

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: P528076

Luminaire Tested: **GALN-SA3A-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528076  
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-SA3A-827-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 615mA 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: 8506 lumens  
Efficiency: N/A  
Efficacy: 91.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

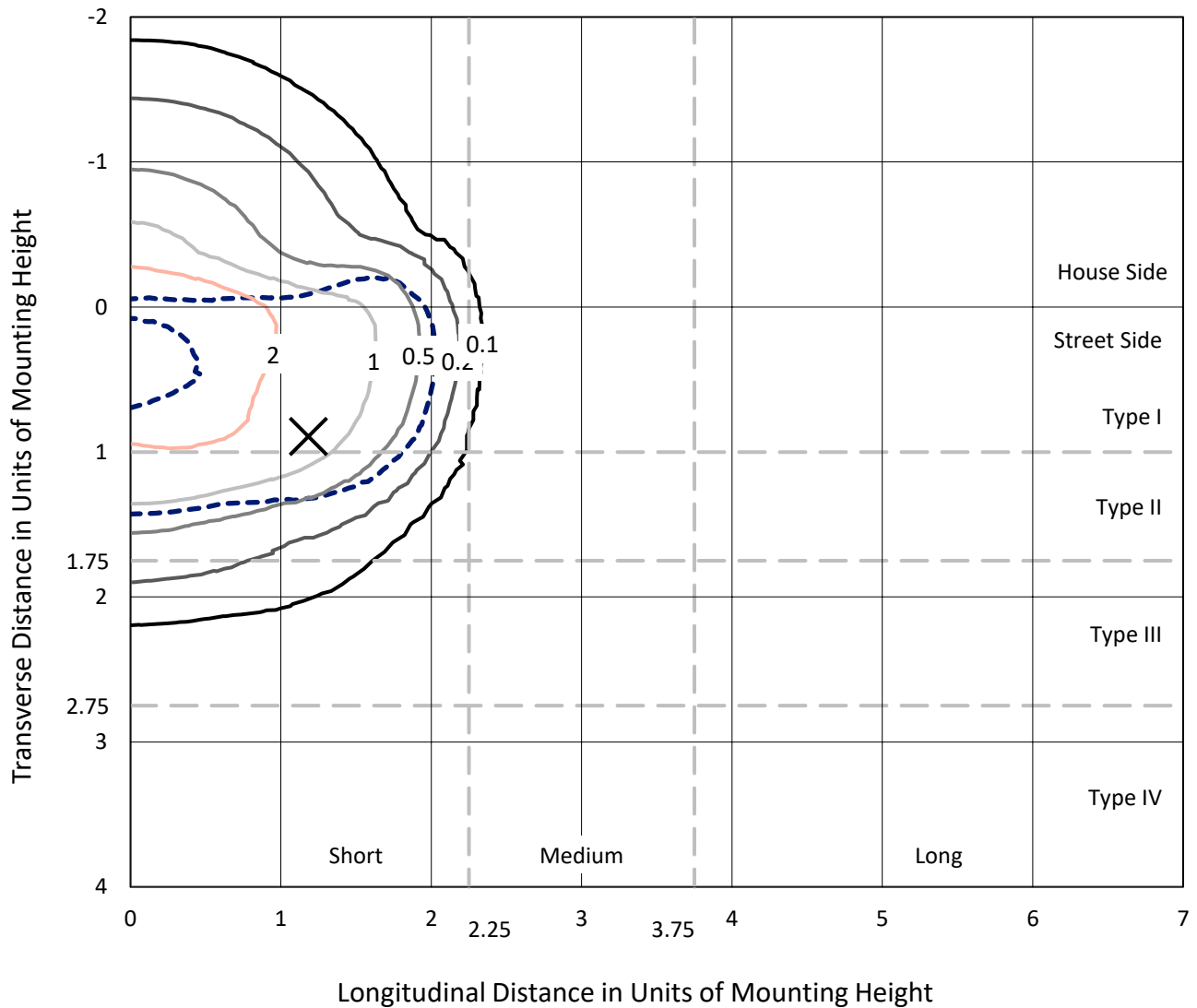
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P528076  
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### Iso-Footcandle Lines of Horizontal Illumination

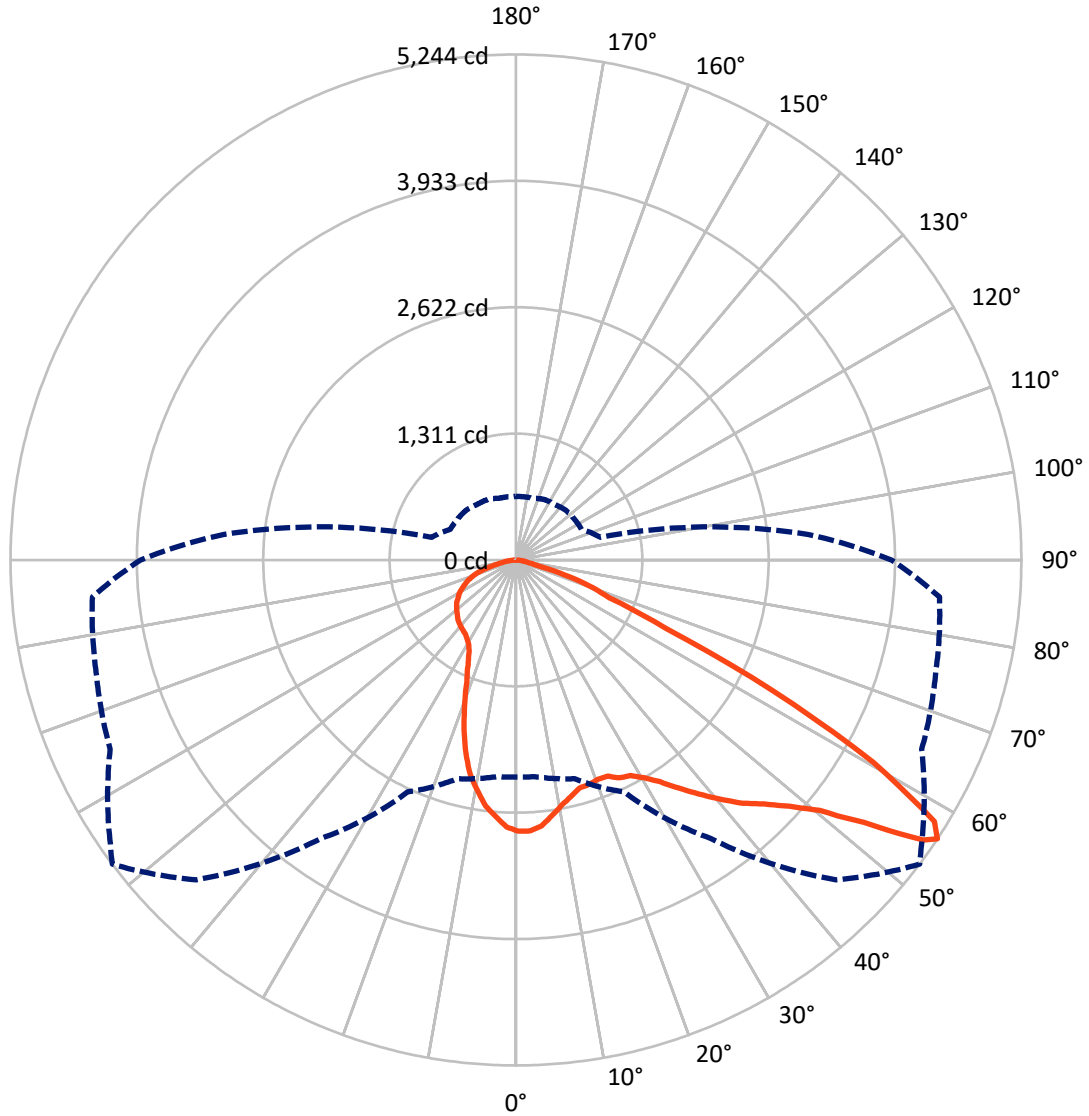
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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 CATALOG NUMBER: GALN-SA3A-827-U-SL2-GRSWH

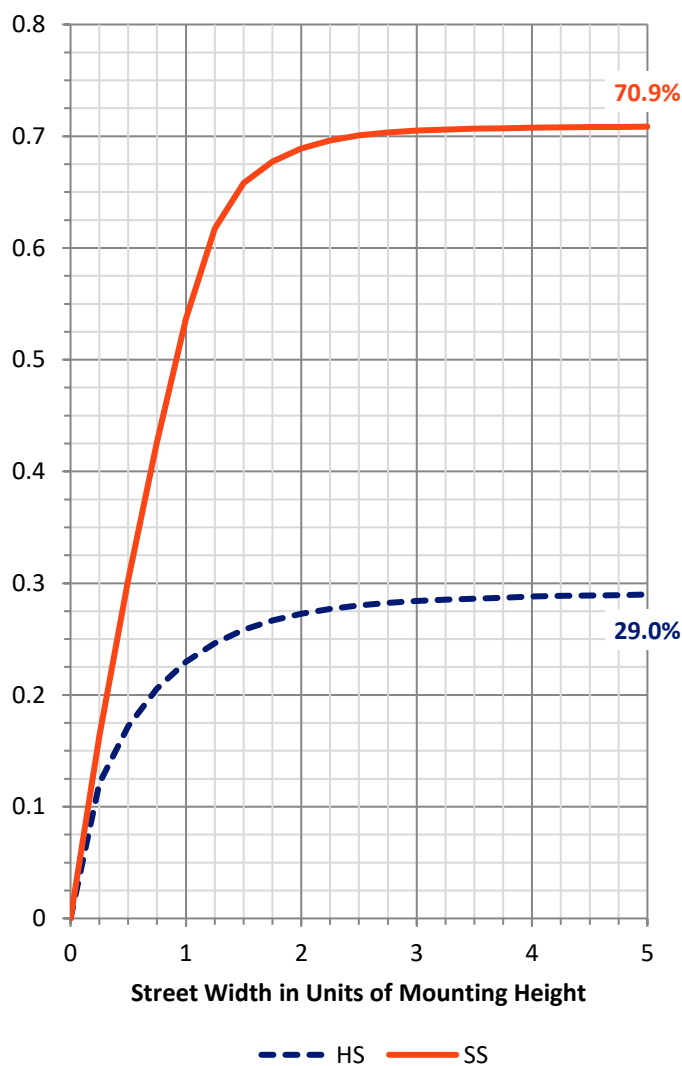
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2482.2	0.0	2482.2
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	6023.8	0.0	6023.8
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	8506.0	0.0	8506.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	249.1	2.9
10°-20°	622.2	7.3
20°-30°	917.5	10.8
30°-40°	1311.0	15.4
40°-50°	1804.3	21.2
50°-60°	2132.3	25.1
60°-70°	1136.3	13.4
70°-80°	288.3	3.4
