

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: P941786

Luminaire Tested: **GALN-SB5C-727-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27520 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

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

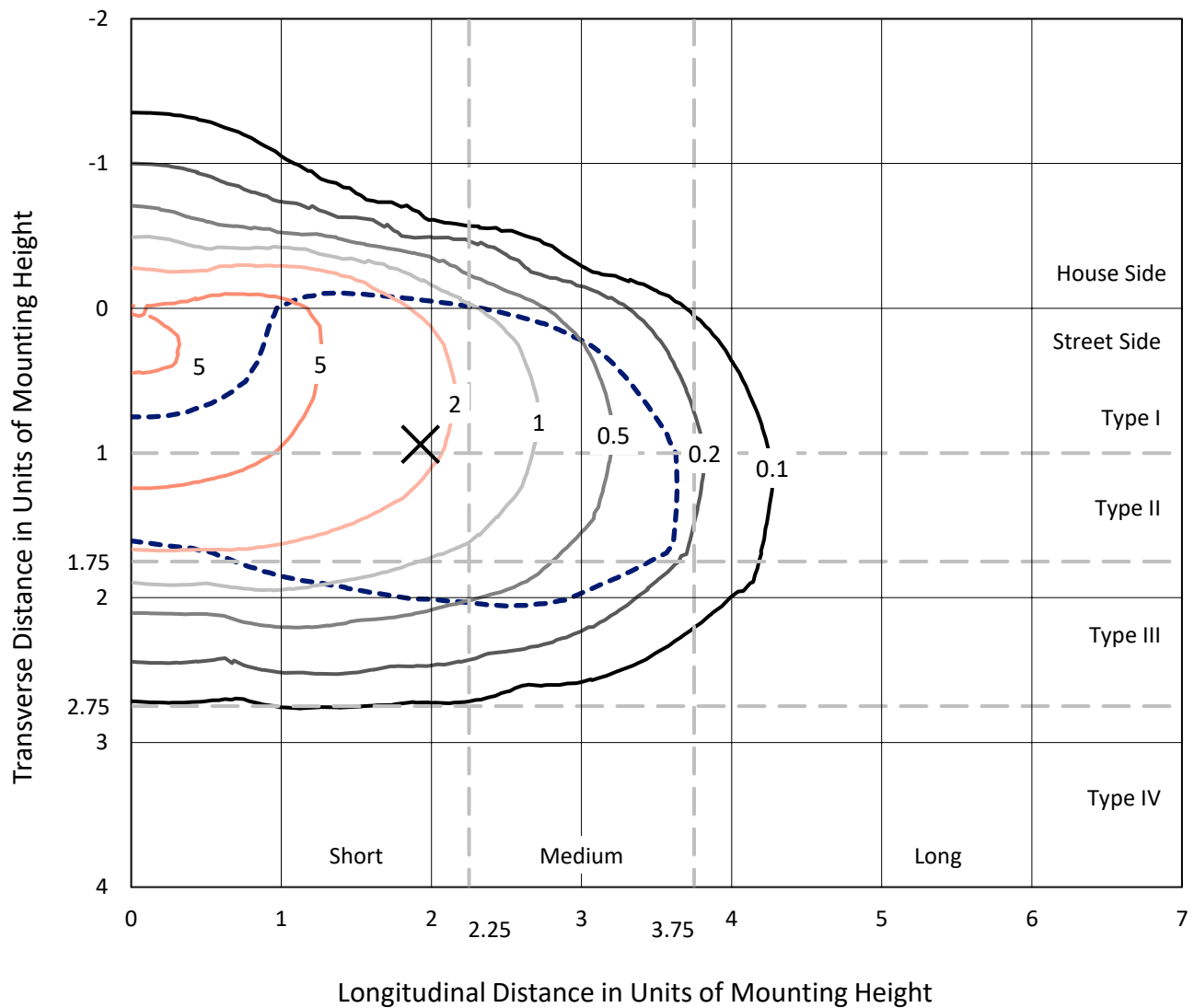


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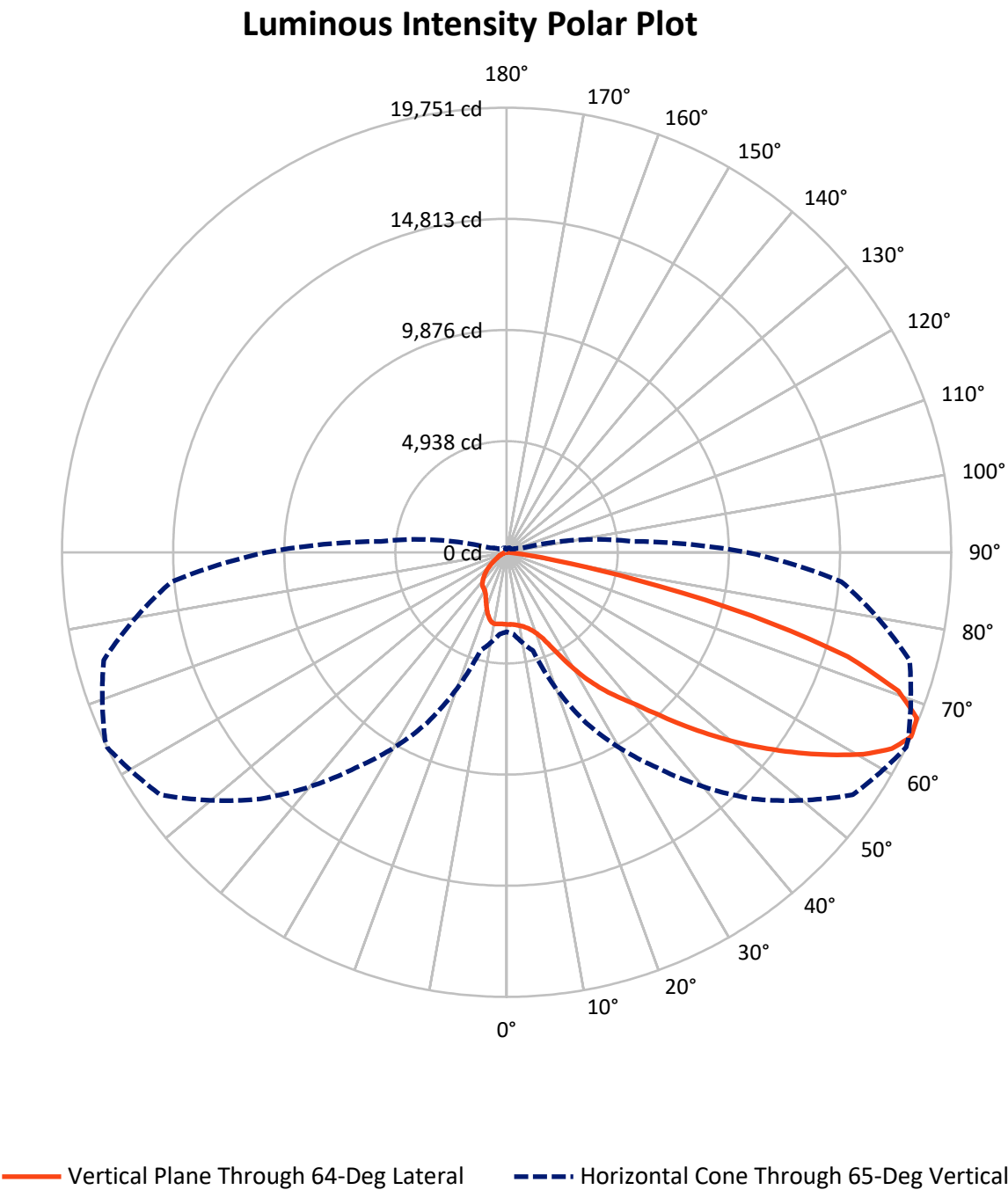
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
Type III - Short - N/A

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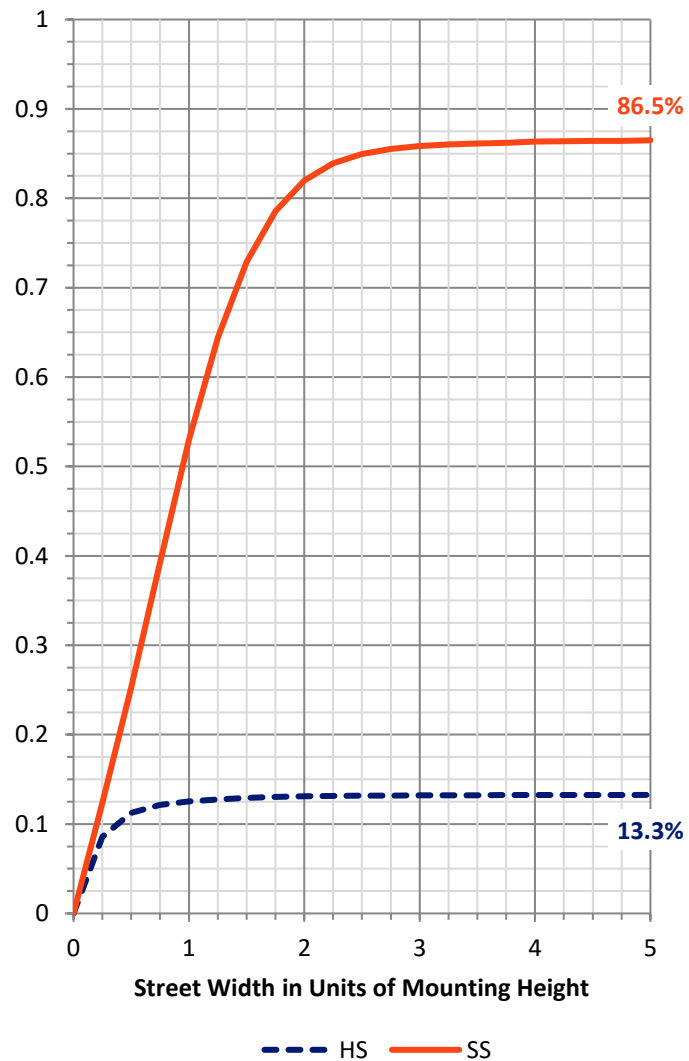
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3680.3	0.0	3680.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	23839.7	0.0	23839.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	27520.0	0.0	27520.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.3	1.1
10°-20°	801.0	2.9
20°-30°	1517.8	5.5
30°-40°	3071.2	11.2
40°-50°	5231.9	19.0
50°-60°	7115.0	25.9
60°-70°	6681.3	24.3
70°-80°	2676.8	9.7
80°-90°	129.7	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°	27520.0	100.0
0°-180°	27520.0	100.0

Coefficient of Utilization



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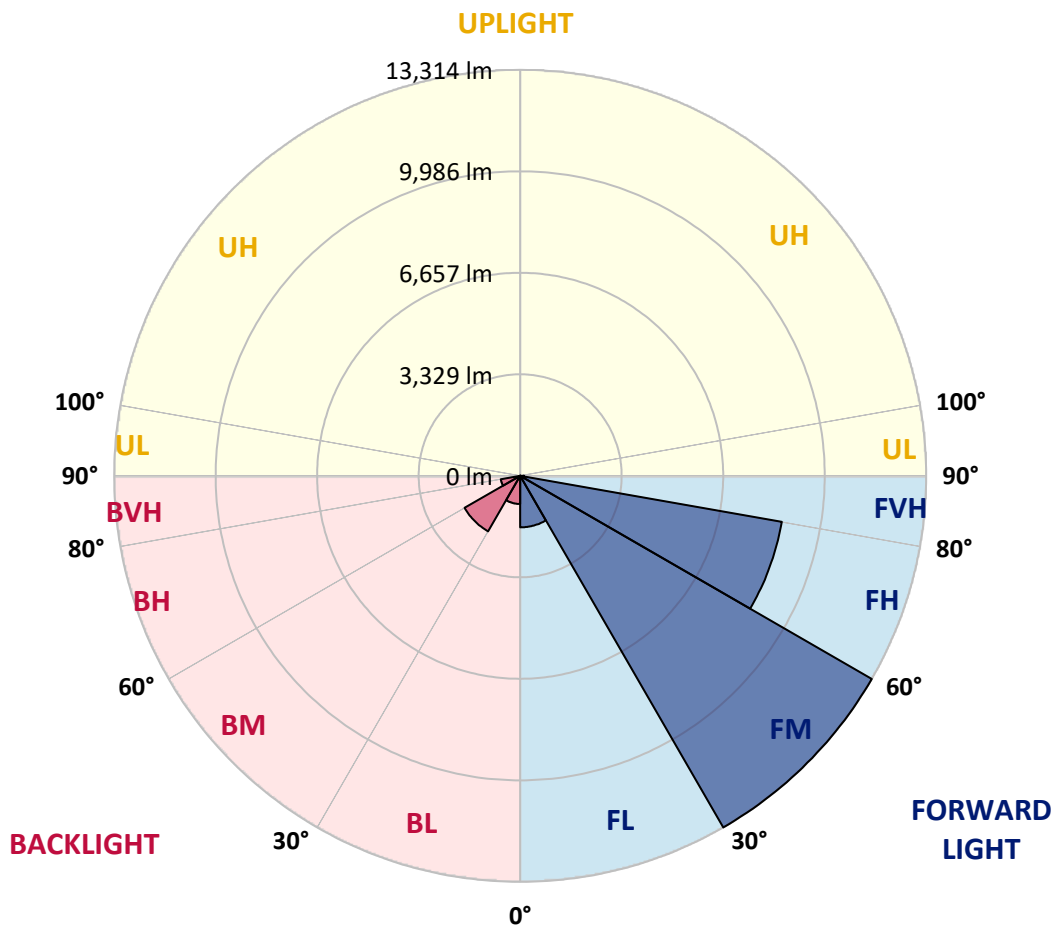
