

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: P956290

Luminaire Tested: **GALN-SB9A-727-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956290
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-SB9A-727-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 350mA 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: 28963 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 255.5
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

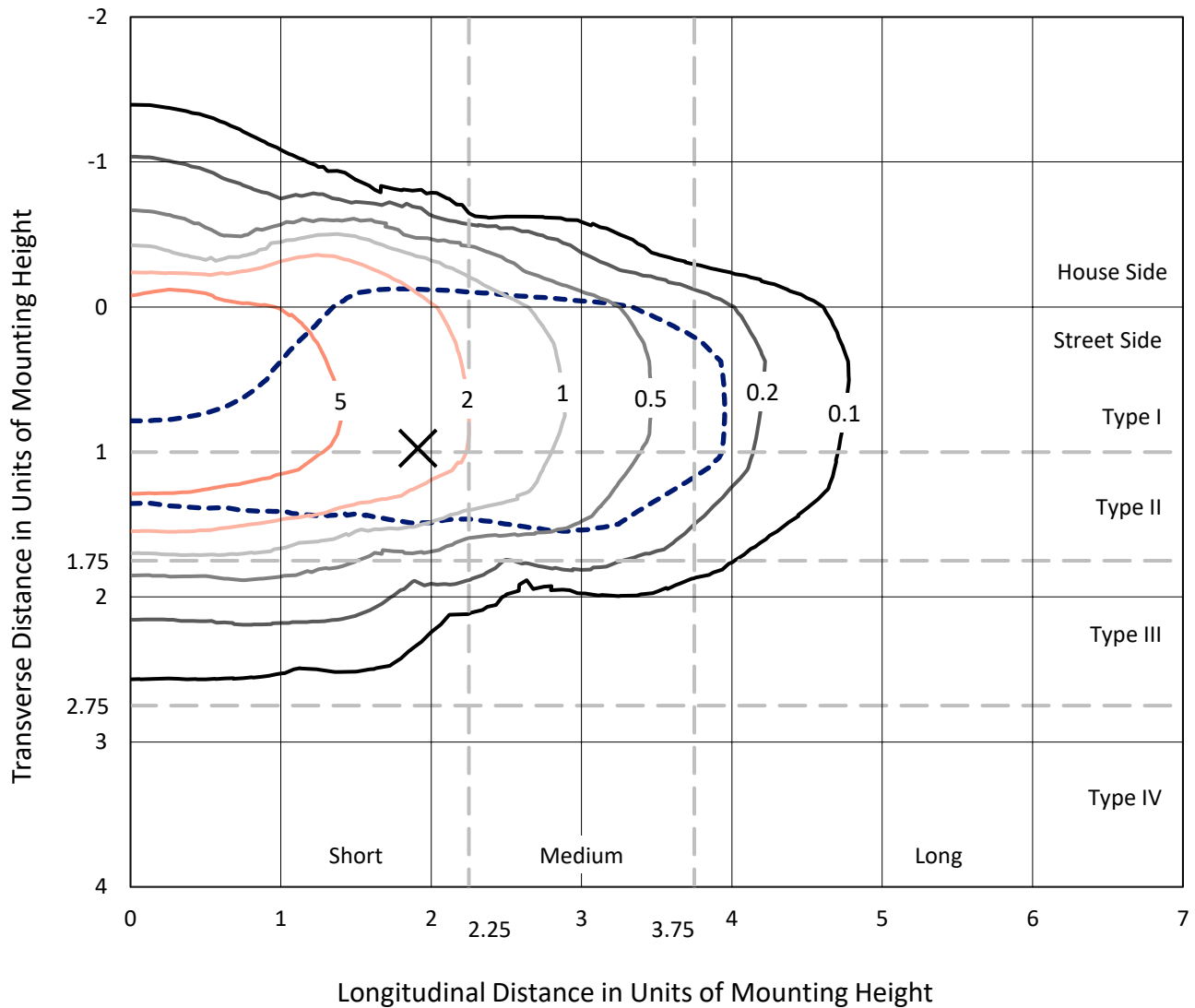


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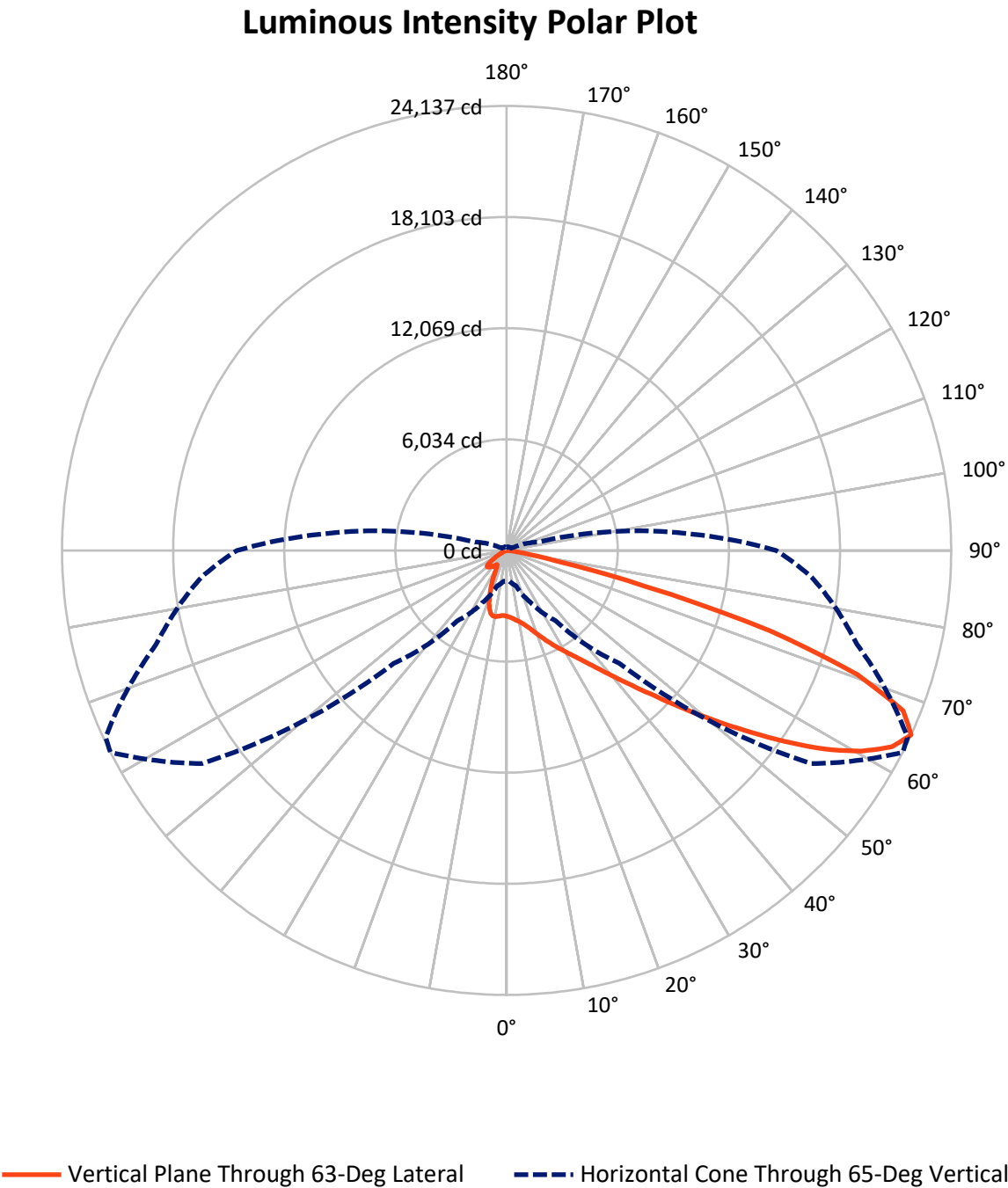
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
Type II - Short - N/A

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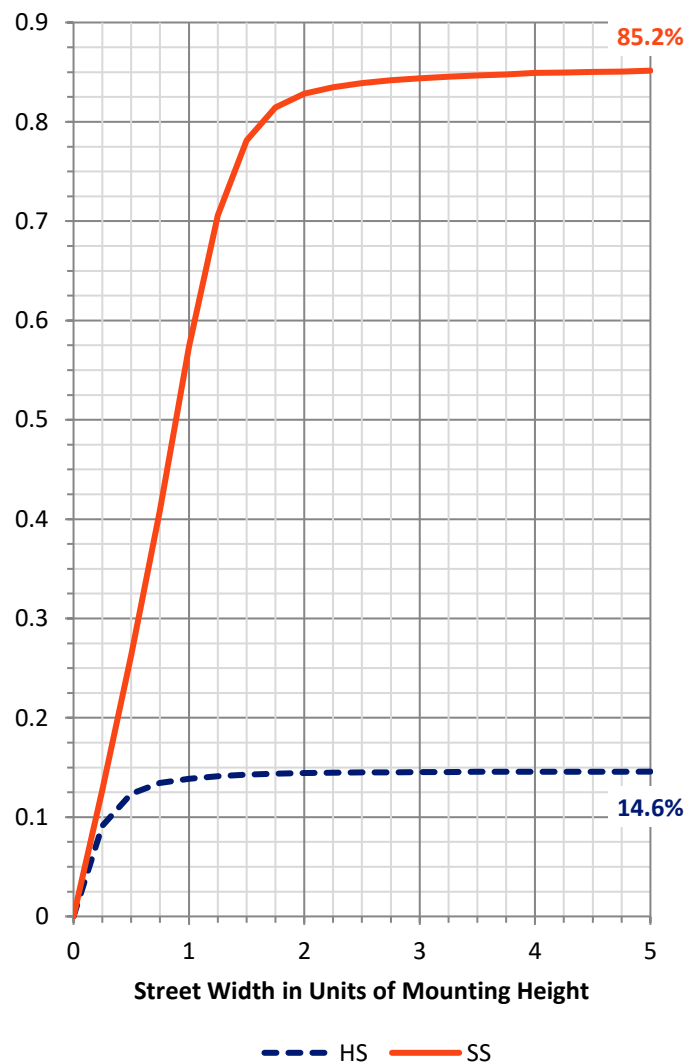
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4257.3	0.0	4257.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	24705.7	0.0	24705.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	28963.0	0.0	28963.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.8	1.2
10°-20°	934.5	3.2
20°-30°	1627.2	5.6
30°-40°	2932.8	10.1
40°-50°	5816.7	20.1
50°-60°	7923.3	27.4
60°-70°	6324.3	21.8
70°-80°	2861.9	9.9
80°-90°	205.7	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°	28963.0	100.0
