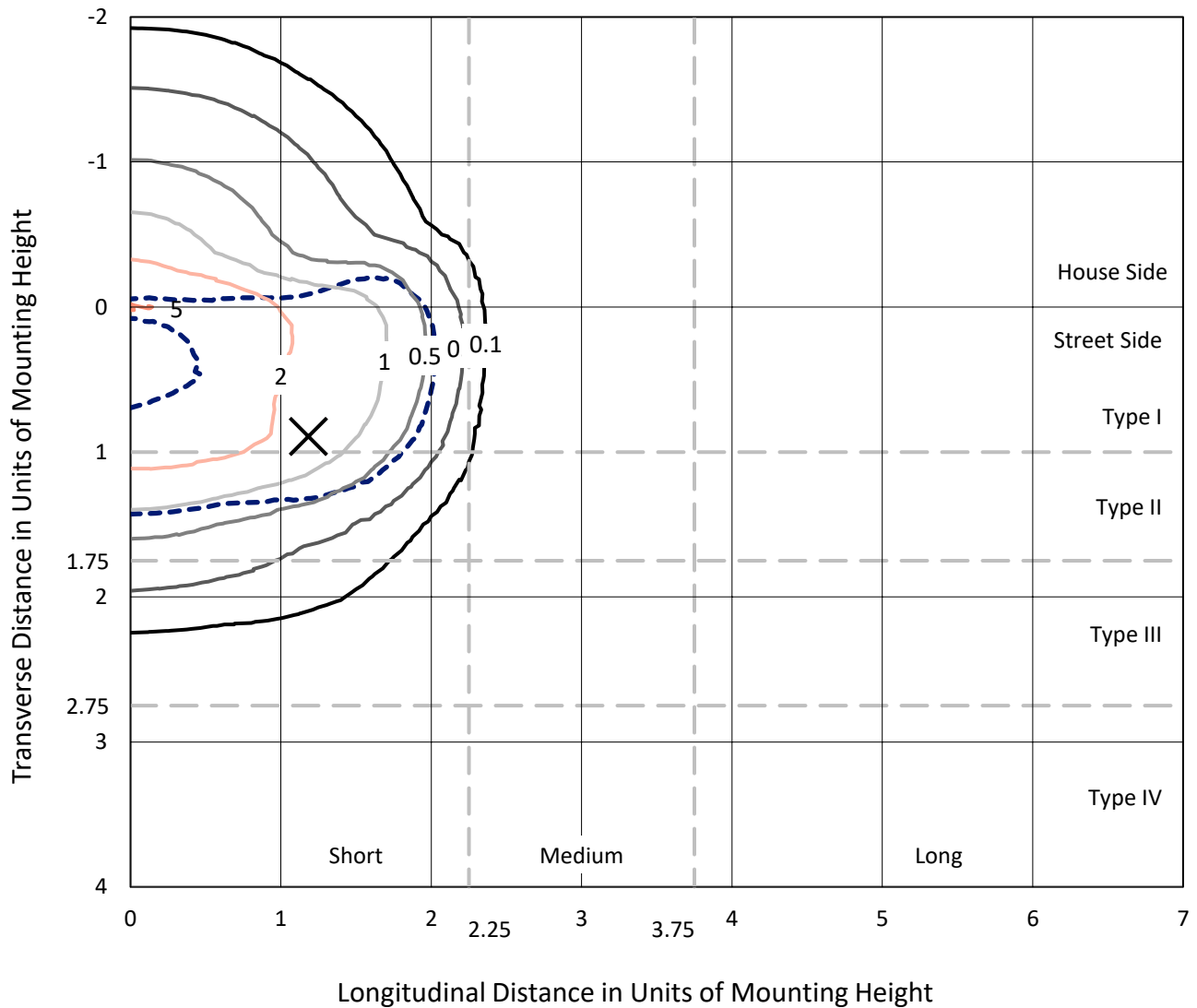
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

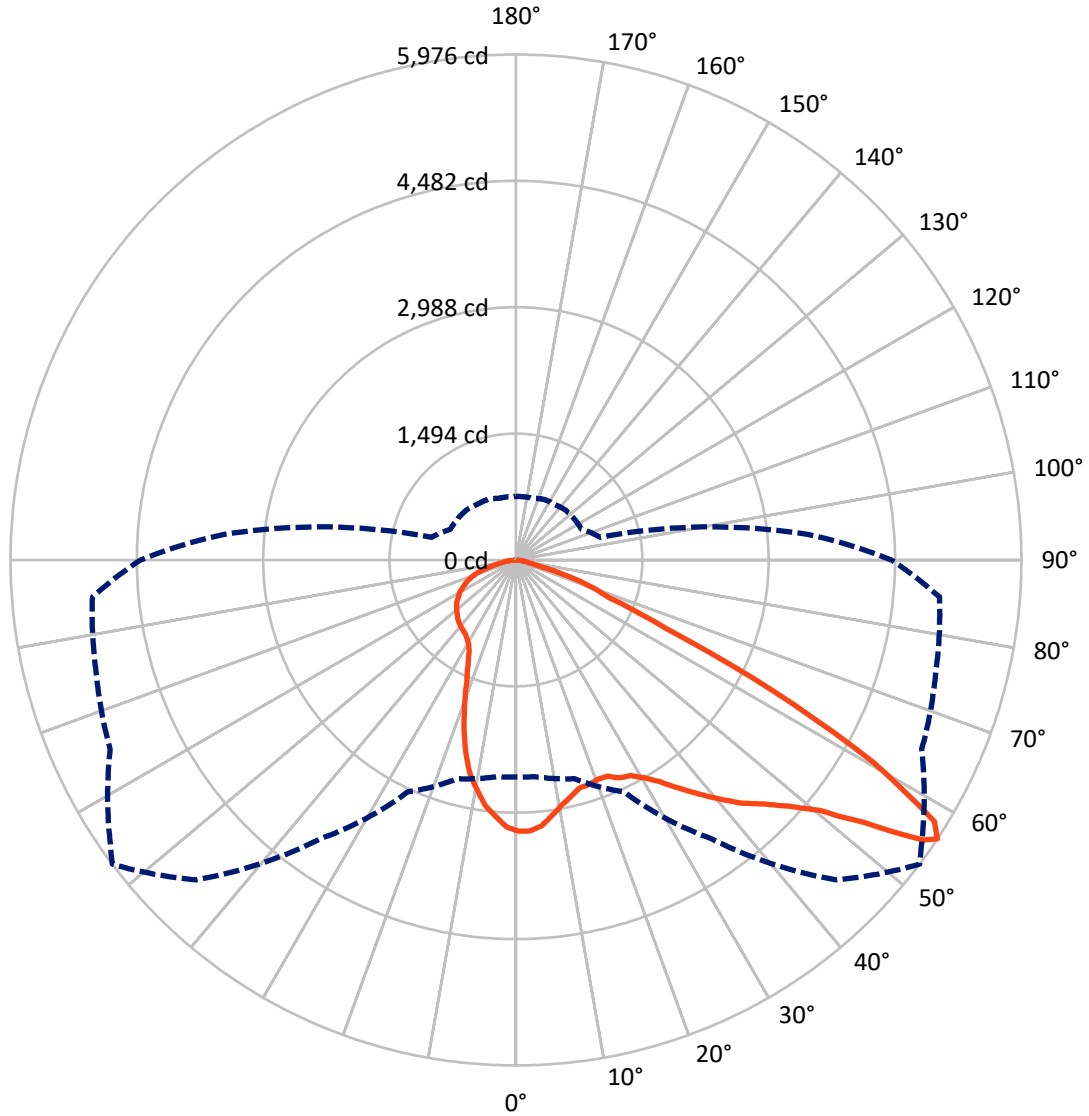
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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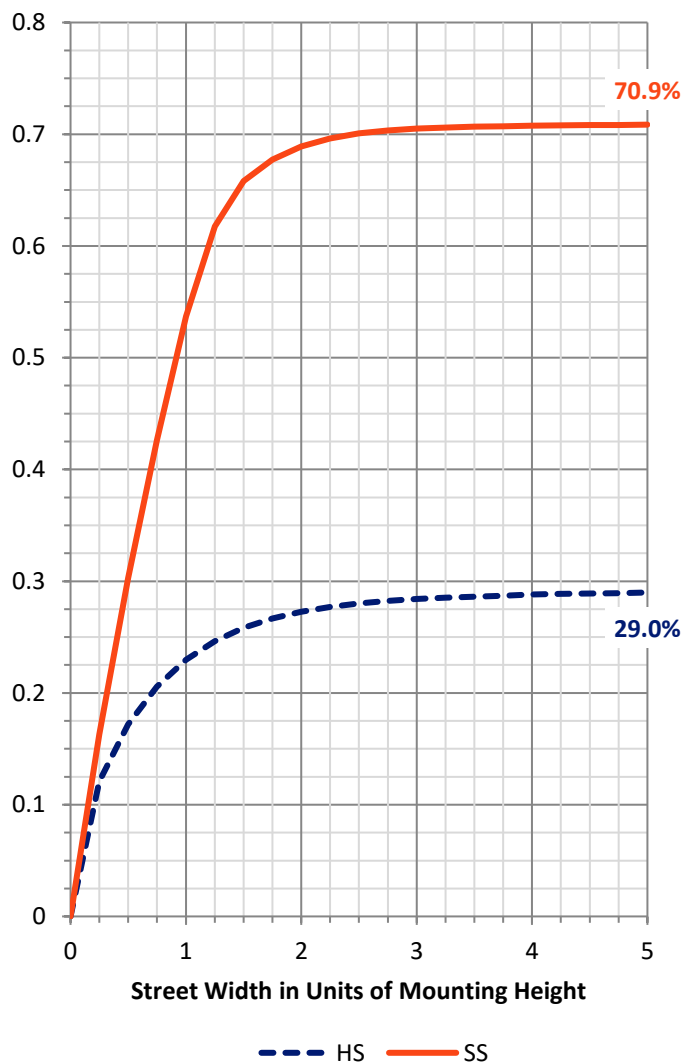
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2828.6	0.0	2828.6
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	6864.4	0.0	6864.4
	% Fixture	70.8	0.0	70.8
Total	Lumens	9693.0	0.0	9693.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.9	2.9
10°-20°	709.0	7.3
20°-30°	1045.6	10.8
30°-40°	1493.9	15.4
40°-50°	2056.1	21.2
50°-60°	2429.8	25.1
60°-70°	1294.9	13.4
70°-80°	328.5	3.4
80°-90°	51.2	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°	9693.0	100.0
0°-180°	9693.0	100.0

Coefficient of Utilization



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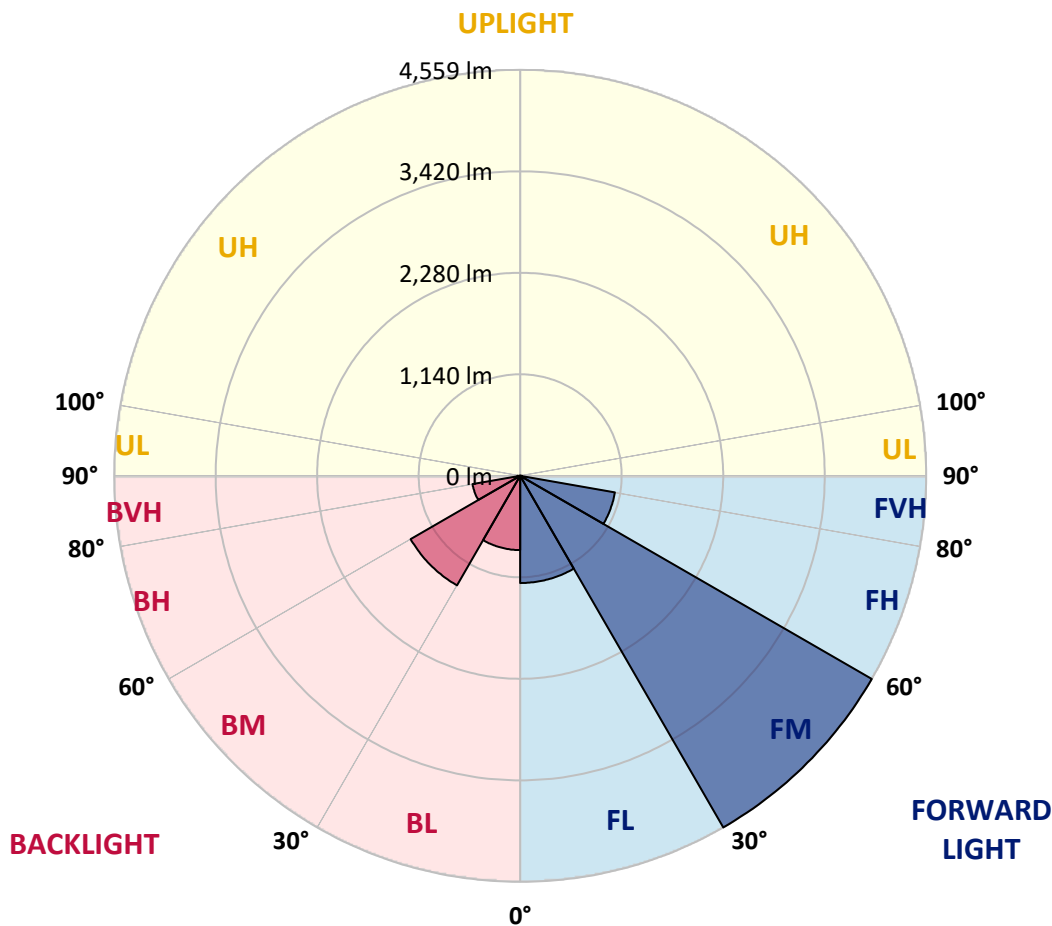
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1204.2	12.4			
FM (30°-60°)	4559.4	47.0			
FH (60°-80°)	1080.2	11.1			G1/1800
FVH (80°-90°)	20.6	0.2			G1/100
BL (0°-30°)	834.3	8.6	B2/1000		
BM (30°-60°)	1420.4	14.7	B2/2500		
BH (60°-80°)	543.3	5.6	B2/1000		G2/1000