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1690.0	6.1			
FM	(30°-60°)	13314.1	48.4			
FH	(60°-80°)	8712.2	31.7			G4/12000
FVH	(80°-90°)	123.3	0.4			G2/225
BL	(0°-30°)	924.0	3.4	B2/1000		
BM	(30°-60°)	2104.0	7.6	B2/2500		
BH	(60°-80°)	645.9	2.3	B2/1000		G2/1000
BVH	(80°-90°)	6.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3200.9	3200.9	3200.9	3200.9	3200.9	3200.9	3200.9	3200.9	3200.9	3200.9	3200.9
2.5°	3189.8	3211.9	3206.4	3200.9	3199.0	3202.7	3204.6	3202.7	3202.7	3202.7	3204.6
5°	3128.9	3147.4	3147.4	3160.3	3178.7	3200.9	3217.5	3221.2	3224.8	3230.4	3228.5
7.5°	3012.7	3027.4	3038.5	3080.9	3127.1	3186.1	3235.9	3261.7	3265.4	3285.7	3293.1
10°	2933.4	2951.8	2970.3	3014.5	3080.9	3169.5	3254.4	3317.1	3326.3	3374.3	3396.4
12.5°	2929.7	2948.1	2972.1	3020.1	3097.5	3191.6	3295.0	3385.3	3402.0	3472.1	3518.2
15°	2968.4	2990.5	3012.7	3071.7	3154.7	3269.1	3379.8	3492.4	3509.0	3608.6	3658.4
17.5°	3047.7	3077.3	3093.9	3152.9	3241.4	3368.7	3514.5	3643.6	3658.4	3774.6	3837.3
20°	3204.6	3239.6	3245.1	3293.1	3379.8	3516.3	3689.8	3850.3	3868.7	4001.5	4071.6
22.5°	3529.2	3579.1	3534.8	3558.8	3636.3	3772.8	3961.0	4163.9	4189.7	4341.0	4403.7
25°	4101.2	4171.3	4056.9	4016.3	4049.5	4191.6	4427.7	4684.1	4713.7	4835.4	4866.8
