

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: P943486

Luminaire Tested: **GALN-SB8A-727-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943486
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-SB8A-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 350mA 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: 26386 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 227.1
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

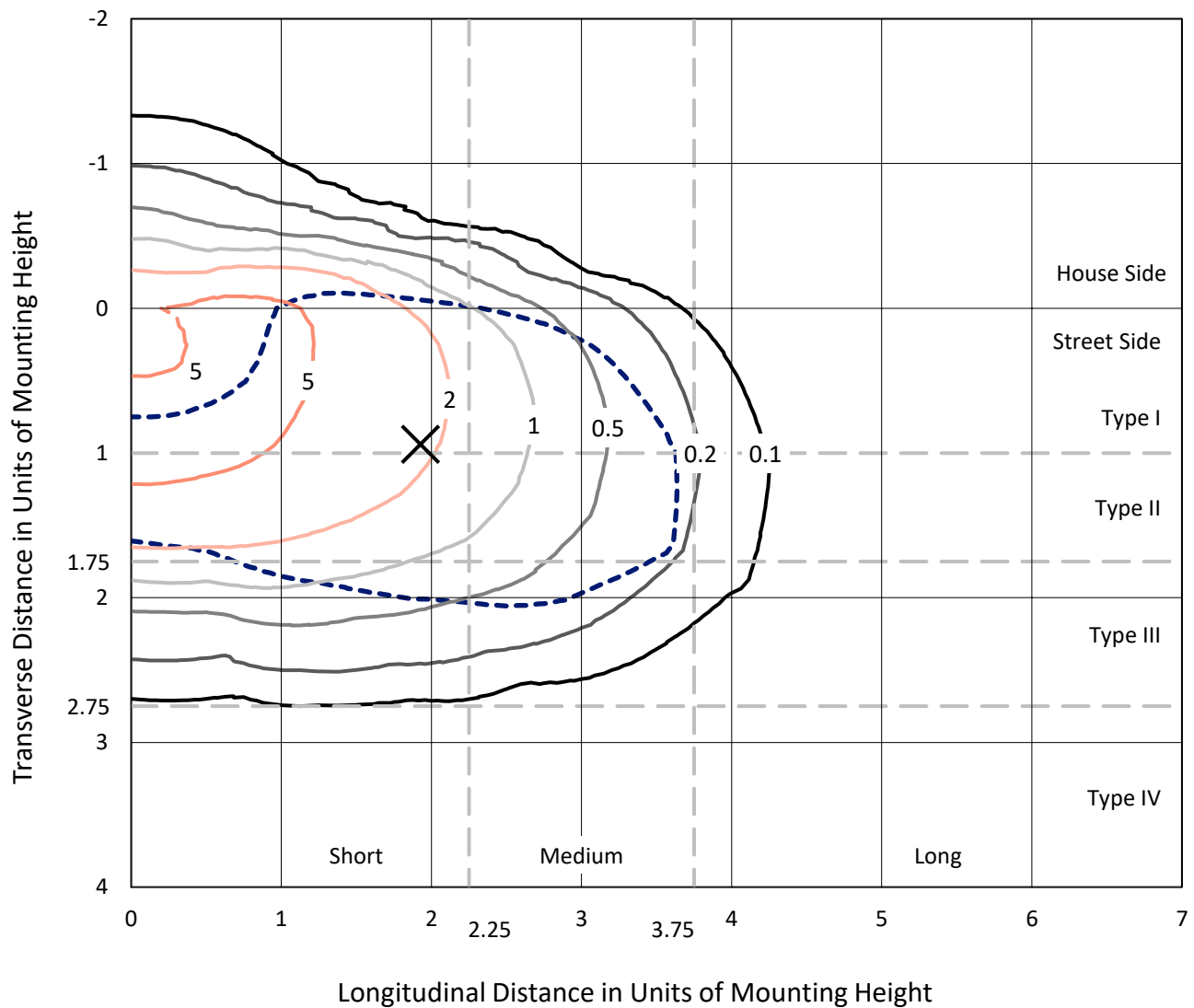


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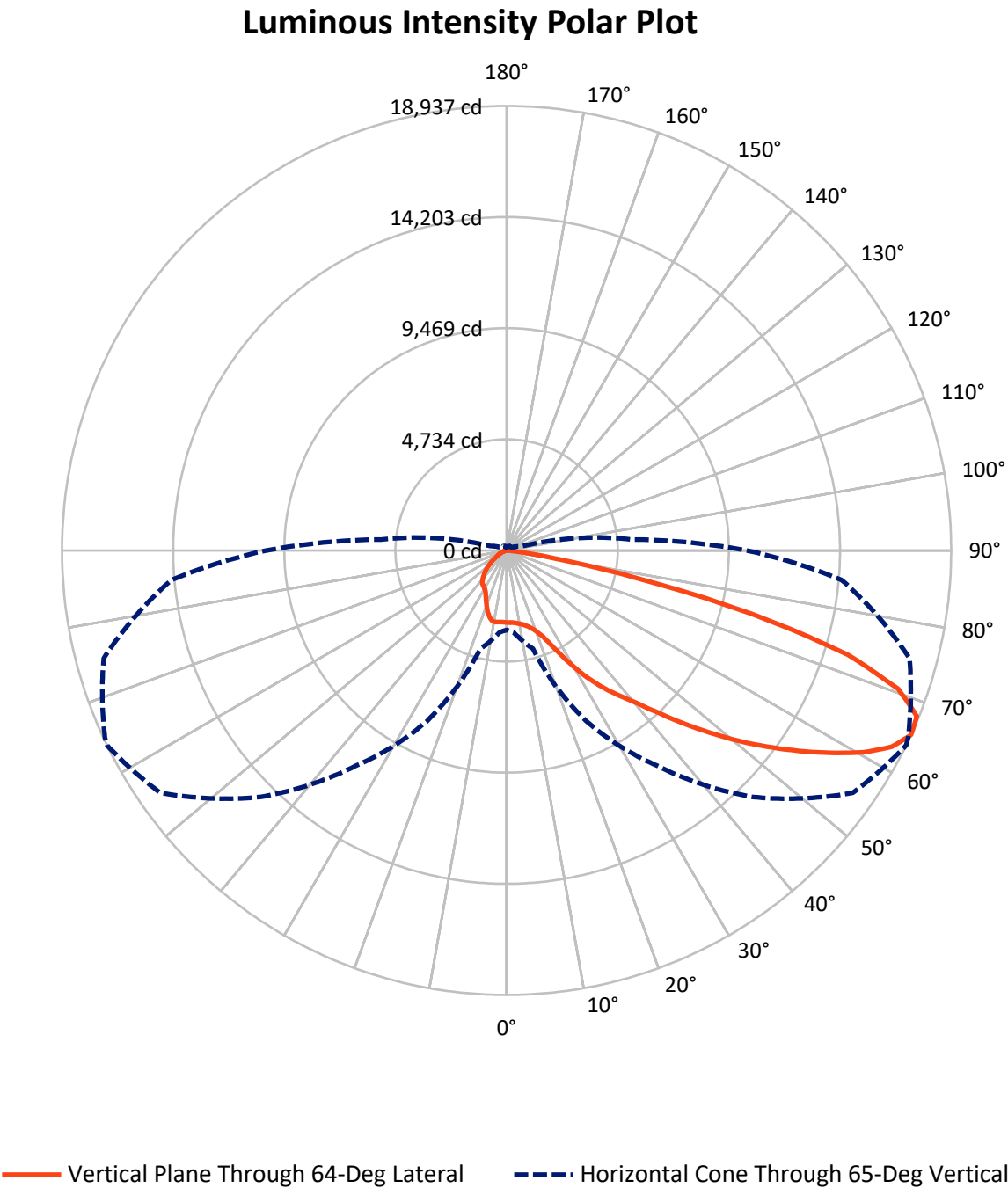
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
Type III - Short - N/A

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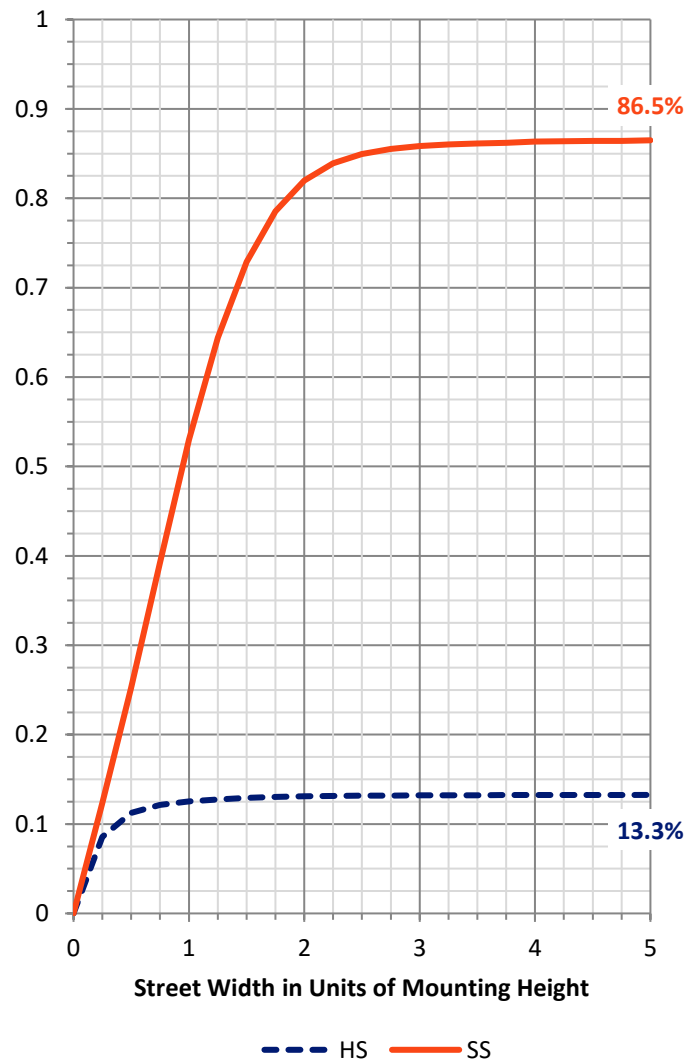
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3528.6	0.0	3528.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	22857.4	0.0	22857.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	26386.0	0.0	26386.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.1	1.1
10°-20°	768.0	2.9
20°-30°	1455.2	5.5
30°-40°	2944.7	11.2
40°-50°	5016.3	19.0
50°-60°	6821.8	25.9
60°-70°	6406.0	24.3
70°-80°	2566.5	9.7
80°-90°	124.3	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°	26386.0	100.0
