

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: P950914

Luminaire Tested: **GALN-SB5B-722-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950914
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-722-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 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: 17958 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

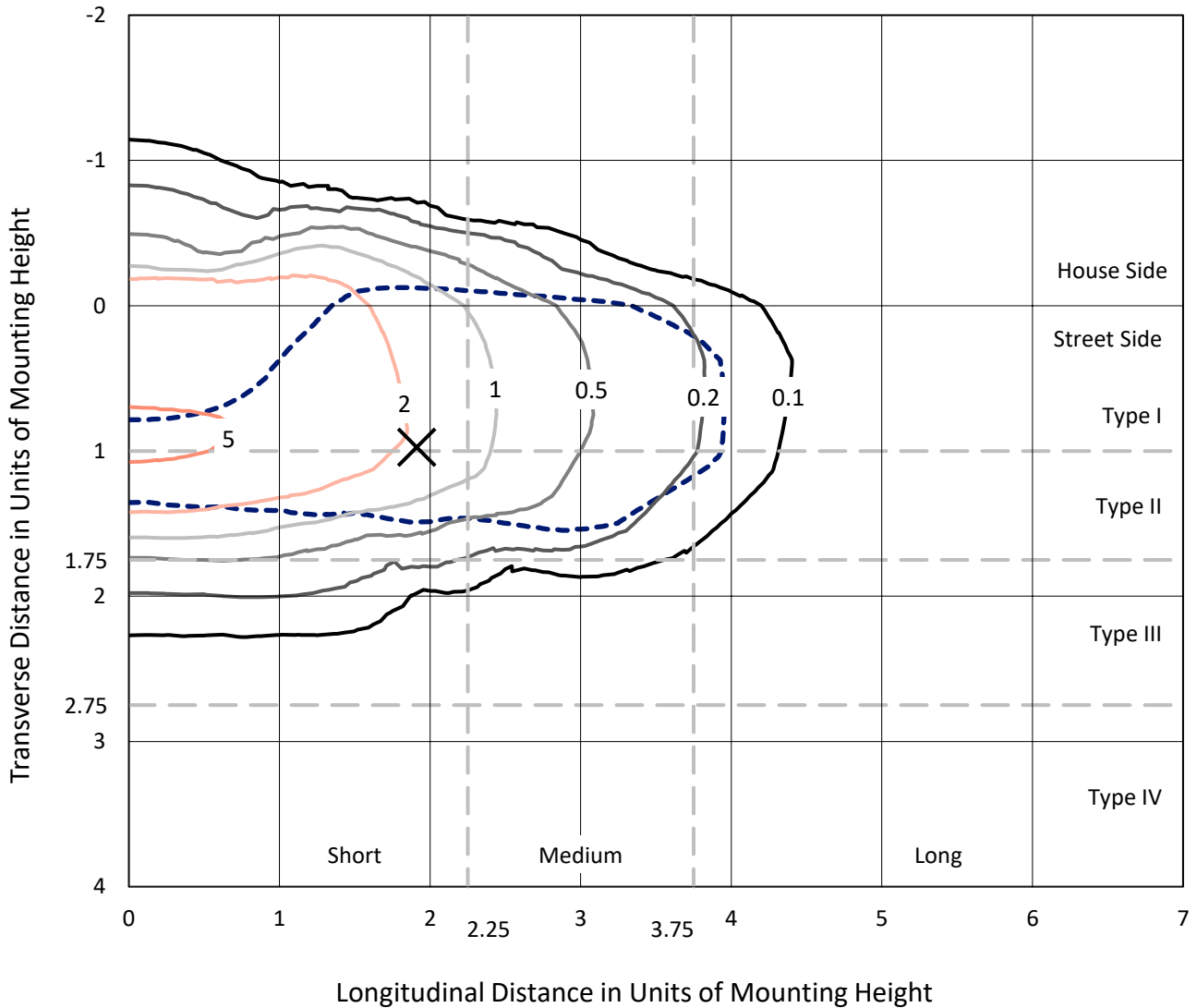
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

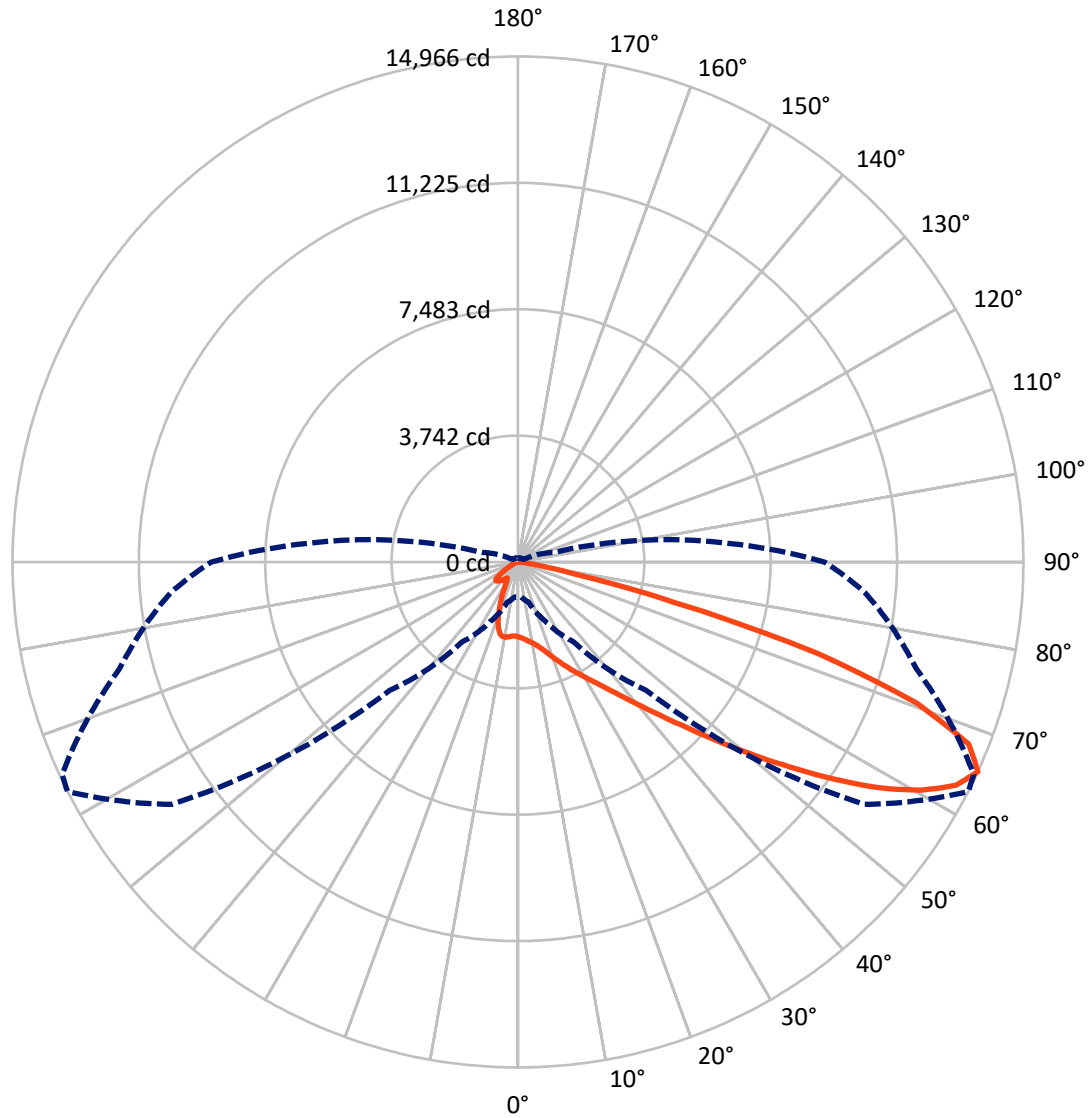
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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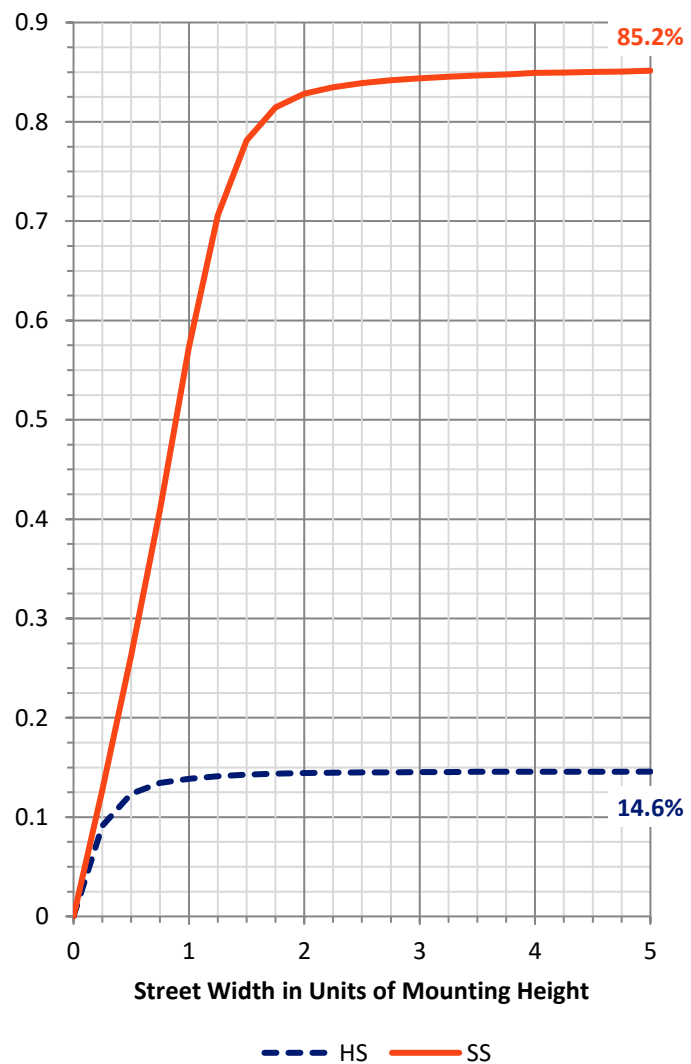
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2639.7	0.0	2639.7
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	15318.3	0.0	15318.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	17958.0	0.0	17958.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.8	1.2
10°-20°	579.4	3.2
20°-30°	1008.9	5.6
30°-40°	1818.4	10.1
40°-50°	3606.5	20.1
50°-60°	4912.7	27.4
60°-70°	3921.3	21.8
70°-80°	1774.5	9.9
80°-90°	127.5	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°	17958.0	100.0
0°-180°	17958.0	100.0

Coefficient of Utilization



