

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: P950935

Luminaire Tested: **GALN-SB5B-727-U-T2U-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950935  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5B-727-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

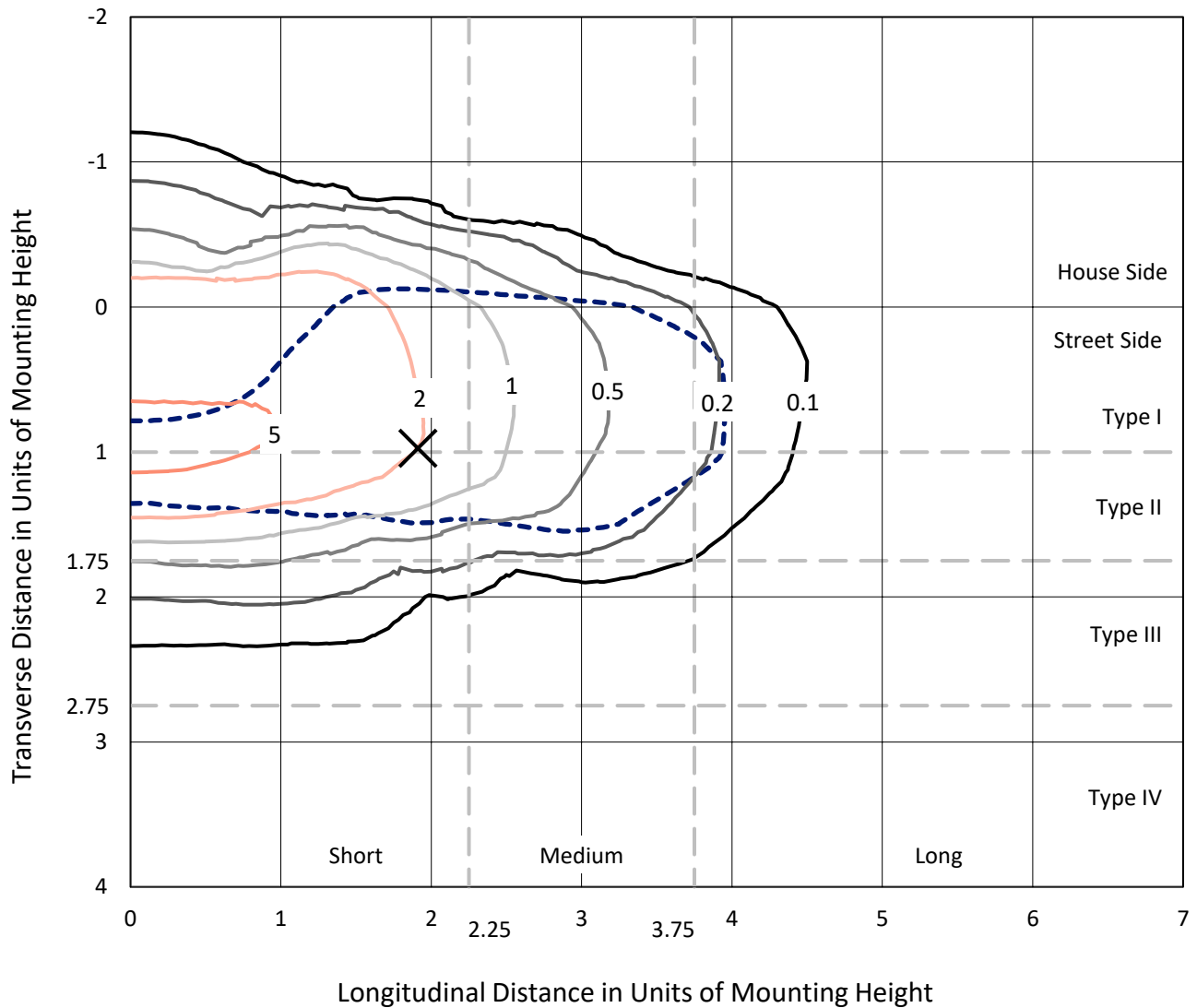
Lumens per Lamp: N/A  
Luminaire Lumens: 20164 lumens  
Efficiency: N/A  
Efficacy: 110.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

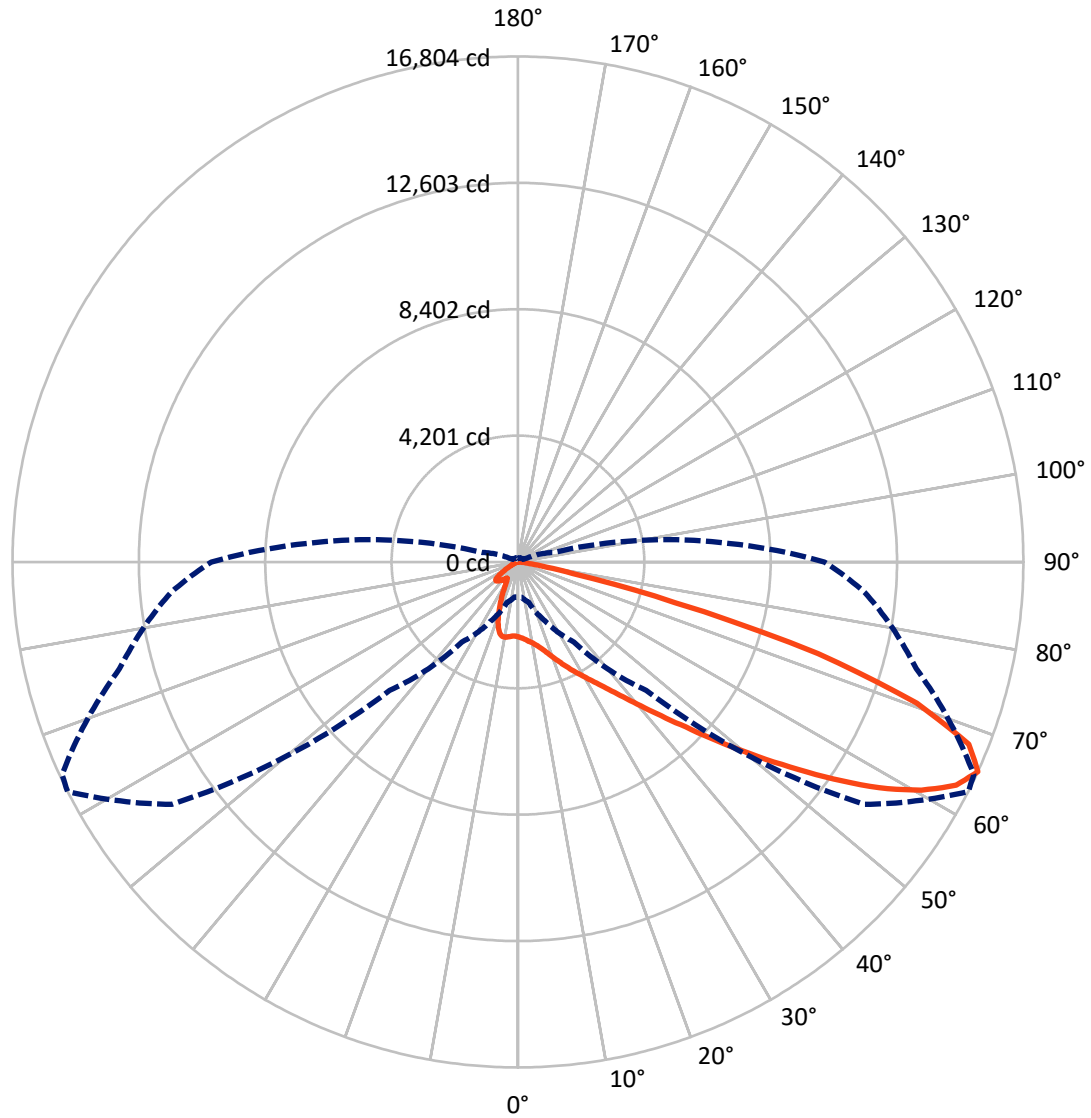
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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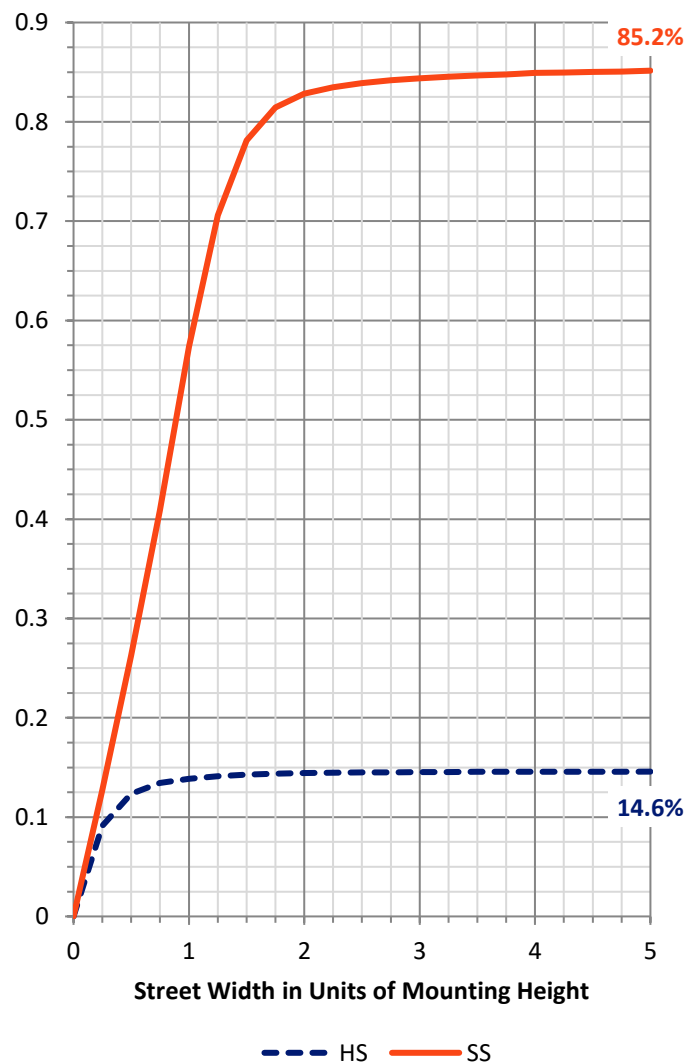
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2964.0	0.0	2964.0
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	17200.1	0.0	17200.1
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	20164.0	0.0	20164.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	234.5	1.2
10°-20°	650.6	3.2
20°-30°	1132.8	5.6
30°-40°	2041.8	10.1
40°-50°	4049.5	20.1
50°-60°	5516.2	27.4
60°-70°	4403.0	21.8
70°-80°	1992.4	9.9
80°-90°	143.2	0.7
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°	20164.0	100.0
0°-180°	20164.0	100.0