0°-180°	26386.0	100.0

Coefficient of Utilization



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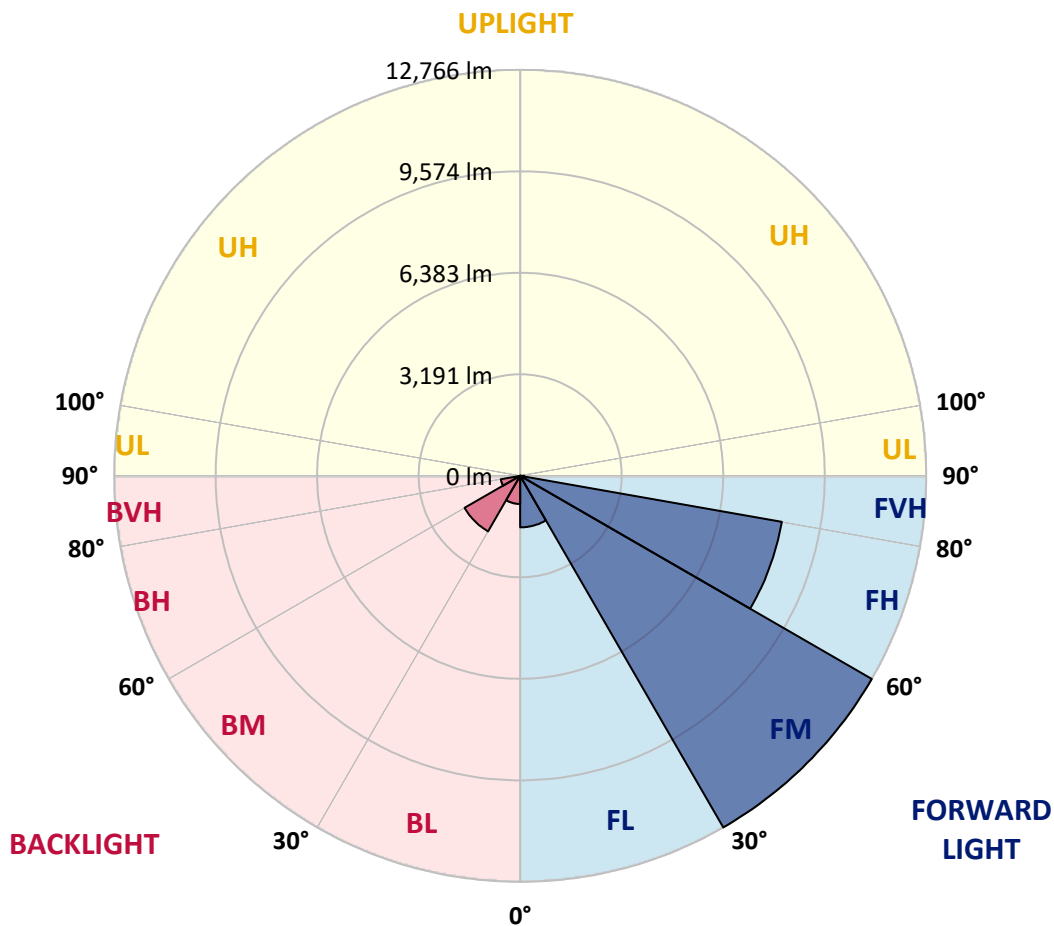
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1620.4	6.1			
FM	(30°-60°)	12765.5	48.4			
FH	(60°-80°)	8353.2	31.7			G4/12000
FVH	(80°-90°)	118.3	0.4			G2/225
BL	(0°-30°)	885.9	3.4	B2/1000		
BM	(30°-60°)	2017.3	7.6	B2/2500		
BH	(60°-80°)	619.3	2.3	B2/1000		G2/1000
BVH	(80°-90°)	6.1	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°	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0
2.5°	3058.4	3079.6	3074.3	3069.0	3067.2	3070.7	3072.5	3070.7	3070.7	3070.7	3072.5
5°	3000.0	3017.7	3017.7	3030.1	3047.7	3069.0	3084.9	3088.4	3092.0	3097.3	3095.5
7.5°	2888.5	2902.7	2913.3	2954.0	2998.2	3054.8	3102.6	3127.3	3130.9	3150.3	3157.4
10°	2812.5	2830.2	2847.9	2890.3	2954.0	3038.9	3120.3	3180.4	3189.2	3235.2	3256.5
12.5°	2808.9	2826.6	2849.6	2895.6	2969.9	3060.1	3159.2	3245.9	3261.8	3329.0	3373.2
15°	2846.1	2867.3	2888.5	2945.1	3024.7	3134.4	3240.5	3348.4	3364.4	3459.9	3507.6
17.5°	2922.2	2950.5	2966.4	3023.0	3107.9	3229.9	3369.7	3493.5	3507.6	3619.1	3679.2
20°	3072.5	3106.1	3111.4	3157.4	3240.5	3371.4	3537.7	3691.6	3709.3	3836.6	3903.9