27.5°	5224.7	5134.3	4960.9	4791.1	4691.5	4772.7	5038.4	5355.7	5392.6	5510.6	5473.8
30°	6458.9	6379.6	6145.3	5768.9	5532.8	5519.9	5765.2	6119.5	6161.9	6274.4	6161.9
32.5°	7695.0	7619.3	7364.7	6901.7	6492.1	6289.2	6458.9	6851.9	6874.0	6946.0	6779.9
35°	8910.8	8833.3	8578.7	8104.5	7600.9	7139.7	7106.5	7549.2	7556.6	7632.3	7385.0
37.5°	10133.9	10069.3	9798.1	9333.2	8837.0	8200.5	7892.4	8209.7	8218.9	8292.7	8036.3
40°	11006.5	11034.2	10847.9	10488.1	10062.0	9366.4	8774.2	8912.6	8857.3	8980.9	8827.7
42.5°	11755.6	11810.9	11648.6	11467.8	11220.5	10608.0	9866.4	9842.4	9753.9	9820.3	9661.6
45°	12403.1	12449.2	12303.5	12261.1	12255.5	11825.7	11060.0	10916.1	10792.5	10779.6	10589.6
47.5°	12641.1	12729.7	12792.4	12934.4	13211.2	13030.4	12294.3	12071.0	11932.7	11831.2	11530.5
50°	12731.5	12825.6	13039.6	13452.8	14107.8	14185.3	13522.9	13272.0	13102.3	12917.8	12475.1
52.5°	12609.7	12777.6	13065.4	13760.9	14711.0	15111.4	14701.8	14482.3	14288.6	13987.9	13331.1
55°	11892.1	12060.0	12648.5	13757.2	15011.8	15760.8	15816.1	15718.4	15500.7	15026.5	14022.9
57.5°	10379.3	10628.3	11560.0	13288.6	15006.2	16319.8	16908.3	16978.4	16734.9	16056.0	14567.1
60°	8283.5	8621.1	9757.6	12250.0	14543.2	16622.3	17865.8	18216.3	17958.0	17070.6	15008.1