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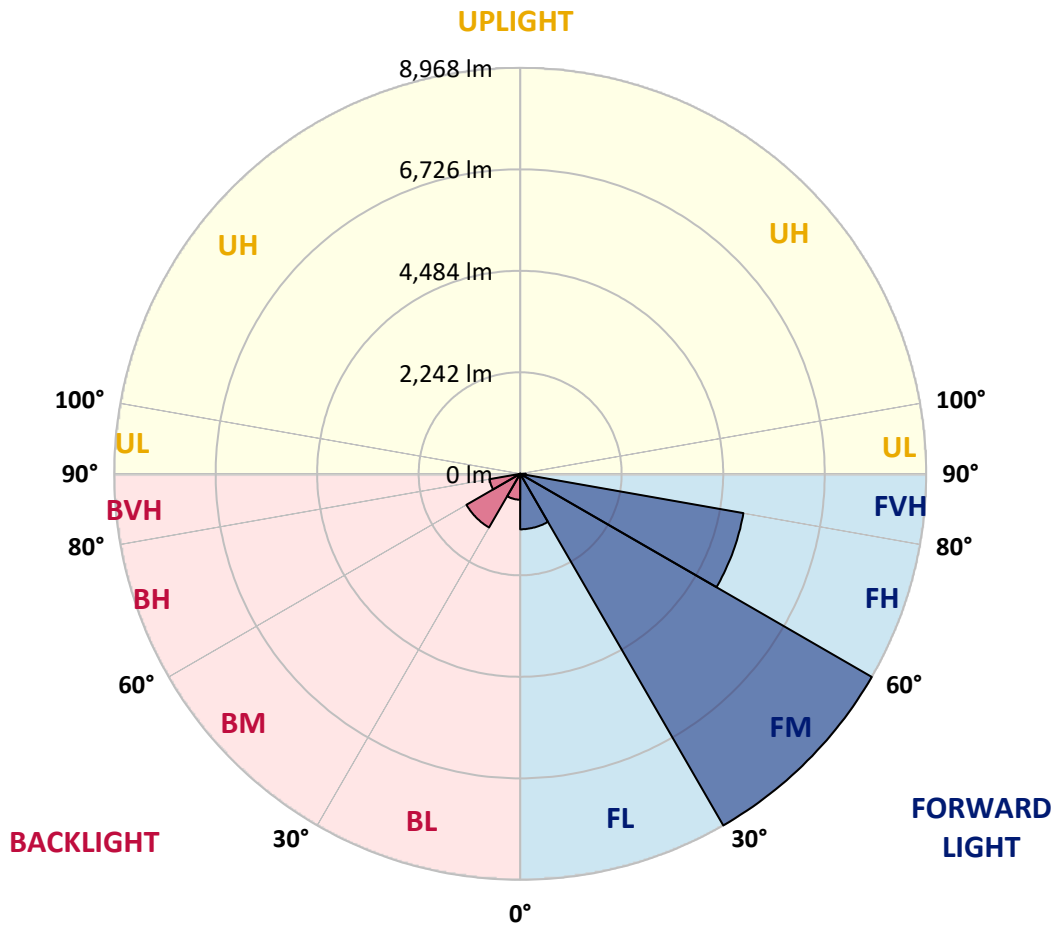
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1225.9	6.8			
FM (30°-60°)	8967.8	49.9			
FH (60°-80°)	5006.6	27.9			G3/7500
FVH (80°-90°)	118.1	0.7			G2/225
BL (0°-30°)	571.3	3.2	B2/1000		
BM (30°-60°)	1369.8	7.6	B2/2500		
BH (60°-80°)	689.1	3.8	B2/1000		G2/1000
BVH (80°-90°)	9.5	0.1			G0/10
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°	2216.4	2216.4	2216.4	2216.4	2216.4	2216.4	2216.4	2216.4	2216.4	2216.4	2216.4
2.5°	2268.2	2262.1	2270.7	2267.0	2264.5	2259.6	2257.1	2254.7	2249.7	2246.0	2231.2
5°	2274.4	2270.7	2279.4	2286.8	2294.2	2301.6	2305.3	2310.2	2305.3	2295.4	2280.6
7.5°	2222.5	2220.1	2238.6	2260.8	2294.2	2322.6	2353.5	2370.8	2372.0	2368.3	2352.3
10°	2218.8	2212.7	2231.2	2258.4	2301.6	2352.3	2406.6	2443.7	2448.6	2464.7	2447.4
12.5°	2276.9	2270.7	2296.7	2326.3	2370.8	2423.9	2490.6	2542.5	2549.9	2572.2	2559.8
15°	2374.5	2365.8	2395.5	2433.8	2490.6	2551.2	2621.6	2668.5	2674.7	2701.9	2679.6
17.5°	2488.2	2479.5	2514.1	2554.9	2616.6	2699.4	2780.9	2832.8	2840.2	2857.5	2816.8
20°	2633.9	2622.8	2650.0	2687.1	2752.5	2851.4	2949.0	3023.1	3021.9	3021.9	2955.1
