

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: P951271

Luminaire Tested: **GALN-SB5C-722-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951271
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-SB5C-722-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 615mA 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: 23884 lumens
Efficiency: N/A
Efficacy: 95.7 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): 249.5
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



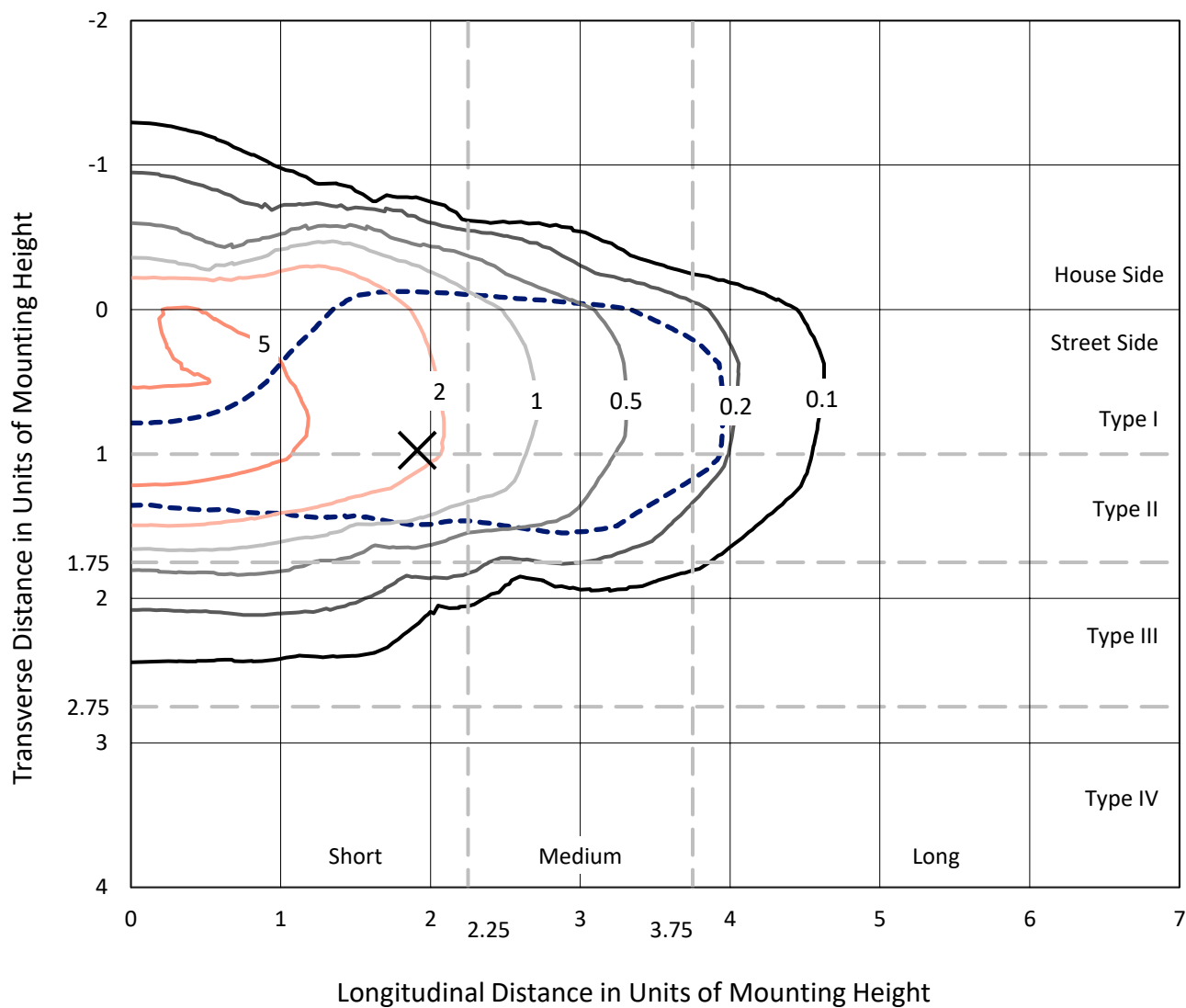
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

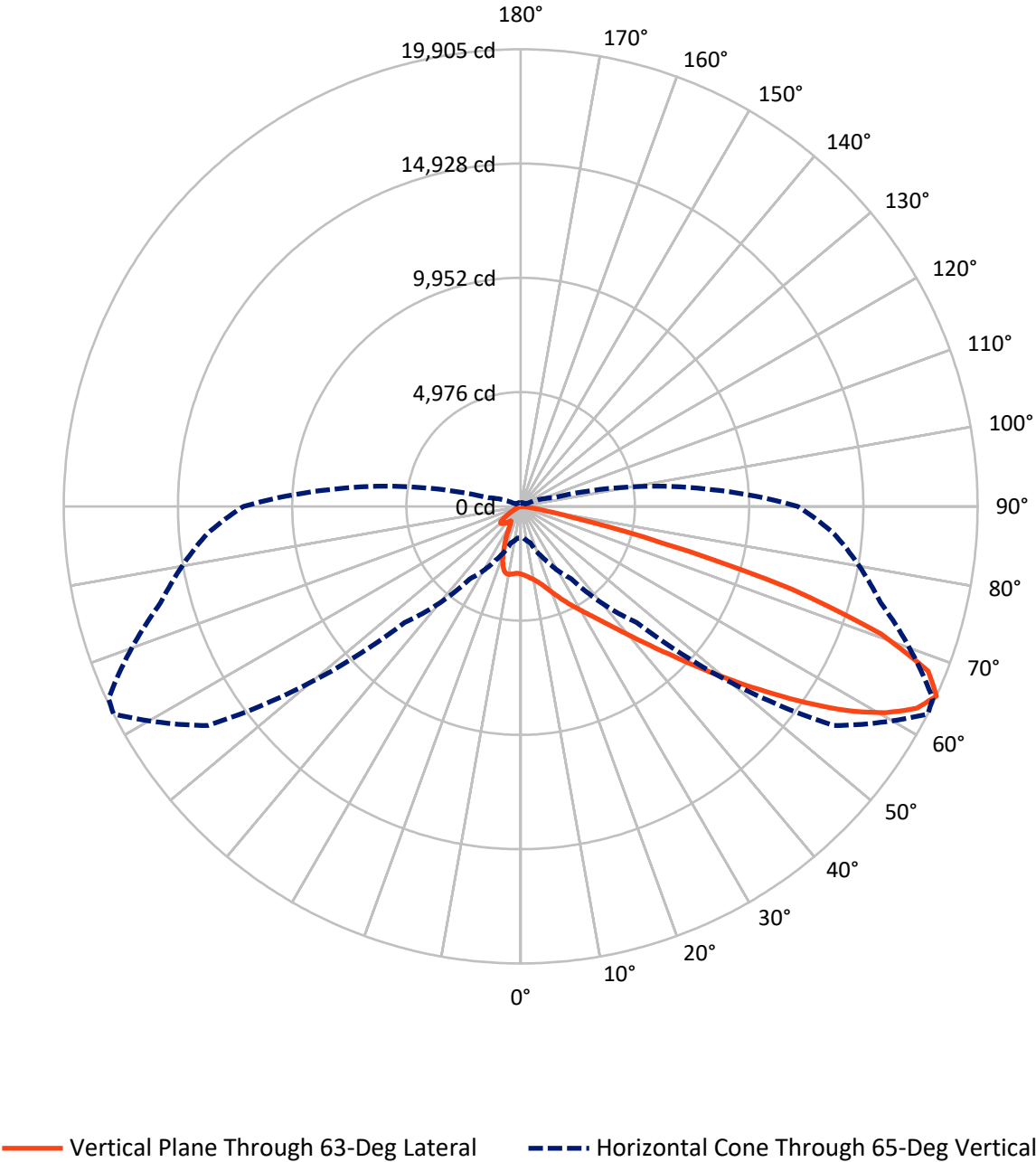
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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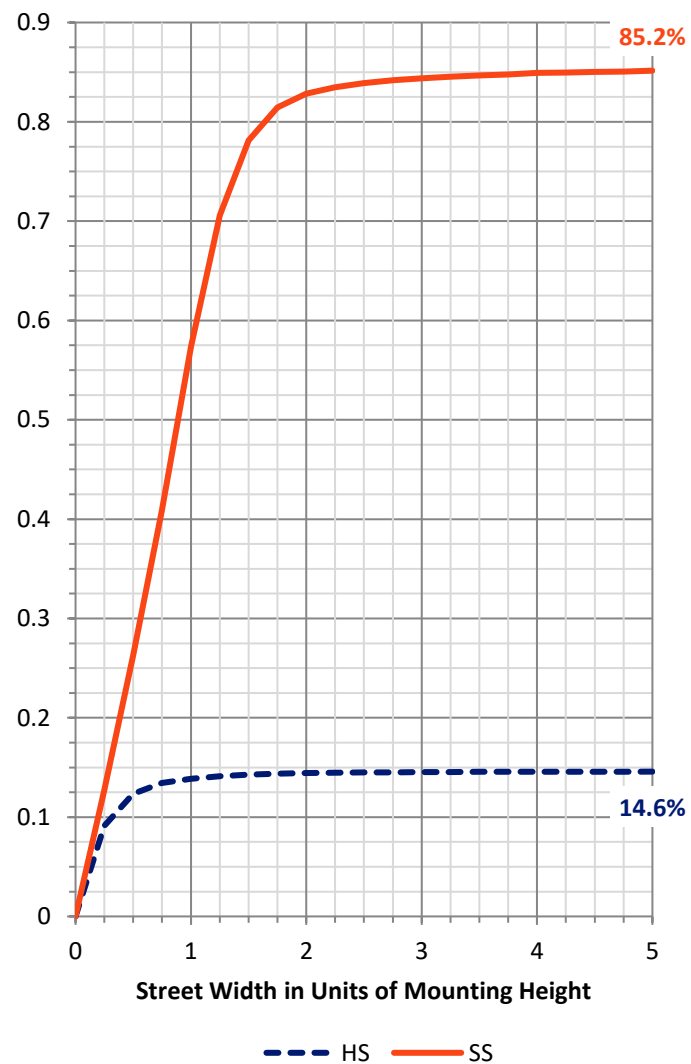
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3510.8	0.0	3510.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	20373.2	0.0	20373.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	23884.0	0.0	23884.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.7	1.2
10°-20°	770.6	3.2
20°-30°	1341.8	5.6
30°-40°	2418.5	10.1
40°-50°	4796.6	20.1
50°-60°	6533.8	27.4
60°-70°	5215.2	21.8
70°-80°	2360.0	9.9
80°-90°	169.6	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°	23884.0	100.0