0°-180°	28963.0	100.0

Coefficient of Utilization



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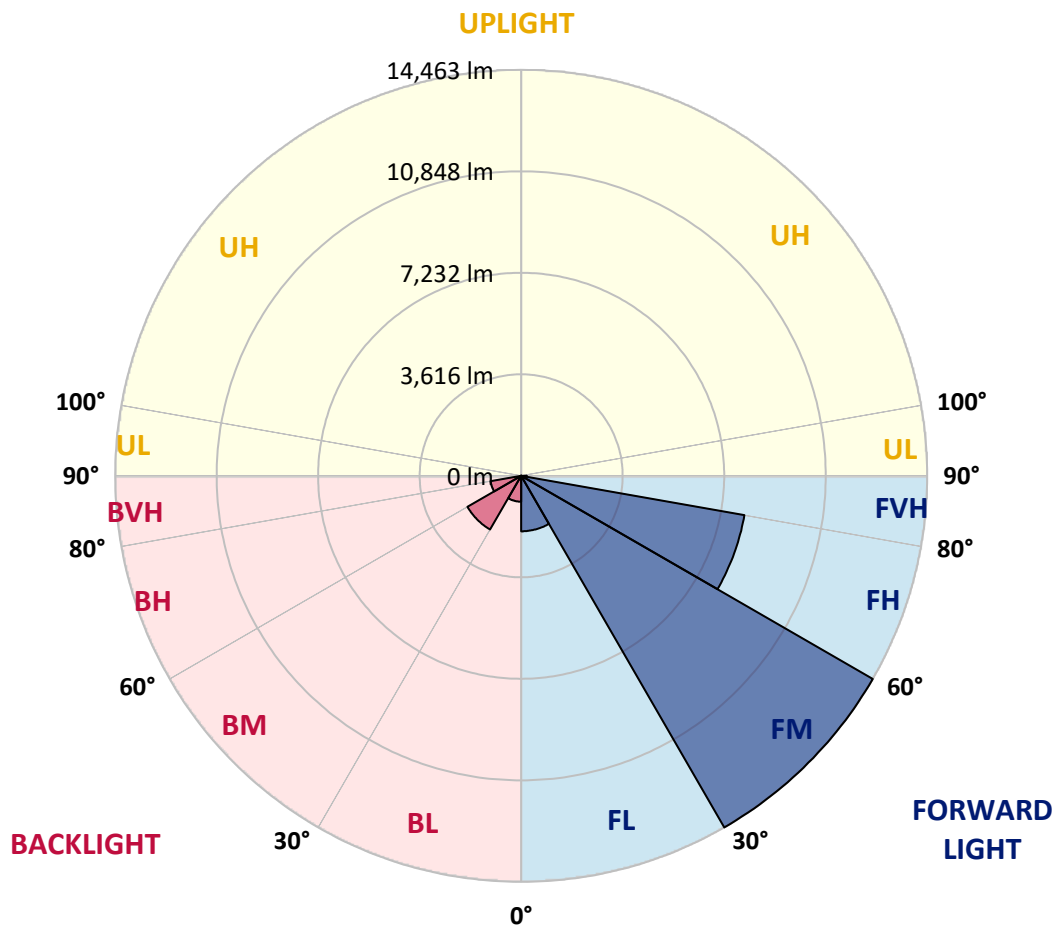
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1977.1	6.8			
FM	(30°-60°)	14463.4	49.9			
FH	(60°-80°)	8074.7	27.9			G4/12000
FVH	(80°-90°)	190.4	0.7			G2/225
BL	(0°-30°)	921.4	3.2	B2/1000		
BM	(30°-60°)	2209.3	7.6	B2/2500		
BH	(60°-80°)	1111.4	3.8	B3/2500		G3/2500
BVH	(80°-90°)	15.3	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3574.6	3574.6	3574.6	3574.6	3574.6	3574.6	3574.6	3574.6	3574.6	3574.6	3574.6
2.5°	3658.3	3648.3	3662.3	3656.3	3652.3	3644.3	3640.3	3636.3	3628.4	3622.4	3598.5
5°	3668.2	3662.3	3676.2	3688.2	3700.1	3712.1	3718.0	3726.0	3718.0	3702.1	3678.2
7.5°	3584.5	3580.6	3610.4	3646.3	3700.1	3745.9	3795.8	3823.6	3825.6	3819.7	3793.8
10°	3578.6	3568.6	3598.5	3642.3	3712.1	3793.8	3881.4	3941.2	3949.2	3975.1	3947.2
12.5°	3672.2	3662.3	3704.1	3751.9	3823.6	3909.3	4016.9	4100.6	4112.6	4148.4	4128.5
15°	3829.6	3815.7	3863.5	3925.3	4016.9	4114.6	4228.1	4303.8	4313.8	4357.6	4321.8
17.5°	4012.9	3999.0	4054.8	4120.5	4220.2	4353.7	4485.2	4568.8	4580.8	4608.7	4542.9
20°	4248.1	4230.1	4274.0	4333.7	4439.3	4598.7	4756.1	4875.7	4873.7	4873.7	4766.1