**Coefficient of Utilization**



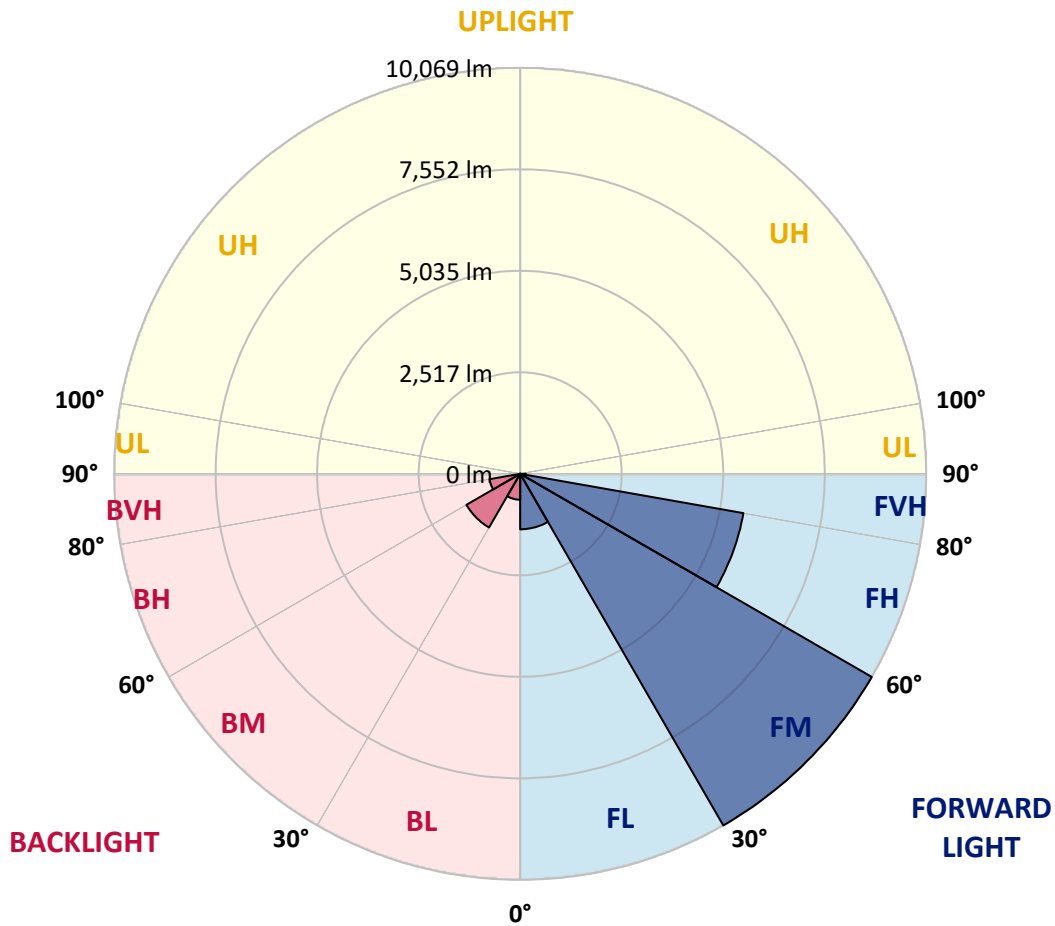
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1376.4	6.8			
FM (30°-60°)	10069.4	49.9			
FH (60°-80°)	5621.6	27.9			G3/7500
FVH (80°-90°)	132.6	0.7			G2/225
BL (0°-30°)	641.4	3.2	B2/1000		
BM (30°-60°)	1538.1	7.6	B2/2500		
BH (60°-80°)	773.8	3.8	B2/1000		G2/1000
BVH (80°-90°)	10.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2488.6	2488.6	2488.6	2488.6	2488.6	2488.6	2488.6	2488.6	2488.6	2488.6	2488.6
2.5°	2546.9	2539.9	2549.7	2545.5	2542.7	2537.2	2534.4	2531.6	2526.1	2521.9	2505.3
5°	2553.8	2549.7	2559.4	2567.7	2576.0	2584.3	2588.5	2594.0	2588.5	2577.4	2560.8
7.5°	2495.6	2492.8	2513.6	2538.6	2576.0	2607.9	2642.6	2662.0	2663.4	2659.2	2641.2
10°	2491.4	2484.5	2505.3	2535.8	2584.3	2641.2	2702.2	2743.9	2749.4	2767.4	2748.0
12.5°	2556.6	2549.7	2578.8	2612.1	2662.0	2721.7	2796.6	2854.8	2863.2	2888.1	2874.3
15°	2666.2	2656.5	2689.8	2732.8	2796.6	2864.5	2943.6	2996.3	3003.3	3033.8	3008.8
17.5°	2793.8	2784.1	2822.9	2868.7	2938.1	3031.0	3122.6	3180.8	3189.1	3208.6	3162.8
20°	2957.5	2945.0	2975.5	3017.1	3090.7	3201.6	3311.2	3394.5	3393.1	3393.1	3318.2
22.5°	3147.5	3128.1	3154.5	3187.8	3257.1	3391.7	3537.3	3635.8	3635.8	3597.0	3473.5