22.5°	3383.8	3431.6	3389.1	3412.1	3486.4	3617.3	3797.7	3992.3	4017.1	4162.1	4222.3
25°	3932.2	3999.4	3889.7	3850.8	3882.6	4018.8	4245.3	4491.1	4519.4	4636.2	4666.2
27.5°	5009.4	4922.7	4756.5	4593.7	4498.2	4576.0	4830.7	5135.0	5170.4	5283.6	5248.2
30°	6192.8	6116.7	5892.1	5531.2	5304.8	5292.4	5527.7	5867.3	5908.0	6015.9	5908.0
32.5°	7377.9	7305.4	7061.3	6617.3	6224.6	6030.0	6192.8	6569.5	6590.8	6659.7	6500.5
35°	8543.6	8469.3	8225.2	7770.6	7287.7	6845.5	6813.6	7238.2	7245.2	7317.8	7080.7
37.5°	9716.3	9654.4	9394.4	8948.6	8472.8	7862.6	7567.2	7871.4	7880.3	7951.0	7705.1
40°	10553.0	10579.5	10400.9	10055.9	9647.3	8980.5	8412.7	8545.3	8492.3	8610.8	8464.0
42.5°	11271.2	11324.2	11168.6	10995.2	10758.2	10170.9	9459.8	9436.8	9351.9	9415.6	9263.5
45°	11892.0	11936.2	11796.5	11755.8	11750.5	11338.4	10604.3	10466.3	10347.8	10335.4	10153.2
47.5°	12120.2	12205.1	12265.3	12401.5	12666.8	12493.4	11787.7	11573.6	11441.0	11343.7	11055.4
50°	12206.9	12297.1	12502.3	12898.5	13526.4	13600.7	12965.7	12725.2	12562.4	12385.5	11961.0
52.5°	12090.1	12251.1	12527.0	13193.9	14104.9	14488.7	14096.0	13885.5	13699.8	13411.5	12781.8
55°	11402.0	11563.0	12127.3	13190.4	14393.2	15111.3	15164.4	15070.7	14861.9	14407.3	13445.1
57.5°	9951.6	10190.4	11083.7	12741.1	14387.9	15647.3	16211.6	16278.8	16045.3	15394.4	13966.9