BVH (80°-90°)	30.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3206.8	3206.8	3206.8	3206.8	3206.8	3206.8	3206.8	3206.8	3206.8	3206.8	3206.8
2.5°	3167.0	3139.7	3155.8	3149.6	3200.6	3215.5	3208.1	3214.3	3242.9	3229.2	3200.6
5°	2959.4	2997.9	3005.4	3024.0	3053.9	3112.3	3158.3	3170.8	3184.4	3247.9	3241.6
7.5°	2770.4	2796.5	2782.8	2837.5	2902.2	2996.7	3052.6	3062.6	3188.2	3223.0	3249.1
10°	2651.0	2624.9	2687.1	2702.0	2775.4	2883.5	2950.7	2991.7	3106.1	3244.1	3260.3
12.5°	2540.3	2531.6	2568.9	2611.2	2693.3	2805.2	2873.6	2889.7	3066.3	3211.8	3287.6
15°	2458.3	2448.3	2485.6	2516.7	2612.5	2711.9	2799.0	2845.0	3022.8	3193.1	3264.0
17.5°	2393.6	2392.4	2413.5	2469.5	2567.7	2651.0	2791.5	2794.0	3000.4	3221.7	3283.9
20°	2389.9	2388.6	2392.4	2454.5	2544.1	2646.0	2767.9	2790.3	3000.4	3201.9	3285.2
22.5°	2421.0	2401.1	2423.5	2463.3	2527.9	2654.7	2776.6	2826.3	3072.5	3300.1	3341.1
25°	2470.7	2475.7	2488.1	2501.8	2539.1	2674.6	2853.7	2894.7	3157.1	3384.6	3418.2
27.5°	2561.5	2559.0	2564.0	2571.4	2603.8	2693.3	2884.8	2990.5	3333.7	3535.1	3501.5
30°	2694.5	2685.8	2705.7	2731.8	2702.0	2753.0	2988.0	3067.6	3497.8	3686.8	3594.8