80°-90°	45.0	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°	8506.0	100.0
0°-180°	8506.0	100.0

**Coefficient of Utilization**



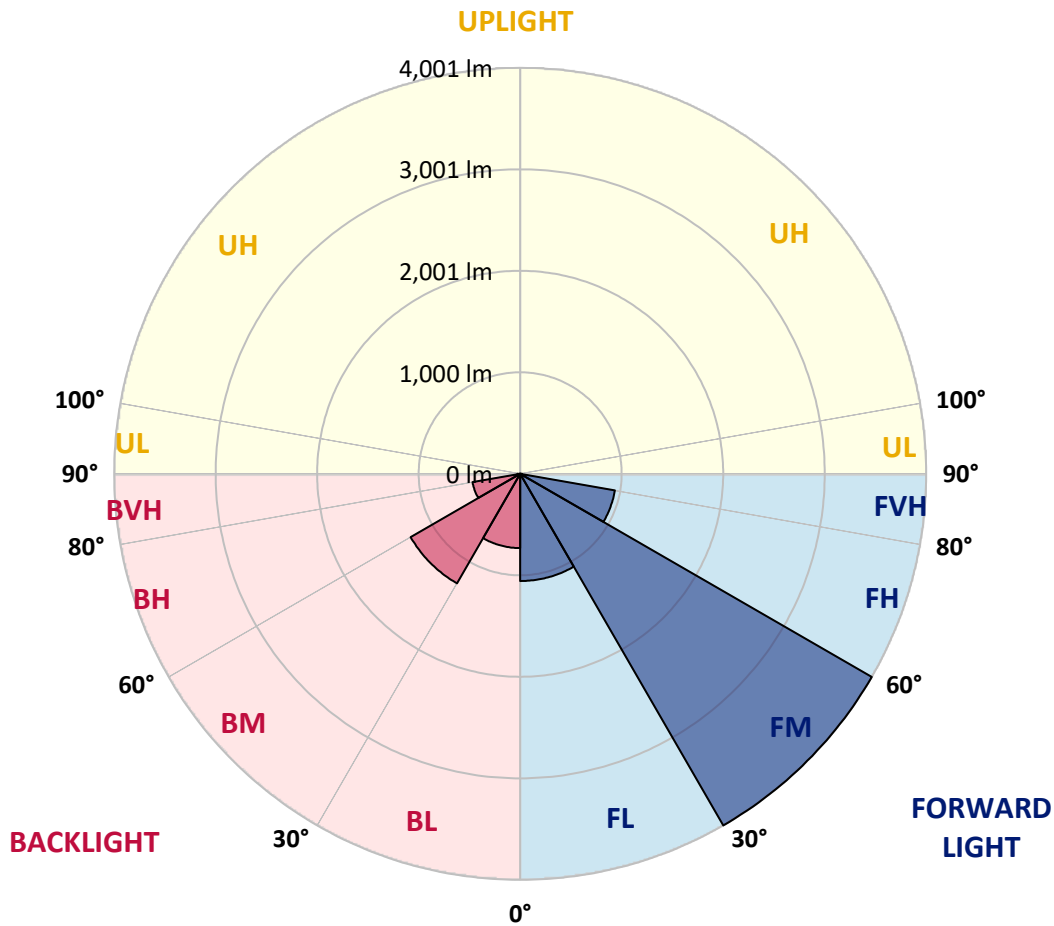
REPORT NUMBER: P528076  
 CATALOG NUMBER: GALN-SA3A-827-U-SL2-GRSWH

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1056.7	12.4			
FM (30°-60°)	4001.1	47.0			
FH (60°-80°)	947.9	11.1			G1/1800
FVH (80°-90°)	18.1	0.2			G1/100
BL (0°-30°)	732.1	8.6	B2/1000		
BM (30°-60°)	1246.5	14.7	B2/2500		
BH (60°-80°)	476.7	5.6	B1/500		G1/500
BVH (80°-90°)	26.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2814.1	2814.1	2814.1	2814.1	2814.1	2814.1	2814.1	2814.1	2814.1	2814.1	2814.1
2.5°	2779.2	2755.2	2769.4	2763.9	2808.7	2821.8	2815.2	2820.7	2845.8	2833.8	2808.7
5°	2597.0	2630.8	2637.4	2653.7	2679.9	2731.2	2771.6	2782.5	2794.5	2850.1	2844.7
7.5°	2431.1	2454.0	2442.0	2490.0	2546.8	2629.7	2678.8	2687.5	2797.8	2828.3	2851.2
10°	2326.4	2303.5	2358.0	2371.1	2435.5	2530.4	2589.3	2625.3	2725.7	2846.9	2861.0
12.5°	2229.3	2221.6	2254.4	2291.5	2363.5	2461.7	2521.7	2535.9	2690.8	2818.5	2885.0
15°	2157.2	2148.5	2181.2	2208.5	2292.5	2379.8	2456.2	2496.6	2652.6	2802.1	2864.3
17.5°	2100.5	2099.4	2118.0	2167.1	2253.3	2326.4	2449.7	2451.9	2633.0	2827.2	2881.8
20°	2097.2	2096.1	2099.4	2154.0	2232.5	2322.0	2428.9	2448.6	2633.0	2809.8	2882.9