62.5°	5780.0	6171.1	7246.7	10622.8	13484.2	16404.6	18565.0	19212.6	19017.0	17978.3	15177.8
65°	3525.6	3651.0	4518.1	8359.1	11683.6	15493.3	18780.8	19751.3	19686.7	18533.6	14926.9
67.5°	2348.5	2453.7	2702.7	5732.0	9069.4	13672.4	18264.3	19657.2	19675.6	18443.2	14008.2
70°	1415.0	1505.4	1667.8	3333.7	5877.8	10822.0	16664.8	18458.0	18565.0	17234.8	12266.6
72.5°	583.0	643.9	791.5	1511.0	3044.0	6868.5	13270.2	15847.5	16096.6	14491.5	9414.4
75°	330.2	361.6	464.9	758.2	1320.9	3200.9	8038.1	11250.1	11617.2	9988.2	5663.8
77.5°	219.5	234.3	300.7	490.7	743.5	1092.2	3435.2	5861.2	6562.2	5455.3	2451.8
80°	147.6	160.5	206.6	328.4	483.4	468.6	1094.0	2171.4	2671.4	1874.4	597.7
82.5°	99.6	101.5	147.6	215.9	306.2	226.9	322.9	675.2	848.6	542.4	226.9
85°	57.2	55.3	108.8	125.5	136.5	94.1	97.8	202.9	265.7	228.8	129.1
87.5°	7.4	11.1	42.4	33.2	18.4	20.3	20.3	35.1	51.7	55.3	27.7
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°	3200.9	3200.9	3200.9	3200.9	3200.9	3200.9	3200.9	3200.9	3200.9	3200.9	3200.9
2.5°	3204.6	3202.7	3197.2	3191.6	3178.7	3171.3	3175.0	3171.3	3169.5	3171.3	3178.7
5°	3228.5	3223.0	3208.2	3189.8	3164.0	3132.6	3112.3	3082.8	3055.1	3038.5	3042.2