32.5°	2815.1	2847.5	2884.8	2896.0	2859.9	2869.9	3124.8	3205.6	3634.6	3873.3	3709.2
35°	2965.6	2991.7	3041.4	3076.3	3070.0	3040.2	3311.3	3418.2	3832.3	4010.1	3829.8
37.5°	3112.3	3143.4	3225.5	3328.7	3271.5	3257.8	3510.2	3598.5	3893.2	4083.5	3918.1
40°	3348.6	3347.3	3489.1	3542.6	3593.5	3569.9	3716.6	3746.5	3925.5	4067.3	3920.6
42.5°	3625.9	3608.5	3752.7	3836.0	3901.9	3904.4	3931.8	3921.8	3940.5	3985.2	3894.4
45°	3889.5	3926.8	4072.3	4221.5	4287.4	4294.8	4113.3	4094.6	3966.6	3961.6	3844.7
47.5°	4211.5	4220.2	4339.6	4536.1	4689.0	4636.8	4348.3	4307.3	4081.0	4119.5	3928.0
50°	4230.2	4294.8	4401.8	4633.0	5103.1	5089.4	4652.9	4575.9	4265.0	4343.3	4160.5
52.5°	3839.7	3824.8	3951.6	4329.7	5072.0	5539.5	5157.8	4973.8	4660.4	4600.7	4537.3
55°	2925.8	2960.6	3072.5	3454.3	4404.3	5545.7	5845.4	5694.9	5083.2	4981.2	4907.8
56°	2566.5	2571.4	2677.1	3025.3	4018.8	5348.0	5976.0	5854.1	5293.3	5137.9	5026.0
57.5°	2127.5	2098.9	2153.6	2343.9	3392.1	4930.2	5833.0	5952.3	5539.5	5307.0	5151.6
60°	1674.9	1668.7	1646.3	1681.1	2143.7	3714.1	4855.6	5124.2	5514.6	5147.8	4934.0
62.5°	1367.8	1336.7	1381.5	1431.2	1489.6	2304.1	3412.0	3569.9	4378.1	4109.6	3706.7
65°	1060.7	1045.7	1101.7	1263.3	1298.1	1463.5	1943.5	2065.4	2585.1	2539.1	2235.7
