

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: P528311

Luminaire Tested: **GALN-SA3B-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-827-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7303 lumens
Efficiency: N/A
Efficacy: 60.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

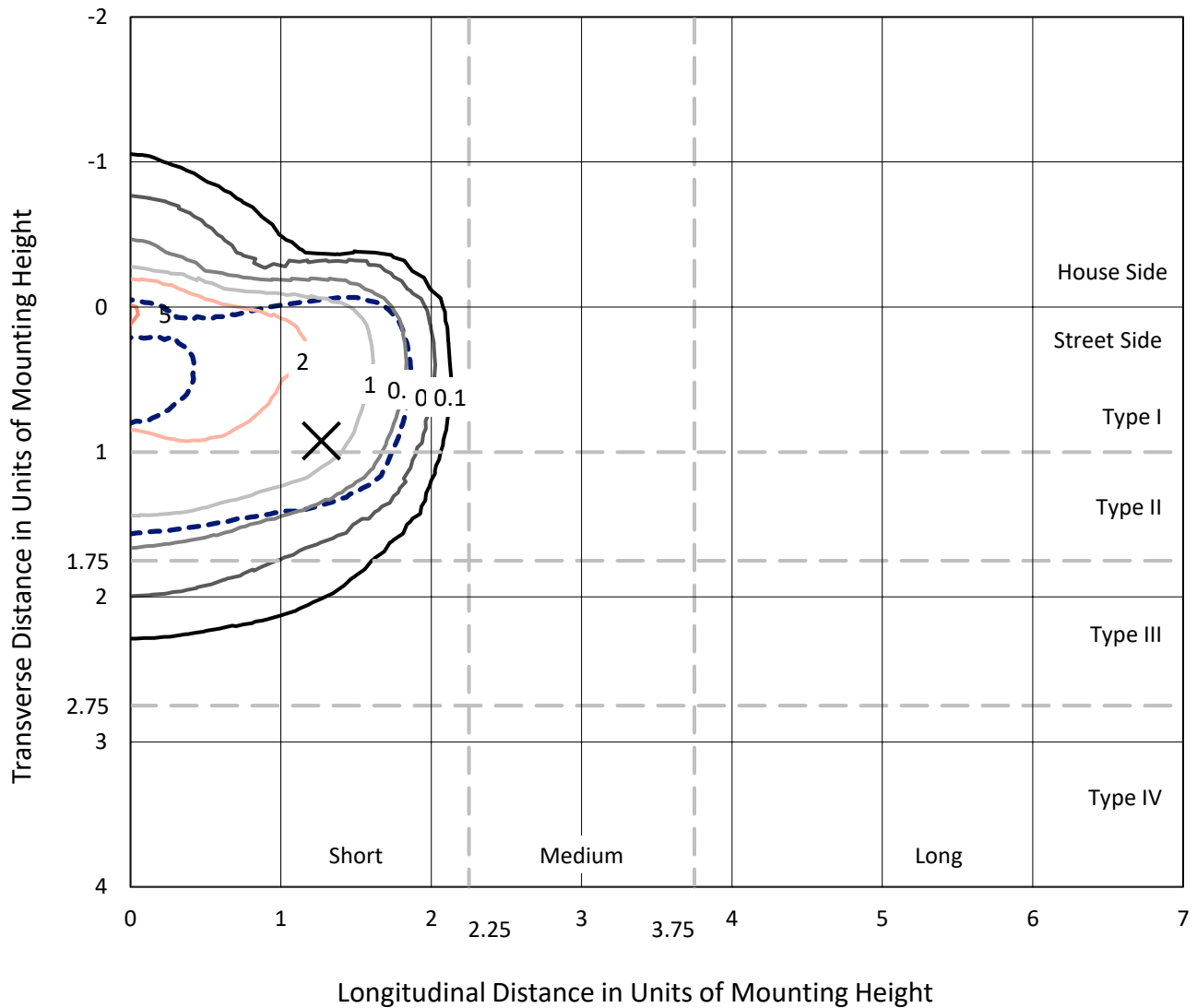
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

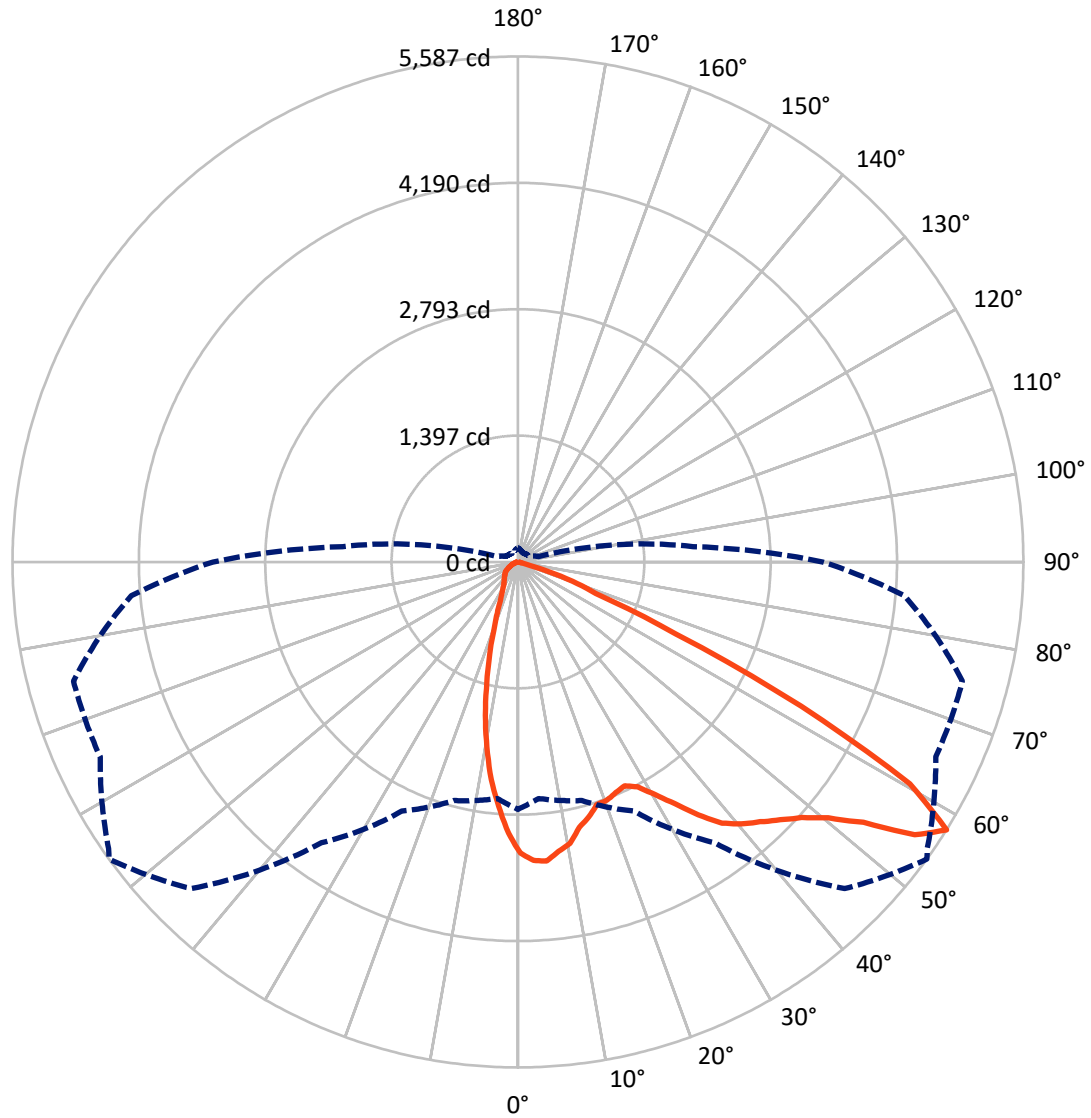
✕ Max cd
 - - - 1/2 Max cd



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

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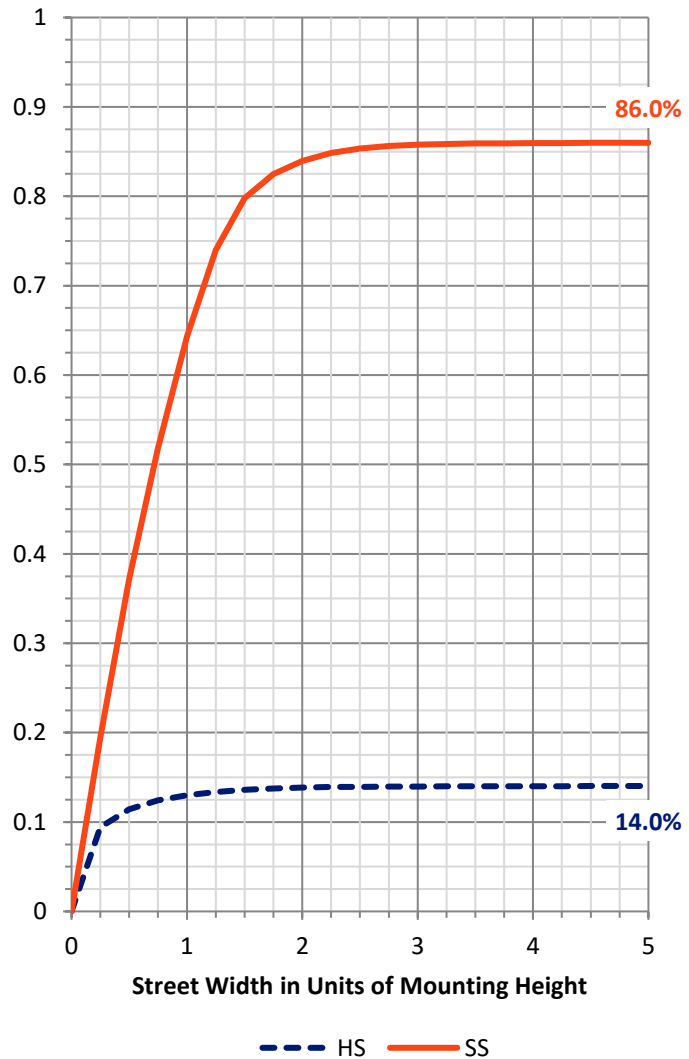
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1032.0	0.0	1032.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	6271.0	0.0	6271.0
	% Fixture	85.9	0.0	85.9
Total	Lumens	7303.0	0.0	7303.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.2	3.7
10°-20°	574.8	7.9
20°-30°	761.7	10.4
30°-40°	1106.9	15.2
40°-50°	1641.4	22.5
50°-60°	2052.5	28.1
60°-70°	809.6	11.1
70°-80°	80.6	1.1
80°-90°	6.3	0.1
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°	7303.0	100.0
0°-180°	7303.0	100.0