0°-180°	23884.0	100.0

Coefficient of Utilization



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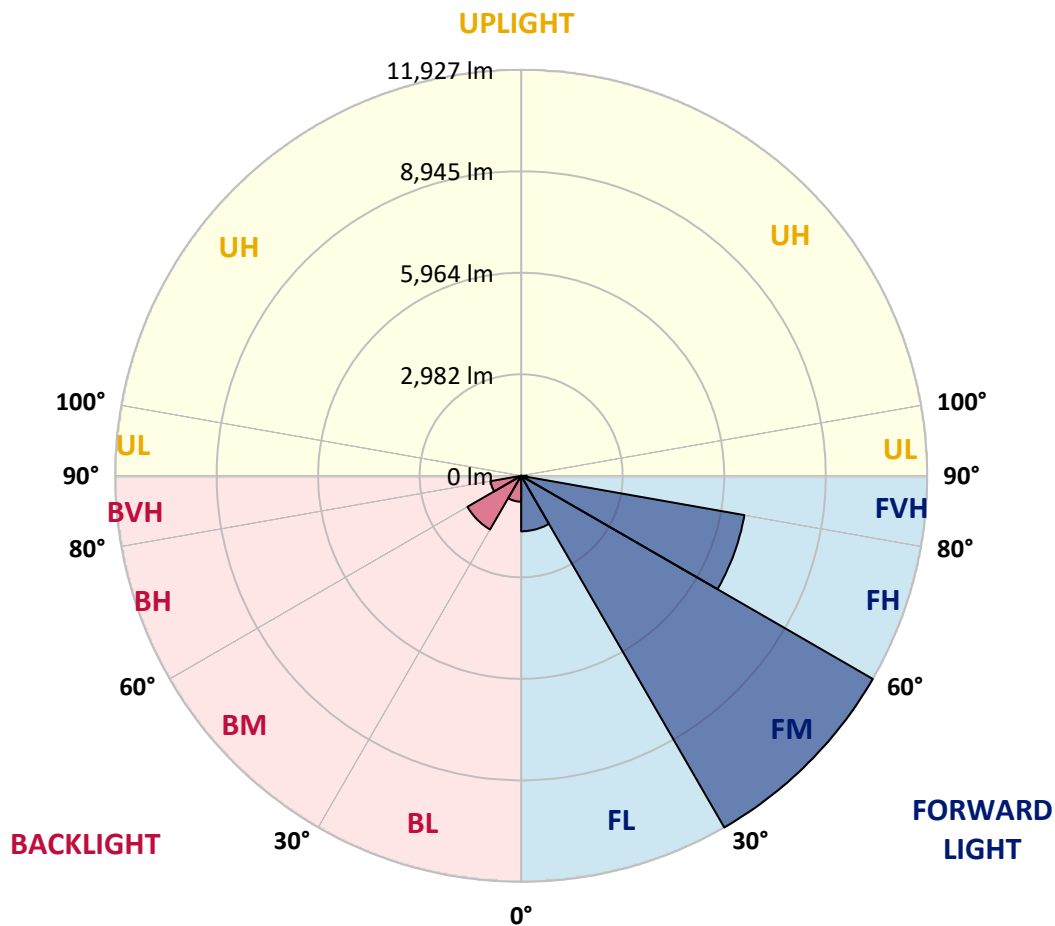
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1630.4	6.8			
FM	(30°-60°)	11927.1	49.9			
FH	(60°-80°)	6658.7	27.9			G3/7500
FVH	(80°-90°)	157.1	0.7			G2/225
BL	(0°-30°)	759.8	3.2	B2/1000		
BM	(30°-60°)	1821.9	7.6	B2/2500		
BH	(60°-80°)	916.5	3.8	B2/1000		G2/1000
BVH	(80°-90°)	12.6	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°	2947.7	2947.7	2947.7	2947.7	2947.7	2947.7	2947.7	2947.7	2947.7	2947.7	2947.7
2.5°	3016.7	3008.5	3020.0	3015.1	3011.8	3005.2	3002.0	2998.7	2992.1	2987.2	2967.5
5°	3025.0	3020.0	3031.5	3041.4	3051.3	3061.1	3066.0	3072.6	3066.0	3052.9	3033.2
7.5°	2956.0	2952.7	2977.3	3006.9	3051.3	3089.0	3130.1	3153.1	3154.8	3149.8	3128.5
10°	2951.0	2942.8	2967.5	3003.6	3061.1	3128.5	3200.8	3250.1	3256.6	3278.0	3255.0
12.5°	3028.2	3020.0	3054.5	3094.0	3153.1	3223.8	3312.5	3381.5	3391.4	3421.0	3404.5
15°	3158.1	3146.6	3186.0	3236.9	3312.5	3393.0	3486.7	3549.1	3557.3	3593.5	3563.9
17.5°	3309.2	3297.7	3343.7	3397.9	3480.1	3590.2	3698.6	3767.6	3777.5	3800.5	3746.3
20°	3503.1	3488.3	3524.5	3573.8	3660.8	3792.3	3922.1	4020.7	4019.0	4019.0	3930.3