22.5°	4521.0	4493.1	4531.0	4578.8	4678.4	4871.7	5080.9	5222.4	5222.4	5166.6	4989.3
25°	4813.9	4786.0	4827.9	4871.7	4959.4	5178.6	5423.6	5599.0	5607.0	5511.3	5228.4
27.5°	5180.6	5144.7	5176.6	5228.4	5280.2	5503.3	5794.2	5997.5	6001.5	5854.0	5455.5
30°	5885.9	5784.3	5684.7	5628.9	5652.8	5873.9	6184.8	6409.9	6429.9	6226.6	5702.6
32.5°	7177.1	7157.1	6806.4	6348.2	6109.1	6272.5	6621.1	6892.1	6904.1	6643.1	6023.4
35°	9183.5	9159.6	8595.7	7723.0	6943.9	6806.4	7151.2	7472.0	7464.0	7169.1	6439.8
37.5°	11578.5	11556.6	10813.4	9645.8	8384.5	7613.4	7834.6	8171.3	8221.1	7834.6	6977.8
40°	13624.9	13543.2	13072.9	11947.2	10297.3	8952.4	8806.9	9030.1	9081.9	8623.6	7661.2
42.5°	15175.0	15105.3	14866.2	14162.8	12612.7	10933.0	9952.6	10038.3	10096.1	9546.2	8446.3
45°	15978.0	15962.1	16057.7	15992.0	14971.8	13363.8	11590.5	11233.8	11255.7	10568.3	9337.0
47.5°	16091.6	16083.6	16520.0	17137.7	17000.2	16105.5	13692.6	12724.2	12646.5	11722.0	10305.3
50°	15422.1	15406.2	16243.0	17400.7	18355.1	18408.9	16079.6	14403.9	14232.6	12915.5	11315.5
52.5°	13284.1	13280.1	14655.0	16581.8	18831.3	20425.3	18438.8	16249.0	15962.1	14178.8	12383.5
55°	10221.6	10295.4	11871.4	14148.9	17962.6	21395.7	20556.8	18297.3	17857.0	15450.0	13367.8