Coefficient of Utilization

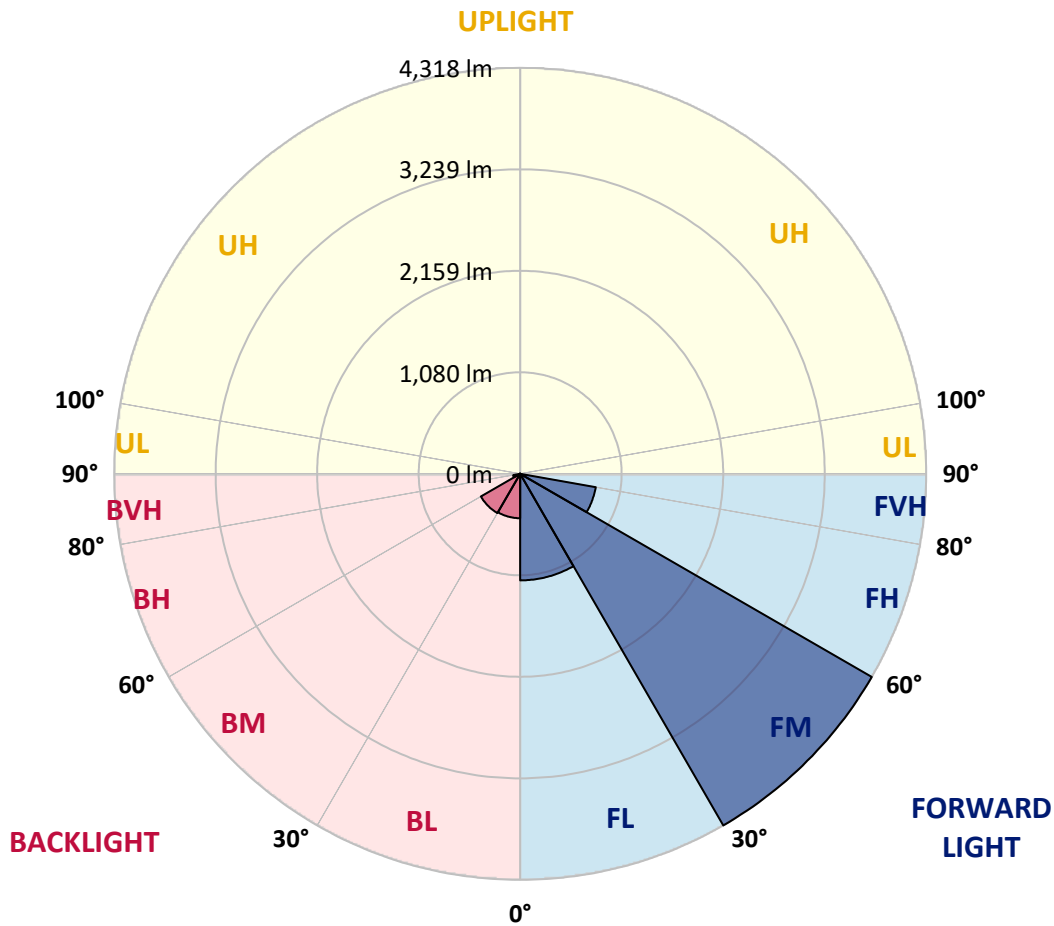


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1133.6	15.5			
FM (30°-60°)	4318.3	59.1			
FH (60°-80°)	816.2	11.2			G1/1800
FVH (80°-90°)	2.8	0.0			G0/10
BL (0°-30°)	472.0	6.5	B1/500		
BM (30°-60°)	482.6	6.6	B1/1000		
BH (60°-80°)	74.0	1.0	B0/110		G0/110
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3217.1	3217.1	3217.1	3217.1	3217.1	3217.1	3217.1	3217.1	3217.1	3217.1	3217.1
2.5°	3404.5	3369.2	3371.9	3359.7	3343.4	3355.6	3302.6	3314.8	3313.5	3241.5	3194.0
5°	3318.9	3356.9	3317.6	3350.2	3318.9	3352.9	3320.3	3295.8	3256.5	3203.5	3115.2
7.5°	3173.6	3136.9	3147.8	3188.6	3195.3	3271.4	3230.6	3261.9	3245.6	3141.0	3020.2
10°	2881.6	2873.5	2927.8	2982.1	3048.7	3130.2	3161.4	3143.7	3131.5	3092.1	2930.5
12.5°	2657.6	2680.7	2679.3	2768.9	2881.6	2927.8	3009.3	3006.6	3074.5	3001.1	2846.3
15°	2444.4	2456.6	2513.6	2569.3	2694.2	2826.0	2926.5	2940.0	3021.5	2969.9	2781.2
17.5°	2314.0	2296.4	2341.2	2407.7	2535.4	2707.8	2819.2	2851.8	2963.1	2952.3	2706.5
20°	2185.0	2185.0	2221.7	2300.4	2417.2	2611.4	2809.7	2800.2	2963.1	2931.9	2626.3