22.5°	3728.2	3705.2	3736.4	3775.9	3858.0	4017.4	4189.9	4306.6	4306.6	4260.6	4114.3
25°	3969.8	3946.7	3981.3	4017.4	4089.7	4270.4	4472.5	4617.1	4623.7	4544.8	4311.5
27.5°	4272.1	4242.5	4268.8	4311.5	4354.2	4538.3	4778.2	4945.8	4949.0	4827.5	4498.8
30°	4853.7	4769.9	4687.8	4641.8	4661.5	4843.9	5100.2	5285.9	5302.3	5134.7	4702.6
32.5°	5918.5	5902.0	5612.9	5234.9	5037.8	5172.5	5460.0	5683.5	5693.4	5478.1	4967.1
35°	7573.1	7553.4	7088.4	6368.7	5726.2	5612.9	5897.1	6161.7	6155.1	5911.9	5310.5
37.5°	9548.1	9530.0	8917.2	7954.3	6914.2	6278.3	6460.7	6738.4	6779.5	6460.7	5754.2
40°	11235.6	11168.2	10780.4	9852.1	8491.6	7382.5	7262.5	7446.6	7489.3	7111.4	6317.8
42.5°	12513.9	12456.4	12259.2	11679.2	10400.9	9015.7	8207.3	8278.0	8325.6	7872.1	6965.1
45°	13176.1	13162.9	13241.8	13187.6	12346.3	11020.3	9558.0	9263.8	9281.9	8715.0	7699.6
47.5°	13269.7	13263.2	13623.0	14132.4	14019.0	13281.2	11291.4	10492.9	10428.8	9666.4	8498.2
50°	12717.7	12704.5	13394.6	14349.3	15136.3	15180.7	13259.9	11878.0	11736.7	10650.6	9331.2
52.5°	10954.6	10951.3	12085.1	13673.9	15529.0	16843.5	15205.3	13399.6	13162.9	11692.4	10211.9
55°	8429.1	8489.9	9789.6	11667.7	14812.6	17643.7	16952.0	15088.7	14725.5	12740.7	11023.6