57.5°	7240.8	7348.4	8906.6	10935.0	15268.7	20821.8	21989.5	20349.6	19875.4	16717.2	14366.1
60°	3889.4	3985.0	5545.2	7966.1	11359.4	18681.9	22744.6	22130.9	21682.6	17920.7	15266.7
62.5°	2317.3	2349.2	2994.8	5142.7	7683.2	14272.4	22423.8	23487.8	23119.2	18930.9	16049.8
65°	1663.8	1669.7	1994.5	3140.2	4664.5	8671.4	20174.3	24137.4	24023.8	19692.1	16629.6
67.5°	1400.7	1396.8	1532.2	2086.2	3178.1	4343.7	15462.0	23218.8	23701.0	20174.3	16958.3
70°	1201.5	1207.5	1366.9	1528.3	2389.0	2458.8	7687.1	20216.1	21244.3	20301.8	16938.4
72.5°	894.6	914.6	1062.0	1392.8	1803.2	1691.6	2654.0	14989.7	16848.8	19128.2	16059.7
75°	631.6	641.6	747.2	1171.6	1345.0	1231.4	1354.9	7748.9	10132.0	14664.9	13144.7
77.5°	486.2	504.1	565.9	818.9	1325.0	864.8	828.9	2681.9	4120.5	8858.7	9012.2
80°	263.0	294.9	408.5	591.8	930.5	611.7	410.5	1068.0	1396.8	4142.4	3475.0
82.5°	135.5	151.4	284.9	426.4	530.0	534.0	203.2	444.3	575.8	1279.2	476.2
85°	53.8	65.8	191.3	235.1	273.0	263.0	91.7	179.3	207.2	354.7	145.5
87.5°	12.0	19.9	69.7	53.8	51.8	55.8	21.9	41.8	39.9	41.8	25.9
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°	3574.6	3574.6	3574.6	3574.6	3574.6	3574.6	3574.6	3574.6	3574.6	3574.6	3574.6
2.5°	3596.5	3588.5	3566.6	3542.7	3514.8	3498.9	3488.9	3486.9	3473.0	3463.0	3473.0