22.5°	2141.5	2163.3	2172.8	2232.5	2371.0	2538.1	2768.9	2786.6	2986.2	2922.4	2591.0
25°	2201.3	2172.8	2175.5	2223.0	2353.4	2502.8	2739.1	2778.4	3028.3	2969.9	2562.5
27.5°	2210.8	2239.3	2247.5	2280.1	2367.0	2513.6	2813.7	2893.9	3132.9	3081.3	2570.7
30°	2293.6	2322.2	2320.8	2376.5	2436.2	2601.9	2980.8	2997.1	3348.8	3221.1	2620.9
32.5°	2394.1	2424.0	2433.5	2498.7	2546.2	2763.5	3184.5	3226.6	3556.6	3441.1	2752.6
35°	2519.1	2508.2	2551.7	2616.8	2718.7	2999.8	3433.0	3503.6	3780.6	3726.3	2888.4
37.5°	2675.2	2661.7	2703.8	2809.7	2948.2	3279.5	3662.5	3708.7	3943.6	3991.1	3139.7
40°	2785.2	2790.7	2918.3	3060.9	3207.6	3545.7	3807.8	3852.6	4057.7	4238.3	3329.8
42.5°	2968.6	3002.5	3156.0	3329.8	3483.2	3745.3	3925.9	3969.4	4110.6	4436.5	3586.4
45°	3234.7	3219.8	3389.5	3583.7	3753.5	3953.1	4065.8	4050.9	4141.9	4633.4	3748.0
47.5°	3576.9	3579.7	3692.4	3858.0	4034.6	4133.7	4222.0	4169.0	4207.0	4841.2	3964.0
50°	3810.5	3830.9	3921.9	4091.6	4179.9	4332.0	4444.7	4412.1	4399.9	4966.2	4099.8
52.5°	3870.3	3931.4	3980.3	4192.1	4398.5	4638.9	4782.8	4852.1	4634.8	5008.3	4272.2
55°	3419.4	3473.7	3646.2	3936.8	4481.4	5125.0	5323.3	5324.7	4941.7	5195.7	4393.1