22.5°	2803.2	2785.9	2809.4	2839.0	2900.8	3020.6	3150.3	3238.1	3238.1	3203.5	3093.5
25°	2984.8	2967.5	2993.4	3020.6	3075.0	3210.9	3362.8	3471.6	3476.5	3417.2	3241.8
27.5°	3212.1	3189.9	3209.6	3241.8	3273.9	3412.3	3592.6	3718.6	3721.1	3629.7	3382.6
30°	3649.5	3586.4	3524.7	3490.1	3504.9	3642.0	3834.8	3974.4	3986.7	3860.7	3535.8
32.5°	4450.0	4437.7	4220.2	3936.1	3787.8	3889.1	4105.3	4273.3	4280.8	4118.9	3734.7
35°	5694.1	5679.3	5329.6	4788.5	4305.5	4220.2	4433.9	4632.9	4627.9	4445.1	3992.9
37.5°	7179.1	7165.5	6704.7	5980.7	5198.7	4720.6	4857.7	5066.5	5097.4	4857.7	4326.5
40°	8447.9	8397.2	8105.6	7407.6	6384.7	5550.8	5460.6	5599.0	5631.1	5346.9	4750.2
42.5°	9409.0	9365.8	9217.5	8781.4	7820.3	6778.8	6171.0	6224.1	6259.9	5918.9	5237.0
45°	9906.9	9897.0	9956.3	9915.5	9283.0	8286.0	7186.5	6965.3	6978.9	6552.7	5789.2
47.5°	9977.3	9972.4	10242.9	10625.9	10540.7	9986.0	8489.9	7889.4	7841.3	7268.0	6389.6
50°	9562.2	9552.3	10071.2	10789.0	11380.8	11414.1	9969.9	8930.9	8824.7	8008.0	7016.0
52.5°	8236.6	8234.1	9086.6	10281.2	11676.0	12664.4	11432.6	10074.9	9897.0	8791.3	7678.2
55°	6337.7	6383.5	7360.7	8772.8	11137.4	13266.0	12745.9	11344.9	11071.9	9579.5	8288.5
57.5°	4489.5	4556.3	5522.4	6780.0	9467.1	12910.2	13634.2	12617.4	12323.4	10365.2	8907.4