57.5°	5971.1	6059.8	7344.7	9017.4	12591.1	17170.5	18133.3	16781.1	16390.0	13785.7	11846.8
60°	3207.3	3286.2	4572.8	6569.1	9367.4	15405.8	18756.1	18250.0	17880.3	14778.1	12589.5
62.5°	1910.9	1937.2	2469.6	4240.9	6335.8	11769.6	18491.5	19369.0	19065.0	15611.2	13235.2
65°	1372.0	1376.9	1644.8	2589.5	3846.5	7150.8	16636.5	19904.6	19811.0	16238.8	13713.4
67.5°	1155.1	1151.8	1263.6	1720.3	2620.8	3582.0	12750.5	19147.1	19544.8	16636.5	13984.5
70°	990.8	995.7	1127.2	1260.3	1970.1	2027.6	6339.1	16671.0	17518.8	16741.6	13968.1
72.5°	737.8	754.2	875.8	1148.5	1487.0	1395.0	2188.6	12361.1	13894.1	15773.8	13243.5
75°	520.9	529.1	616.2	966.1	1109.1	1015.4	1117.3	6390.0	8355.2	12093.3	10839.6
77.5°	400.9	415.7	466.6	675.3	1092.7	713.1	683.5	2211.6	3397.9	7305.3	7431.8
80°	216.9	243.2	336.8	488.0	767.3	504.4	338.5	880.7	1151.8	3416.0	2865.6
82.5°	111.7	124.9	235.0	351.6	437.1	440.4	167.6	366.4	474.9	1054.9	392.7
85°	44.4	54.2	157.7	193.9	225.1	216.9	75.6	147.9	170.9	292.5	119.9
87.5°	9.9	16.4	57.5	44.4	42.7	46.0	18.1	34.5	32.9	34.5	21.4
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°	2947.7	2947.7	2947.7	2947.7	2947.7	2947.7	2947.7	2947.7	2947.7	2947.7	2947.7
2.5°	2965.8	2959.2	2941.2	2921.4	2898.4	2885.3	2877.1	2875.4	2863.9	2855.7	2863.9