57.5°	2733.6	2623.6	2729.6	3037.8	3788.8	5104.7	5586.8	5522.9	5095.2	5085.7	4288.5
60°	1890.3	1863.2	1869.9	1992.2	2622.3	4060.4	4978.4	5061.2	4691.8	4408.0	3395.0
62.5°	1497.9	1474.8	1444.9	1431.3	1628.2	2529.9	3511.8	3628.5	3280.9	2858.6	2012.5
65°	1173.3	1159.7	1163.8	1218.1	1216.8	1435.4	1920.2	1872.7	1499.2	1108.1	632.8
67.5°	791.7	812.1	828.4	992.7	1076.9	999.5	927.5	900.3	487.5	205.1	139.9
70°	445.4	448.1	465.8	620.6	817.5	775.4	639.6	639.6	243.1	74.7	80.1
72.5°	243.1	234.9	218.6	267.5	363.9	369.4	285.2	248.5	72.0	48.9	44.8
75°	118.1	116.8	100.5	82.8	78.8	65.2	50.2	46.2	32.6	31.2	27.2
77.5°	24.4	23.1	12.2	12.2	13.6	14.9	19.0	19.0	23.1	23.1	19.0
80°	0.0	0.0	1.4	5.4	9.5	13.6	16.3	16.3	19.0	19.0	14.9
82.5°	0.0	0.0	1.4	4.1	8.1	12.2	14.9	16.3	19.0	20.4	16.3
85°	0.0	0.0	0.0	2.7	6.8	9.5	8.1	8.1	6.8	5.4	2.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3217.1	3217.1	3217.1	3217.1	3217.1	3217.1	3217.1	3217.1	3217.1	3217.1	3217.1
2.5°	3169.5	3166.8	3104.4	3069.0	3005.2	2949.5	2904.7	2872.1	2872.1	2851.8	2832.8
5°	3079.9	3056.8	2923.7	2838.2	2717.3	2627.7	2566.6	2519.1	2444.4	2464.7	2384.6