60°	2411.6	2470.9	3438.2	4939.2	7043.2	11583.4	14102.4	13721.9	13443.9	11111.4	9465.8
62.5°	1436.8	1456.6	1856.8	3188.6	4763.8	8849.4	13903.5	14563.2	14334.7	11737.8	9951.4
65°	1031.6	1035.3	1236.7	1947.0	2892.1	5376.6	12508.7	14966.0	14895.5	12209.7	10310.9
67.5°	868.5	866.0	950.0	1293.5	1970.5	2693.2	9586.9	14396.4	14695.4	12508.7	10514.7
70°	745.0	748.7	847.5	947.6	1481.3	1524.5	4766.3	12534.6	13172.1	12587.8	10502.4
72.5°	554.7	567.1	658.5	863.6	1118.1	1048.9	1645.6	9294.1	10446.8	11860.1	9957.5
75°	391.6	397.8	463.3	726.4	833.9	763.5	840.1	4804.6	6282.1	9092.7	8150.1
77.5°	301.4	312.6	350.9	507.8	821.6	536.2	513.9	1662.9	2554.9	5492.7	5587.8
80°	163.1	182.8	253.3	366.9	576.9	379.3	254.5	662.2	866.0	2568.5	2154.6
82.5°	84.0	93.9	176.7	264.4	328.6	331.1	126.0	275.5	357.0	793.1	295.3
85°	33.4	40.8	118.6	145.8	169.3	163.1	56.8	111.2	128.5	219.9	90.2
87.5°	7.4	12.4	43.2	33.4	32.1	34.6	13.6	25.9	24.7	25.9	16.1
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°	2216.4	2216.4	2216.4	2216.4	2216.4	2216.4	2216.4	2216.4	2216.4	2216.4	2216.4
2.5°	2229.9	2225.0	2211.4	2196.6	2179.3	2169.4	2163.2	2162.0	2153.3	2147.2	2153.3
5°	2267.0	2262.1	2236.1	2205.2	2171.9	2145.9	2121.2	2099.0	2066.9	2060.7	2058.2