22.5°	2124.5	2107.0	2126.7	2161.6	2218.3	2329.6	2436.6	2480.2	2696.3	2896.0	2932.0
25°	2168.1	2172.5	2183.4	2195.4	2228.2	2347.1	2504.2	2540.2	2770.5	2970.2	2999.6
27.5°	2247.8	2245.6	2250.0	2256.5	2284.9	2363.5	2531.5	2624.3	2925.4	3102.2	3072.7
30°	2364.6	2356.9	2374.4	2397.3	2371.1	2415.8	2622.1	2691.9	3069.5	3235.3	3154.6
32.5°	2470.4	2498.8	2531.5	2541.3	2509.7	2518.4	2742.1	2813.0	3189.5	3399.0	3255.0
35°	2602.4	2625.3	2669.0	2699.5	2694.1	2667.9	2905.8	2999.6	3363.0	3519.0	3360.8
37.5°	2731.2	2758.5	2830.5	2921.1	2870.9	2858.9	3080.4	3157.8	3416.4	3583.4	3438.3
40°	2938.5	2937.4	3061.8	3108.7	3153.5	3132.7	3261.5	3287.7	3444.8	3569.2	3440.4
42.5°	3181.8	3166.6	3293.1	3366.3	3424.1	3426.3	3450.3	3441.5	3457.9	3497.2	3417.5
45°	3413.2	3445.9	3573.6	3704.5	3762.3	3768.9	3609.6	3593.2	3480.8	3476.5	3373.9
47.5°	3695.8	3703.4	3808.2	3980.6	4114.8	4069.0	3815.8	3779.8	3581.2	3615.0	3447.0
50°	3712.2	3768.9	3862.7	4065.7	4478.1	4466.1	4083.1	4015.5	3742.7	3811.4	3651.0
52.5°	3369.5	3356.4	3467.7	3799.4	4450.9	4861.1	4526.2	4364.7	4089.7	4037.3	3981.7
55°	2567.5	2598.1	2696.3	3031.3	3864.9	4866.6	5129.6	4997.5	4460.7	4371.2	4306.8
56°	2252.2	2256.5	2349.3	2654.8	3526.7	4693.1	5244.1	5137.2	4645.1	4508.7	4410.5