60°	7942.2	8265.9	9355.5	11745.2	13943.9	15937.4	17129.6	17465.7	17218.0	16367.2	14389.6
62.5°	5541.8	5916.8	6948.1	10185.1	12928.6	15728.7	17800.0	18420.9	18233.4	17237.5	14552.4
65°	3380.3	3500.6	4331.9	8014.7	11202.2	14854.9	18007.0	18937.4	18875.5	17769.9	14311.8
67.5°	2251.8	2352.6	2591.4	5495.8	8695.7	13109.0	17511.7	18847.2	18864.9	17683.3	13430.9
70°	1356.7	1443.4	1599.0	3196.3	5635.6	10376.1	15978.1	17697.4	17800.0	16524.7	11761.1
72.5°	559.0	617.3	758.8	1448.7	2918.6	6585.5	12723.4	15194.5	15433.3	13894.4	9026.5
75°	316.6	346.7	445.8	727.0	1266.5	3069.0	7706.9	10786.5	11138.5	9576.6	5430.4
77.5°	210.5	224.6	288.3	470.5	712.8	1047.2	3293.6	5619.7	6291.8	5230.5	2350.8
80°	141.5	153.9	198.1	314.9	463.4	449.3	1048.9	2081.9	2561.3	1797.2	573.1
82.5°	95.5	97.3	141.5	207.0	293.6	217.6	309.5	647.4	813.7	520.0	217.6
85°	54.8	53.1	104.4	120.3	130.9	90.2	93.7	194.6	254.7	219.3	123.8
87.5°	7.1	10.6	40.7	31.8	17.7	19.5	19.5	33.6	49.5	53.1	26.5
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°	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0	3069.0
2.5°	3072.5	3070.7	3065.4	3060.1	3047.7	3040.7	3044.2	3040.7	3038.9	3040.7	3047.7
5°	3095.5	3090.2	3076.0	3058.4	3033.6	3003.5	2984.1	2955.8	2929.2	2913.3	2916.8