7.5°	2341.1	2327.5	2285.5	2243.5	2180.5	2105.2	2013.7	1908.7	1814.8	1786.4	1772.8
10°	2432.6	2414.0	2360.9	2286.8	2147.2	1942.1	1721.0	1515.9	1352.8	1307.1	1289.8
12.5°	2536.3	2520.3	2449.9	2312.7	2007.6	1635.7	1297.2	1042.7	884.6	845.0	833.9
15°	2659.9	2636.4	2538.8	2273.2	1758.0	1242.8	890.7	740.0	683.2	675.8	668.4
17.5°	2790.8	2752.5	2617.9	2131.1	1422.0	883.3	688.1	644.9	620.2	612.8	609.1
20°	2910.7	2861.2	2664.8	1916.1	1062.5	688.1	616.5	588.1	565.8	557.2	552.2
22.5°	3030.5	2960.1	2664.8	1623.4	796.9	610.3	565.8	539.9	513.9	502.8	496.6
25°	3155.3	3061.4	2617.9	1297.2	641.2	559.6	517.6	489.2	467.0	453.4	448.5
27.5°	3276.4	3146.6	2510.4	988.3	570.8	515.2	473.2	446.0	425.0	415.1	415.1
30°	3391.2	3230.6	2359.7	749.9	525.1	471.9	432.4	408.9	387.9	378.0	379.3
32.5°	3546.9	3336.9	2199.1	615.2	485.5	431.2	395.3	373.1	354.6	347.2	347.2
35°	3763.1	3493.8	2060.7	604.1	452.2	397.8	362.0	341.0	322.4	316.3	316.3
37.5°	4069.5	3747.1	1987.8	678.2	425.0	368.2	334.8	312.6	295.3	290.3	289.1
40°	4447.5	4090.5	2027.3	752.4	406.5	342.2	310.1	287.9	273.0	266.9	265.6
42.5°	4896.0	4514.3	2246.0	809.2	394.1	320.0	286.6	261.9	252.0	249.6	249.6