57.5°	1867.0	1841.9	1889.9	2056.9	2976.7	4326.5	5118.7	5223.4	4861.1	4657.1	4520.7
60°	1469.8	1464.3	1444.7	1475.3	1881.2	3259.3	4261.0	4496.7	4839.3	4517.4	4329.8
62.5°	1200.3	1173.0	1212.3	1255.9	1307.2	2021.9	2994.2	3132.7	3842.0	3606.3	3252.8
65°	930.8	917.7	966.8	1108.6	1139.2	1284.3	1705.5	1812.4	2268.5	2228.2	1961.9
67.5°	640.5	642.7	685.3	901.3	1056.2	1043.2	1044.2	1099.9	1183.9	879.5	766.0
70°	405.9	404.8	427.7	580.5	850.0	858.7	815.1	798.7	757.3	458.3	485.6
72.5°	260.8	253.2	265.2	320.8	439.7	508.5	523.8	533.6	438.6	360.1	390.6
75°	147.3	139.7	135.3	149.5	173.5	200.8	220.4	227.0	254.2	272.8	289.2
77.5°	44.7	40.4	49.1	65.5	86.2	115.7	140.8	145.1	171.3	193.1	209.5
80°	19.6	21.8	30.6	43.6	61.1	81.8	99.3	105.8	123.3	139.7	144.0
82.5°	12.0	13.1	20.7	29.5	42.6	57.8	70.9	73.1	90.6	103.7	106.9
85°	4.4	5.5	10.9	17.5	27.3	37.1	37.1	40.4	37.1	37.1	40.4
87.5°	0.0	0.0	1.1	2.2	2.2	3.3	4.4	4.4	5.5	6.5	7.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P528076

CATALOG NUMBER: GALN-SA3A-827-U-SL2-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2814.1	2814.1	2814.1	2814.1	2814.1	2814.1	2814.1	2814.1	2814.1	2814.1	2814.1
2.5°	2821.8	2816.3	2807.6	2775.9	2772.7	2762.8	2708.3	2699.5	2708.3	2682.1	2684.3
5°	2816.3	2832.7	2767.2	2735.6	2676.6	2634.1	2585.0	2559.9	2515.1	2486.8	2518.4