7.5°	2968.6	2910.2	2733.6	2603.3	2436.2	2308.6	2178.2	2062.8	1951.4	1901.2	1928.3
10°	2849.1	2747.2	2509.6	2303.1	2095.4	1861.8	1709.7	1525.0	1410.9	1404.2	1374.3
12.5°	2722.8	2607.3	2318.1	2032.9	1760.0	1478.8	1246.6	1074.2	996.8	911.2	927.5
15°	2627.7	2456.6	2104.9	1761.3	1398.7	1114.9	881.3	748.3	674.9	654.5	647.8
17.5°	2524.5	2341.2	1887.6	1472.1	1097.3	802.6	634.2	570.4	541.8	541.8	537.8
20°	2417.2	2210.8	1671.7	1203.2	822.9	598.9	507.9	487.5	486.2	484.8	484.8
22.5°	2346.6	2061.4	1476.1	956.0	620.6	479.4	441.3	433.2	438.6	454.9	454.9
25°	2271.9	1917.5	1260.2	737.4	480.7	411.5	389.7	395.2	408.8	423.7	418.3
27.5°	2195.9	1823.8	1056.5	578.5	393.8	359.9	351.7	363.9	378.9	392.5	388.4
30°	2178.2	1723.3	863.7	438.6	338.1	313.7	319.1	330.0	344.9	350.4	355.8
32.5°	2205.4	1644.5	707.5	359.9	294.7	287.9	287.9	293.3	302.8	315.1	311.0
35°	2282.8	1599.7	559.5	312.3	270.2	263.4	262.1	267.5	273.0	277.0	273.0
37.5°	2400.9	1564.4	457.6	277.0	253.9	243.1	240.4	239.0	244.4	245.8	248.5
40°	2551.7	1583.4	388.4	255.3	237.6	225.4	217.3	217.3	217.3	221.4	222.7
42.5°	2714.6	1609.2	335.4	243.1	222.7	207.8	199.6	196.9	199.6	205.1	203.7