5°	3015.1	3008.5	2974.0	2932.9	2888.6	2854.1	2821.2	2791.6	2748.9	2740.7	2737.4
7.5°	3113.7	3095.6	3039.8	2983.9	2900.1	2799.9	2678.3	2538.6	2413.7	2375.9	2357.9
10°	3235.3	3210.6	3140.0	3041.4	2855.7	2583.0	2288.9	2016.1	1799.2	1738.4	1715.4
12.5°	3373.3	3351.9	3258.3	3075.9	2670.1	2175.5	1725.3	1386.8	1176.5	1123.9	1109.1
15°	3537.6	3506.4	3376.6	3023.3	2338.1	1653.0	1184.7	984.2	908.6	898.8	888.9
17.5°	3711.8	3660.8	3481.7	2834.4	1891.2	1174.8	915.2	857.7	824.8	815.0	810.1
20°	3871.2	3805.4	3544.2	2548.5	1413.1	915.2	819.9	782.1	752.5	741.0	734.5
22.5°	4030.5	3936.9	3544.2	2159.0	1059.8	811.7	752.5	718.0	683.5	668.7	660.5
25°	4196.5	4071.6	3481.7	1725.3	852.8	744.3	688.5	650.7	621.1	603.0	596.4
27.5°	4357.5	4185.0	3338.8	1314.5	759.1	685.2	629.3	593.2	565.2	552.1	552.1
30°	4510.3	4296.7	3138.3	997.4	698.3	627.7	575.1	543.9	515.9	502.8	504.4
32.5°	4717.4	4438.0	2924.7	818.3	645.7	573.4	525.8	496.2	471.6	461.7	461.7
35°	5004.9	4646.7	2740.7	803.5	601.4	529.1	481.4	453.5	428.9	420.6	420.6
37.5°	5412.4	4983.5	2643.8	902.1	565.2	489.6	445.3	415.7	392.7	386.1	384.5
40°	5915.2	5440.3	2696.3	1000.7	540.6	455.1	412.4	382.8	363.1	354.9	353.3
42.5°	6511.6	6003.9	2987.2	1076.2	524.2	425.6	381.2	348.3	335.2	331.9	331.9