45°	5411.2	4980.0	2580.8	869.7	374.3	299.0	263.1	244.6	237.2	236.0	234.7
47.5°	5996.8	5491.5	2968.7	945.1	354.6	279.2	244.6	232.3	226.1	223.6	223.6
50°	6577.4	6006.6	3367.8	987.1	338.5	260.7	229.8	219.9	215.0	213.7	213.7
52.5°	7185.2	6536.6	3690.2	947.6	324.9	245.9	217.4	210.0	205.1	203.8	203.8
55°	7764.7	6965.3	3745.8	804.3	297.7	231.0	203.8	200.1	194.0	194.0	192.7
57.5°	8263.8	7180.3	3352.9	590.5	270.6	208.8	190.3	186.5	181.6	180.4	179.1
60°	8722.1	7118.5	2588.2	397.8	240.9	186.5	173.0	170.5	165.5	159.4	158.1
62.5°	8980.3	6846.7	1770.4	259.4	211.3	163.1	153.2	152.0	140.8	128.5	126.0
65°	9077.9	6288.3	1104.5	189.0	176.7	139.6	132.2	129.7	113.7	100.1	98.8
67.5°	8992.7	5369.2	557.2	149.5	139.6	116.1	108.7	108.7	97.6	85.2	84.0
70°	8651.7	4025.0	234.7	119.8	107.5	89.0	89.0	93.9	82.8	69.2	67.9
72.5°	7911.7	2708.1	124.8	91.4	80.3	63.0	72.9	76.6	65.5	51.9	51.9
75°	6289.6	1651.8	86.5	67.9	50.7	44.5	55.6	58.1	44.5	34.6	33.4
77.5°	4301.8	948.8	58.1	43.2	32.1	25.9	38.3	35.8	23.5	16.1	17.3
80°	1889.0	395.3	33.4	19.8	12.4	9.9	13.6	9.9	7.4	4.9	4.9
82.5°	221.1	92.7	12.4	7.4	4.9	2.5	1.2	0.0	0.0	0.0	0.0
85°	45.7	11.1	6.2	2.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.6	2.5	1.2	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)