25°	3351.5	3332.0	3361.2	3391.7	3452.7	3605.3	3775.9	3898.0	3903.6	3837.0	3640.0
27.5°	3606.7	3581.7	3603.9	3640.0	3676.1	3831.4	4033.9	4175.4	4178.2	4075.6	3798.1
30°	4097.8	4027.0	3957.7	3918.8	3935.5	4089.4	4305.8	4462.6	4476.5	4335.0	3970.1
32.5°	4996.7	4982.8	4738.6	4419.6	4253.1	4366.9	4609.6	4798.3	4806.6	4624.9	4193.5
35°	6393.6	6376.9	5984.3	5376.7	4834.4	4738.6	4978.6	5202.0	5196.4	4991.1	4483.4
37.5°	8061.0	8045.7	7528.3	6715.4	5837.3	5300.5	5454.4	5688.9	5723.5	5454.4	4857.9
40°	9485.6	9428.7	9101.4	8317.6	7169.0	6232.6	6131.4	6286.7	6322.8	6003.8	5333.7
42.5°	10564.8	10516.3	10349.8	9860.1	8780.9	7611.5	6929.0	6988.7	7028.9	6646.0	5880.3
45°	11123.9	11112.8	11179.4	11133.6	10423.3	9303.9	8069.3	7821.0	7836.2	7357.7	6500.4
47.5°	11202.9	11197.4	11501.2	11931.2	11835.5	11212.7	9532.8	8858.6	8804.5	8160.8	7174.5
50°	10736.8	10725.8	11308.4	12114.3	12778.8	12816.2	11194.6	10028.0	9908.7	8991.8	7877.9
52.5°	9248.4	9245.6	10202.8	11544.2	13110.3	14220.1	12837.1	11312.5	11112.8	9871.2	8621.4
55°	7116.3	7167.6	8264.9	9850.4	12505.5	14895.6	14311.6	12738.6	12432.0	10756.3	9306.7
57.5°	5041.0	5116.0	6200.7	7612.9	10630.0	14496.1	15309.0	14167.4	13837.2	11638.5	10001.6