45°	7196.8	6623.4	3432.5	1156.7	497.9	397.6	350.0	325.3	315.5	313.8	312.2
47.5°	7975.6	7303.6	3948.4	1257.0	471.6	371.3	325.3	308.9	300.7	297.4	297.4
50°	8747.9	7988.8	4479.1	1312.8	450.2	346.7	305.6	292.5	285.9	284.3	284.3
52.5°	9556.3	8693.7	4908.0	1260.3	432.1	327.0	289.2	279.3	272.8	271.1	271.1
55°	10326.9	9263.8	4981.9	1069.7	396.0	307.3	271.1	266.2	258.0	258.0	256.3
57.5°	10990.8	9549.7	4459.4	785.4	359.8	277.7	253.0	248.1	241.5	239.9	238.3
60°	11600.3	9467.6	3442.3	529.1	320.4	248.1	230.0	226.7	220.2	212.0	210.3
62.5°	11943.8	9106.1	2354.6	345.1	281.0	216.9	203.7	202.1	187.3	170.9	167.6
65°	12073.6	8363.4	1468.9	251.4	235.0	185.7	175.8	172.5	151.2	133.1	131.4
67.5°	11960.2	7141.0	741.0	198.8	185.7	154.5	144.6	144.6	129.8	113.4	111.7
70°	11506.7	5353.2	312.2	159.4	143.0	118.3	118.3	124.9	110.1	92.0	90.4
72.5°	10522.5	3601.7	166.0	121.6	106.8	83.8	96.9	101.9	87.1	69.0	69.0
75°	8365.1	2196.8	115.0	90.4	67.4	59.2	73.9	77.2	59.2	46.0	44.4
77.5°	5721.3	1261.9	77.2	57.5	42.7	34.5	50.9	47.7	31.2	21.4	23.0
80°	2512.3	525.8	44.4	26.3	16.4	13.1	18.1	13.1	9.9	6.6	6.6
82.5°	294.1	123.2	16.4	9.9	6.6	3.3	1.6	0.0	0.0	0.0	0.0
85°	60.8	14.8	8.2	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.5	3.3	1.6	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)