7.5°	2840.3	2833.8	2751.9	2683.2	2594.8	2486.8	2400.6	2351.5	2272.9	2251.1	2267.4
10°	2831.6	2796.7	2700.6	2610.1	2443.1	2348.2	2208.5	2073.2	1999.0	1960.8	1955.4
12.5°	2819.6	2809.8	2649.4	2493.3	2317.6	2118.0	1921.5	1793.9	1672.8	1620.4	1628.0
15°	2833.8	2750.8	2553.3	2355.8	2122.3	1860.4	1648.8	1484.0	1400.0	1366.1	1366.1
17.5°	2827.2	2722.5	2507.5	2202.0	1906.3	1596.4	1364.0	1264.7	1229.7	1229.7	1239.6
20°	2830.5	2741.0	2414.8	2048.1	1650.9	1344.3	1175.2	1139.2	1154.5	1159.9	1165.4
22.5°	2849.0	2679.9	2324.2	1879.0	1414.2	1150.1	1067.2	1068.3	1095.5	1125.0	1119.5
25°	2872.0	2655.9	2214.0	1711.0	1233.0	1055.2	1029.0	1025.7	1046.4	1061.7	1063.9
27.5°	2852.3	2614.4	2101.6	1501.4	1084.6	991.9	986.4	988.6	995.1	1025.7	1015.9
30°	2916.7	2626.4	1960.8	1325.8	1002.8	971.1	964.6	961.3	971.1	979.9	972.2
32.5°	2996.3	2583.9	1856.1	1156.6	962.4	955.9	942.8	938.4	943.9	935.1	939.5
35°	3031.3	2576.2	1719.7	1035.5	930.8	925.3	917.7	916.6	917.7	910.0	903.5
37.5°	3050.9	2612.3	1563.6	979.9	911.1	916.6	899.1	896.9	877.3	881.7	884.9
40°	3084.7	2556.6	1437.1	926.4	899.1	888.2	872.9	869.7	856.6	848.9	856.6
42.5°	3035.6	2540.2	1312.7	903.5	881.7	869.7	858.7	840.2	835.8	829.3	824.9
45°	2996.3	2446.4	1201.4	875.1	860.9	854.4	833.7	814.0	797.6	804.2	794.4