60°	2707.8	2774.4	3860.5	5546.0	7908.4	13006.3	15834.8	15407.5	15095.4	12476.4	10628.6
62.5°	1613.3	1635.5	2084.9	3580.3	5349.0	9936.4	15611.4	16352.2	16095.6	13179.7	11173.8
65°	1158.3	1162.5	1388.6	2186.2	3247.4	6037.1	14045.3	16804.4	16725.3	13709.6	11577.5
67.5°	975.2	972.4	1066.7	1452.4	2212.6	3024.1	10764.6	16164.9	16500.6	14045.3	11806.4
70°	836.5	840.6	951.6	1064.0	1663.2	1711.8	5351.8	14074.4	14790.2	14134.1	11792.5
72.5°	622.8	636.7	739.4	969.6	1255.4	1177.7	1847.7	10435.8	11730.1	13317.0	11180.8
75°	439.7	446.7	520.2	815.7	936.4	857.3	943.3	5394.8	7053.9	10209.7	9151.3
77.5°	338.5	351.0	394.0	570.1	922.5	602.0	577.1	1867.2	2868.7	6167.4	6274.3
80°	183.1	205.3	284.4	412.0	647.8	425.9	285.8	743.5	972.4	2884.0	2419.3
82.5°	94.3	105.4	198.4	296.9	369.0	371.8	141.5	309.3	400.9	890.6	331.5
85°	37.5	45.8	133.2	163.7	190.0	183.1	63.8	124.8	144.3	246.9	101.3
87.5°	8.3	13.9	48.6	37.5	36.1	38.8	15.3	29.1	27.7	29.1	18.0
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°	2488.6	2488.6	2488.6	2488.6	2488.6	2488.6	2488.6	2488.6	2488.6	2488.6	2488.6
2.5°	2503.9	2498.3	2483.1	2466.4	2447.0	2435.9	2429.0	2427.6	2417.9	2410.9	2417.9
5°	2545.5	2539.9	2510.8	2476.1	2438.7	2409.5	2381.8	2356.8	2320.8	2313.8	2311.1