67.5°	729.9	732.4	780.9	1027.1	1203.6	1188.7	1190.0	1253.4	1349.1	1002.2	872.9
70°	462.6	461.3	487.4	661.5	968.6	978.6	928.8	910.2	862.9	522.2	553.3
72.5°	297.2	288.5	302.2	365.6	501.1	579.4	596.9	608.0	499.9	410.3	445.2
75°	167.9	159.2	154.2	170.4	197.7	228.8	251.2	258.6	289.7	310.9	329.5
77.5°	51.0	46.0	56.0	74.6	98.2	131.8	160.4	165.4	195.2	220.1	238.7
80°	22.4	24.9	34.8	49.7	69.6	93.3	113.2	120.6	140.5	159.2	164.1
82.5°	13.7	14.9	23.6	33.6	48.5	65.9	80.8	83.3	103.2	118.1	121.9
85°	5.0	6.2	12.4	19.9	31.1	42.3	42.3	46.0	42.3	42.3	46.0
87.5°	0.0	0.0	1.2	2.5	2.5	3.7	5.0	5.0	6.2	7.5	8.7
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°	3206.8	3206.8	3206.8	3206.8	3206.8	3206.8	3206.8	3206.8	3206.8	3206.8	3206.8
2.5°	3215.5	3209.3	3199.4	3163.3	3159.6	3148.4	3086.2	3076.3	3086.2	3056.4	3058.9
5°	3209.3	3228.0	3153.4	3117.3	3050.2	3001.7	2945.7	2917.1	2866.1	2833.8	2869.9
7.5°	3236.7	3229.2	3136.0	3057.6	2956.9	2833.8	2735.6	2679.6	2590.1	2565.2	2583.9
10°	3226.7	3186.9	3077.5	2974.3	2784.1	2675.9	2516.7	2362.5	2278.0	2234.5	2228.2
12.5°	3213.0	3201.9	3019.1	2841.3	2641.1	2413.5	2189.7	2044.2	1906.2	1846.5	1855.2