7.5°	3293.1	3287.6	3267.3	3215.6	3132.6	3001.6	2881.7	2776.5	2697.2	2651.1	2652.9
10°	3396.4	3387.2	3355.8	3241.4	3023.8	2737.8	2499.8	2302.4	2173.3	2112.4	2106.8
12.5°	3518.2	3507.1	3451.8	3217.5	2817.1	2370.7	2042.3	1822.7	1702.8	1649.3	1643.8
15°	3662.1	3647.3	3538.5	3103.1	2516.4	1964.8	1664.1	1499.9	1422.4	1374.4	1376.3
17.5°	3841.0	3815.2	3603.0	2931.5	2189.9	1654.9	1431.6	1308.0	1239.8	1193.6	1189.9
20°	4073.5	4031.1	3654.7	2726.7	1889.2	1459.3	1274.8	1171.5	1119.8	1079.3	1071.9
22.5°	4398.2	4337.3	3717.4	2505.3	1677.0	1324.6	1158.6	1082.9	1040.5	994.4	987.0
25°	4800.4	4728.4	3794.9	2300.6	1531.2	1208.4	1073.7	1011.0	961.2	907.7	902.1
27.5°	5363.1	5233.9	3887.2	2132.7	1405.8	1108.8	996.2	926.1	868.9	824.7	815.4
30°	5990.3	5778.2	3968.3	2031.2	1291.4	1016.5	894.8	824.7	771.2	739.8	734.3
32.5°	6584.4	6296.6	4021.8	1986.9	1188.1	911.4	784.1	708.4	667.8	658.6	664.2
35°	7145.2	6765.2	4016.3	1944.5	1095.9	806.2	675.2	597.7	566.4	571.9	571.9
37.5°	7790.9	7265.1	3977.6	1878.1	1020.2	710.3	581.1	512.9	485.2	487.0	494.4
40°	8541.8	7842.6	3953.6	1752.6	937.2	621.7	503.7	448.3	428.0	420.6	418.8
42.5°	9342.5	8401.6	3957.3	1610.6	833.9	542.4	450.2	404.0	385.6	380.0	378.2
45°	10146.8	8934.7	3962.8	1463.0	725.0	481.5	411.4	372.7	361.6	354.2	354.2