47.5°	3025.8	2413.7	1091.2	851.1	832.6	824.9	804.2	788.9	772.5	764.9	762.7
50°	3143.7	2474.8	998.4	833.7	808.6	804.2	776.9	759.5	744.2	738.7	740.9
52.5°	3425.2	2641.7	935.1	797.6	785.6	766.0	750.7	728.9	719.1	701.6	712.5
55°	3782.0	2913.4	918.8	763.8	757.3	739.8	719.1	702.7	684.2	670.0	666.7
56°	3896.6	3043.3	905.7	750.7	739.8	730.0	702.7	692.9	663.4	660.2	658.0
57.5°	3989.3	3157.8	907.9	725.6	714.7	706.0	689.6	665.6	646.0	634.0	639.4
60°	3779.8	2956.0	866.4	687.4	685.3	668.9	646.0	635.1	611.1	596.9	593.6
62.5°	2809.8	2006.7	702.7	638.3	637.2	619.8	593.6	581.6	577.2	557.6	557.6
65°	1618.2	1258.1	607.8	598.0	589.2	571.8	545.6	535.8	524.9	518.3	512.8
67.5°	690.7	652.5	552.1	551.0	541.2	519.4	493.2	477.9	463.7	450.7	457.2
70°	500.8	508.5	498.7	493.2	481.2	453.9	431.0	412.5	390.6	381.9	388.5
72.5°	397.2	413.6	427.7	428.8	414.6	383.0	357.9	332.8	308.8	296.8	302.3
75°	301.2	312.1	326.3	329.5	308.8	287.0	263.0	236.8	218.2	204.0	206.2
77.5°	217.1	215.0	228.1	225.9	216.1	200.8	179.0	154.9	134.2	121.1	122.2
80°	148.4	151.7	159.3	158.2	146.2	136.4	120.0	100.4	85.1	74.2	72.0
82.5°	103.7	109.1	115.7	110.2	100.4	90.6	78.6	64.4	52.4	43.6	41.5
85°	37.1	42.6	49.1	52.4	55.6	53.5	44.7	36.0	26.2	21.8	20.7
87.5°	7.6	8.7	9.8	9.8	9.8	8.7	7.6	7.6	6.5	3.3	3.3
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)