45°	2885.7	1659.5	301.5	224.1	209.1	190.1	179.3	176.5	183.3	194.2	192.8
47.5°	3046.0	1731.4	275.7	211.8	195.6	177.9	164.3	161.6	173.8	188.8	190.1
50°	3206.2	1856.4	266.2	202.3	186.0	165.7	153.5	150.7	164.3	183.3	187.4
52.5°	3390.9	1990.8	259.4	190.1	175.2	156.2	142.6	139.9	154.8	179.3	180.6
55°	3511.8	2104.9	253.9	168.4	154.8	141.2	130.4	129.0	145.3	167.0	172.5
57.5°	3370.5	1946.0	234.9	146.7	131.7	124.9	115.4	115.4	129.0	149.4	153.5
60°	2555.7	1280.6	167.0	118.1	111.4	107.3	103.2	103.2	114.1	129.0	130.4
62.5°	1496.5	689.9	107.3	95.1	95.1	91.0	84.2	84.2	95.1	103.2	104.6
65°	444.1	221.4	86.9	81.5	80.1	73.3	66.5	65.2	73.3	77.4	76.0
67.5°	127.7	101.8	72.0	67.9	66.5	55.7	51.6	50.2	51.6	48.9	47.5
70°	76.0	69.3	55.7	57.0	50.2	40.7	36.7	35.3	32.6	28.5	25.8
72.5°	42.1	42.1	40.7	43.5	35.3	27.2	23.1	19.0	14.9	12.2	10.9
75°	25.8	27.2	28.5	29.9	23.1	17.7	14.9	9.5	5.4	2.7	2.7
77.5°	17.7	19.0	20.4	21.7	19.0	16.3	12.2	6.8	1.4	0.0	0.0
80°	13.6	14.9	17.7	19.0	20.4	21.7	16.3	6.8	1.4	0.0	0.0
82.5°	14.9	16.3	20.4	19.0	19.0	19.0	14.9	6.8	1.4	0.0	0.0
85°	2.7	4.1	6.8	6.8	9.5	12.2	9.5	2.7	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)