5°	3656.3	3648.3	3606.5	3556.6	3502.9	3461.0	3421.2	3385.3	3333.5	3323.5	3319.5
7.5°	3775.8	3753.9	3686.2	3618.4	3516.8	3395.3	3247.8	3078.4	2927.0	2881.2	2859.3
10°	3923.3	3893.4	3807.7	3688.2	3463.0	3132.2	2775.6	2444.8	2181.8	2108.1	2080.2
12.5°	4090.6	4064.7	3951.2	3730.0	3237.8	2638.1	2092.1	1681.7	1426.6	1362.9	1345.0
15°	4289.9	4252.0	4094.6	3666.2	2835.4	2004.5	1436.6	1193.5	1101.9	1089.9	1078.0
17.5°	4501.1	4439.3	4222.2	3437.1	2293.4	1424.7	1109.8	1040.1	1000.2	988.3	982.3
20°	4694.4	4614.7	4297.9	3090.4	1713.6	1109.8	994.3	948.4	912.6	898.6	890.7
22.5°	4887.7	4774.1	4297.9	2618.2	1285.2	984.3	912.6	870.7	828.9	811.0	801.0
25°	5088.9	4937.5	4222.2	2092.1	1034.1	902.6	834.9	789.0	753.2	731.3	723.3
27.5°	5284.2	5074.9	4048.8	1594.0	920.5	830.9	763.1	719.3	685.4	669.5	669.5
30°	5469.5	5210.4	3805.7	1209.5	846.8	761.1	697.4	659.5	625.7	609.7	611.7
32.5°	5720.5	5381.8	3546.7	992.3	783.1	695.4	637.6	601.7	571.9	559.9	559.9
35°	6069.2	5634.8	3323.5	974.3	729.3	641.6	583.8	549.9	520.0	510.1	510.1
37.5°	6563.4	6043.3	3206.0	1093.9	685.4	593.8	540.0	504.1	476.2	468.2	466.2
40°	7173.1	6597.2	3269.7	1213.4	655.5	551.9	500.1	464.3	440.3	430.4	428.4
42.5°	7896.4	7280.7	3622.4	1305.1	635.6	516.1	462.3	422.4	406.5	402.5	402.5
45°	8727.2	8031.8	4162.4	1402.7	603.7	482.2	424.4	394.5	382.6	380.6	378.6