15°	3229.2	3134.7	2909.6	2684.6	2418.5	2120.1	1878.8	1691.1	1595.3	1556.8	1556.8
17.5°	3221.7	3102.4	2857.4	2509.3	2172.3	1819.1	1554.3	1441.1	1401.4	1401.4	1412.5
20°	3225.5	3123.5	2751.7	2333.9	1881.3	1531.9	1339.2	1298.1	1315.6	1321.8	1328.0
22.5°	3246.6	3053.9	2648.5	2141.2	1611.5	1310.6	1216.1	1217.3	1248.4	1282.0	1275.8
25°	3272.7	3026.5	2522.9	1949.7	1405.1	1202.4	1172.6	1168.8	1192.5	1209.9	1212.4
27.5°	3250.3	2979.3	2394.9	1711.0	1236.0	1130.3	1124.1	1126.6	1134.0	1168.8	1157.6
30°	3323.7	2993.0	2234.5	1510.8	1142.7	1106.7	1099.2	1095.5	1106.7	1116.6	1107.9
32.5°	3414.5	2944.5	2115.1	1318.0	1096.7	1089.3	1074.3	1069.4	1075.6	1065.6	1070.6
35°	3454.3	2935.8	1959.7	1180.0	1060.7	1054.4	1045.7	1044.5	1045.7	1037.0	1029.6
37.5°	3476.7	2976.8	1781.8	1116.6	1038.3	1044.5	1024.6	1022.1	999.7	1004.7	1008.4
40°	3515.2	2913.4	1637.6	1055.7	1024.6	1012.2	994.8	991.0	976.1	967.4	976.1
42.5°	3459.2	2894.7	1495.9	1029.6	1004.7	991.0	978.6	957.4	952.5	945.0	940.0
45°	3414.5	2787.8	1369.0	997.2	981.1	973.6	950.0	927.6	909.0	916.4	905.2
47.5°	3448.1	2750.5	1243.4	969.9	948.7	940.0	916.4	899.0	880.4	871.6	869.2
50°	3582.3	2820.1	1137.7	950.0	921.4	916.4	885.3	865.4	848.0	841.8	844.3