7.5°	2628.7	2613.5	2566.3	2519.1	2448.4	2363.8	2261.1	2143.2	2037.8	2005.9	1990.6
10°	2731.4	2710.6	2650.9	2567.7	2410.9	2180.7	1932.4	1702.1	1519.0	1467.6	1448.2
12.5°	2847.9	2829.9	2750.8	2596.8	2254.2	1836.6	1456.5	1170.8	993.2	948.8	936.4
15°	2986.6	2960.3	2850.7	2552.4	1974.0	1395.5	1000.2	830.9	767.1	758.8	750.5
17.5°	3133.7	3090.7	2939.5	2392.9	1596.7	991.8	772.7	724.1	696.4	688.0	683.9
20°	3268.2	3212.7	2992.2	2151.5	1193.0	772.7	692.2	660.3	635.3	625.6	620.1
22.5°	3402.8	3323.7	2992.2	1822.8	894.7	685.3	635.3	606.2	577.1	564.6	557.7
25°	3542.9	3437.5	2939.5	1456.5	720.0	628.4	581.2	549.3	524.4	509.1	503.5
27.5°	3678.8	3533.2	2818.8	1109.8	640.9	578.5	531.3	500.8	477.2	466.1	466.1
30°	3807.8	3627.5	2649.5	842.0	589.6	529.9	485.5	459.2	435.6	424.5	425.9
32.5°	3982.6	3746.8	2469.2	690.8	545.2	484.1	443.9	418.9	398.1	389.8	389.8
35°	4225.4	3923.0	2313.8	678.3	507.7	446.7	406.4	382.9	362.1	355.1	355.1
37.5°	4569.4	4207.3	2232.0	761.6	477.2	413.4	375.9	351.0	331.5	326.0	324.6
40°	4993.9	4593.0	2276.4	844.8	456.4	384.3	348.2	323.2	306.6	299.6	298.2
42.5°	5497.4	5068.8	2521.9	908.6	442.5	359.3	321.8	294.1	283.0	280.2	280.2
45°	6075.9	5591.8	2897.8	976.6	420.3	335.7	295.5	274.7	266.3	265.0	263.6
