

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: P956649

Luminaire Tested: **GALN-SB9B-727-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956649
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39606 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 329.5
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

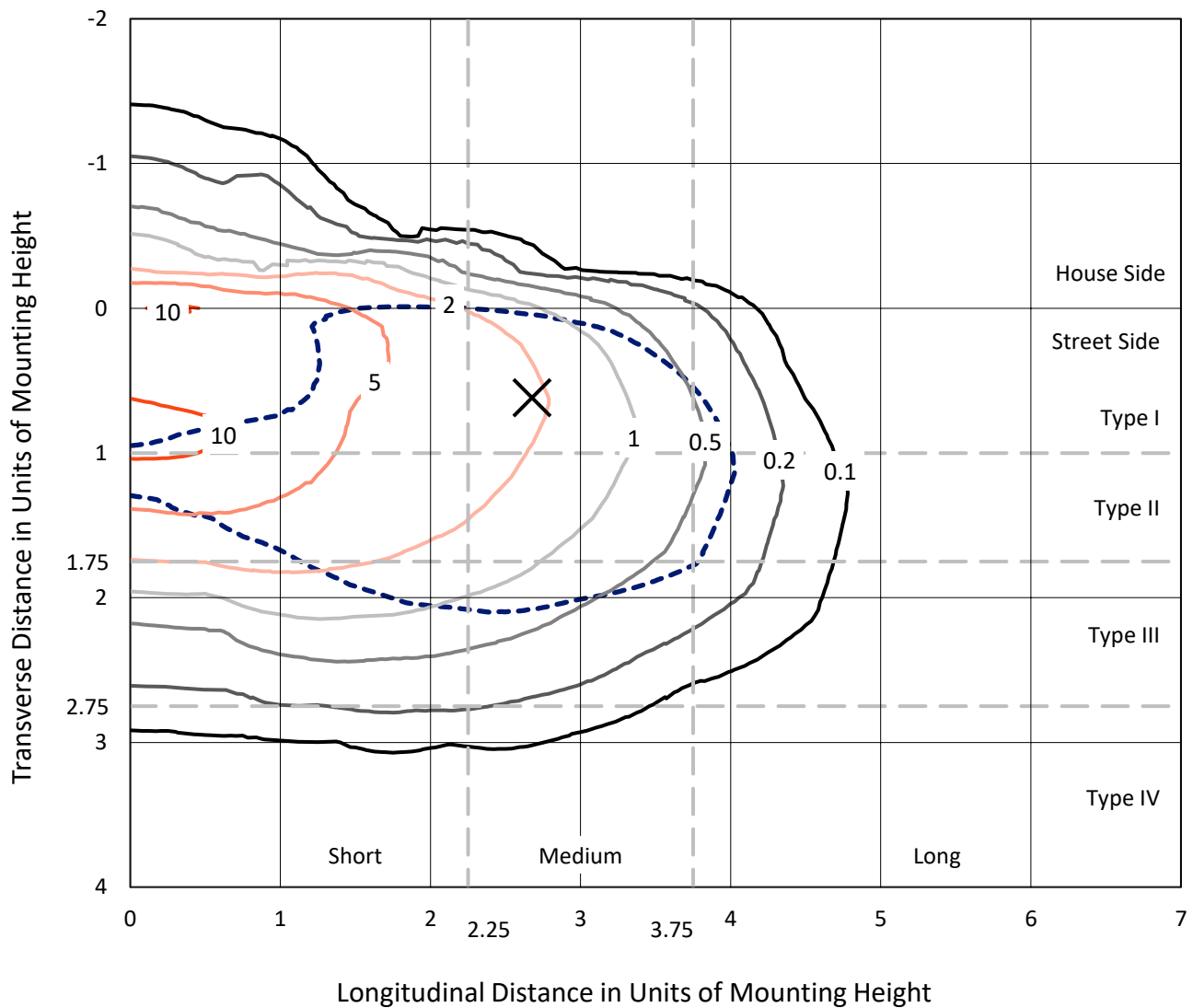


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Iso-Footcandle Lines of Horizontal Illumination