52.5°	3903.2	3010.4	1065.6	909.0	895.3	872.9	855.5	830.6	819.4	799.5	812.0
55°	4309.8	3320.0	1047.0	870.4	862.9	843.1	819.4	800.8	779.6	763.5	759.7
56°	4440.3	3467.9	1032.1	855.5	843.1	831.9	800.8	789.6	756.0	752.3	749.8
57.5°	4546.0	3598.5	1034.5	826.9	814.5	804.5	785.9	758.5	736.1	722.4	728.7
60°	4307.3	3368.5	987.3	783.4	780.9	762.2	736.1	723.7	696.3	680.2	676.4
62.5°	3201.9	2286.7	800.8	727.4	726.2	706.3	676.4	662.8	657.8	635.4	635.4
65°	1844.0	1433.7	692.6	681.4	671.5	651.6	621.7	610.5	598.1	590.6	584.4
67.5°	787.1	743.6	629.2	627.9	616.7	591.9	562.0	544.6	528.5	513.5	521.0
70°	570.7	579.4	568.3	562.0	548.4	517.3	491.2	470.0	445.2	435.2	442.7
72.5°	452.6	471.3	487.4	488.7	472.5	436.4	407.8	379.2	351.9	338.2	344.4
75°	343.2	355.6	371.8	375.5	351.9	327.0	299.7	269.8	248.7	232.5	235.0
77.5°	247.4	245.0	259.9	257.4	246.2	228.8	203.9	176.6	152.9	138.0	139.3
80°	169.1	172.8	181.5	180.3	166.6	155.4	136.8	114.4	97.0	84.6	82.1
82.5°	118.1	124.3	131.8	125.6	114.4	103.2	89.5	73.4	59.7	49.7	47.3
85°	42.3	48.5	56.0	59.7	63.4	60.9	51.0	41.0	29.8	24.9	23.6
87.5°	8.7	9.9	11.2	11.2	11.2	9.9	8.7	8.7	7.5	3.7	3.7
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)