7.5°	3157.4	3152.1	3132.6	3083.1	3003.5	2877.9	2763.0	2662.1	2586.1	2541.8	2543.6
10°	3256.5	3247.6	3217.5	3107.9	2899.2	2625.0	2396.8	2207.5	2083.7	2025.3	2020.0
12.5°	3373.2	3362.6	3309.5	3084.9	2701.0	2273.0	1958.1	1747.6	1632.7	1581.4	1576.1
15°	3511.2	3497.0	3392.7	2975.2	2412.7	1883.8	1595.5	1438.1	1363.8	1317.8	1319.6
17.5°	3682.8	3658.0	3454.6	2810.7	2099.6	1586.7	1372.6	1254.1	1188.7	1144.5	1140.9
20°	3905.6	3865.0	3504.1	2614.4	1811.3	1399.2	1222.3	1123.2	1073.7	1034.8	1027.7
22.5°	4217.0	4158.6	3564.2	2402.1	1607.9	1270.0	1110.8	1038.3	997.6	953.4	946.3
25°	4602.6	4533.6	3638.5	2205.8	1468.2	1158.6	1029.5	969.3	921.6	870.3	865.0
27.5°	5142.1	5018.2	3727.0	2044.8	1347.9	1063.1	955.2	888.0	833.1	790.7	781.8
30°	5743.5	5540.1	3804.8	1947.5	1238.2	974.6	857.9	790.7	739.4	709.3	704.0
32.5°	6313.0	6037.1	3856.1	1905.1	1139.1	873.8	751.8	679.2	640.3	631.5	636.8
35°	6850.8	6486.4	3850.8	1864.4	1050.7	773.0	647.4	573.1	543.0	548.3	548.3
37.5°	7469.9	6965.8	3813.7	1800.7	978.2	681.0	557.2	491.7	465.2	467.0	474.1
40°	8189.8	7519.4	3790.7	1680.4	898.6	596.1	482.9	429.8	410.4	403.3	401.5
42.5°	8957.5	8055.4	3794.2	1544.2	799.5	520.0	431.6	387.4	369.7	364.4	362.6