47.5°	6733.4	6166.1	3333.4	1061.2	398.1	313.5	274.7	260.8	253.9	251.1	251.1
50°	7385.4	6744.5	3781.5	1108.4	380.1	292.7	258.0	246.9	241.4	240.0	240.0
52.5°	8067.9	7339.6	4143.5	1064.0	364.8	276.1	244.1	235.8	230.3	228.9	228.9
55°	8718.5	7821.0	4206.0	903.1	334.3	259.4	228.9	224.7	217.8	217.8	216.4
57.5°	9278.9	8062.3	3764.8	663.1	303.8	234.4	213.6	209.5	203.9	202.5	201.1
60°	9793.6	7993.0	2906.2	446.7	270.5	209.5	194.2	191.4	185.9	178.9	177.6
62.5°	10083.5	7687.8	1987.8	291.3	237.2	183.1	172.0	170.6	158.1	144.3	141.5
65°	10193.1	7060.8	1240.1	212.2	198.4	156.8	148.4	145.7	127.6	112.4	111.0
67.5°	10097.4	6028.7	625.6	167.8	156.8	130.4	122.1	122.1	109.6	95.7	94.3
70°	9714.5	4519.5	263.6	134.6	120.7	99.9	99.9	105.4	92.9	77.7	76.3
72.5°	8883.6	3040.7	140.1	102.7	90.2	70.7	81.8	86.0	73.5	58.3	58.3
75°	7062.2	1854.7	97.1	76.3	56.9	49.9	62.4	65.2	49.9	38.8	37.5
77.5°	4830.2	1065.4	65.2	48.6	36.1	29.1	43.0	40.2	26.4	18.0	19.4
80°	2121.0	443.9	37.5	22.2	13.9	11.1	15.3	11.1	8.3	5.5	5.5
82.5°	248.3	104.0	13.9	8.3	5.5	2.8	1.4	0.0	0.0	0.0	0.0
85°	51.3	12.5	6.9	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.7	2.8	1.4	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)