47.5°	10903.2	9388.6	3859.5	1304.3	618.0	435.4	380.0	354.2	345.0	335.8	335.8
50°	11608.0	9691.1	3610.4	1119.8	533.2	398.5	356.1	337.6	328.4	319.2	319.2
52.5°	12155.9	9739.1	3199.0	929.8	474.1	370.8	341.3	324.7	313.6	304.4	302.6
55°	12399.4	9438.4	2614.2	752.7	428.0	346.8	326.5	309.9	297.0	287.8	286.0
57.5°	12336.7	8805.6	2038.6	605.1	383.7	322.9	308.1	297.0	282.3	267.5	265.7
60°	12028.6	7958.8	1536.8	503.7	343.1	297.0	287.8	278.6	258.3	236.1	232.5
62.5°	11495.4	6894.3	1095.9	416.9	298.9	267.5	263.8	256.4	226.9	186.3	182.6
65°	10680.0	5601.0	738.0	346.8	256.4	234.3	236.1	223.2	184.5	138.4	134.7
67.5°	9488.2	4095.6	472.3	284.1	214.0	195.6	197.4	190.0	156.8	118.1	112.5
70°	7969.9	2712.0	308.1	215.9	171.6	151.3	162.3	164.2	132.8	95.9	92.2
72.5°	5842.7	1601.4	215.9	160.5	125.5	105.2	132.8	136.5	107.0	72.0	68.3
75°	3330.0	760.1	162.3	116.2	77.5	73.8	103.3	103.3	73.8	48.0	44.3
77.5°	1398.4	317.3	114.4	75.6	44.3	42.4	70.1	64.6	36.9	22.1	22.1
80°	404.0	142.1	60.9	36.9	18.4	16.6	27.7	20.3	9.2	3.7	3.7
82.5°	158.7	62.7	24.0	14.8	7.4	7.4	3.7	0.0	0.0	0.0	0.0
85°	94.1	25.8	11.1	5.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.0	5.5	3.7	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)