45°	9728.7	8566.6	3799.5	1402.7	695.2	461.7	394.5	357.3	346.7	339.6	339.6
47.5°	10453.9	9001.7	3700.4	1250.6	592.6	417.5	364.4	339.6	330.8	321.9	321.9
50°	11129.6	9291.8	3461.7	1073.7	511.2	382.1	341.4	323.7	314.9	306.0	306.0
52.5°	11655.0	9337.8	3067.2	891.5	454.6	355.5	327.2	311.3	300.7	291.9	290.1
55°	11888.5	9049.5	2506.5	721.7	410.4	332.5	313.1	297.2	284.8	275.9	274.2
57.5°	11828.3	8442.8	1954.6	580.2	367.9	309.5	295.4	284.8	270.6	256.5	254.7
60°	11532.9	7630.8	1473.5	482.9	329.0	284.8	275.9	267.1	247.6	226.4	222.9
62.5°	11021.7	6610.2	1050.7	399.8	286.6	256.5	252.9	245.9	217.6	178.7	175.1
65°	10239.9	5370.2	707.5	332.5	245.9	224.6	226.4	214.0	176.9	132.7	129.1
67.5°	9097.2	3926.9	452.8	272.4	205.2	187.5	189.3	182.2	150.4	113.2	107.9
70°	7641.5	2600.2	295.4	207.0	164.5	145.0	155.7	157.4	127.4	92.0	88.4
72.5°	5602.0	1535.4	207.0	153.9	120.3	100.8	127.4	130.9	102.6	69.0	65.4
75°	3192.8	728.8	155.7	111.4	74.3	70.8	99.1	99.1	70.8	46.0	42.5
77.5°	1340.8	304.2	109.7	72.5	42.5	40.7	67.2	61.9	35.4	21.2	21.2
80°	387.4	136.2	58.4	35.4	17.7	15.9	26.5	19.5	8.8	3.5	3.5
82.5°	152.1	60.1	23.0	14.2	7.1	7.1	3.5	0.0	0.0	0.0	0.0
85°	90.2	24.8	10.6	5.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.0	5.3	3.5	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)