47.5°	9671.7	8856.8	4788.0	1524.3	571.9	450.3	394.5	374.6	364.6	360.6	360.6
50°	10608.2	9687.6	5431.6	1592.0	546.0	420.4	370.6	354.7	346.7	344.7	344.7
52.5°	11588.5	10542.4	5951.7	1528.3	524.0	396.5	350.7	338.7	330.8	328.8	328.8
55°	12523.0	11233.8	6041.3	1297.1	480.2	372.6	328.8	322.8	312.8	312.8	310.8
57.5°	13328.0	11580.5	5407.7	952.4	436.4	336.7	306.8	300.9	292.9	290.9	288.9
60°	14067.2	11480.9	4174.3	641.6	388.5	300.9	279.0	275.0	267.0	257.0	255.0
62.5°	14483.6	11042.5	2855.3	418.4	340.7	263.0	247.1	245.1	227.1	207.2	203.2
65°	14641.0	10141.9	1781.3	304.9	284.9	225.2	213.2	209.2	183.3	161.4	159.4
67.5°	14503.6	8659.5	898.6	241.1	225.2	187.3	175.3	175.3	157.4	137.5	135.5
70°	13953.6	6491.6	378.6	193.3	173.3	143.5	143.5	151.4	133.5	111.6	109.6
72.5°	12760.1	4367.6	201.2	147.4	129.5	101.6	117.6	123.5	105.6	83.7	83.7
75°	10143.9	2664.0	139.5	109.6	81.7	71.7	89.7	93.6	71.7	55.8	53.8
77.5°	6938.0	1530.3	93.6	69.7	51.8	41.8	61.8	57.8	37.9	25.9	27.9
80°	3046.6	637.6	53.8	31.9	19.9	15.9	21.9	15.9	12.0	8.0	8.0
82.5°	356.7	149.4	19.9	12.0	8.0	4.0	2.0	0.0	0.0	0.0	0.0
85°	73.7	17.9	10.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.9	4.0	2.0	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)