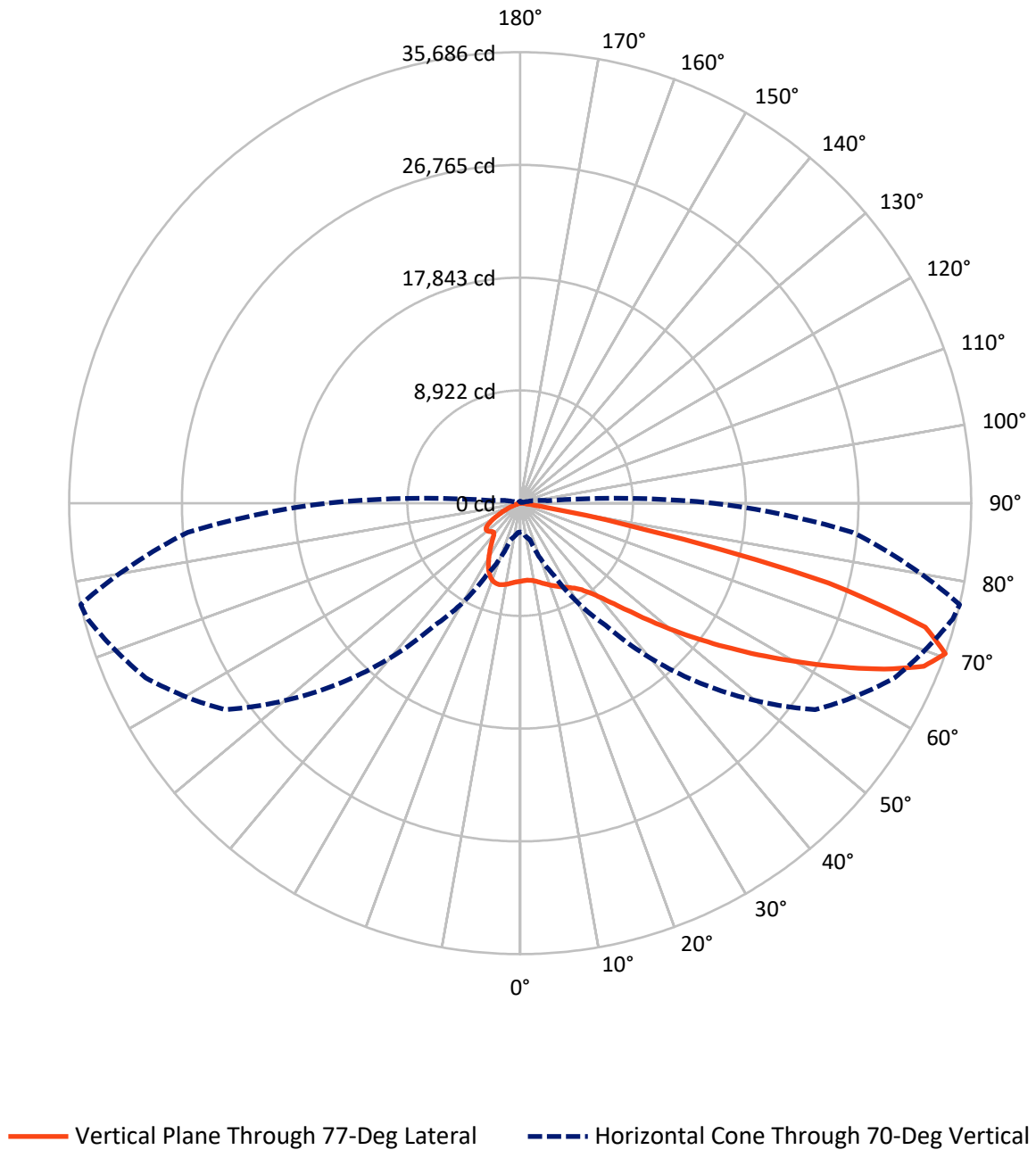
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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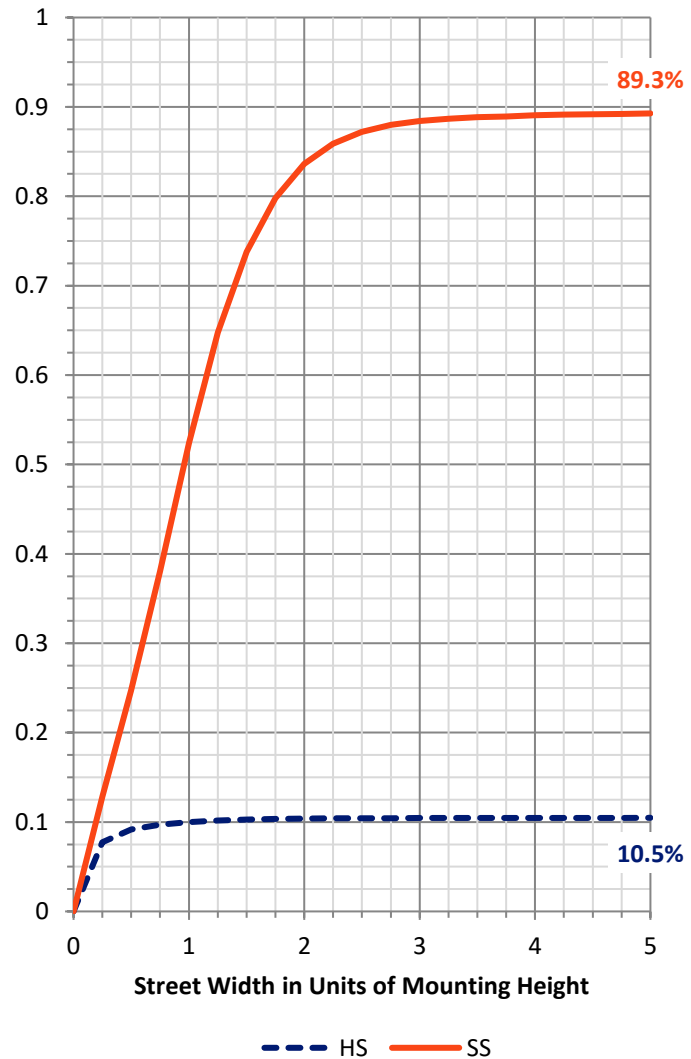
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4175.0	0.0	4175.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	35431.0	0.0	35431.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	39606.0	0.0	39606.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.4	1.3
10°-20°	1263.9	3.2
20°-30°	1954.9	4.9
30°-40°	3547.4	9.0
40°-50°	6696.1	16.9
50°-60°	9675.2	24.4
60°-70°	10299.0	26.0
70°-80°	5457.8	13.8
80°-90°	179.2	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°	39606.0	100.0
0°-180°	39606.0	100.0

Coefficient of Utilization



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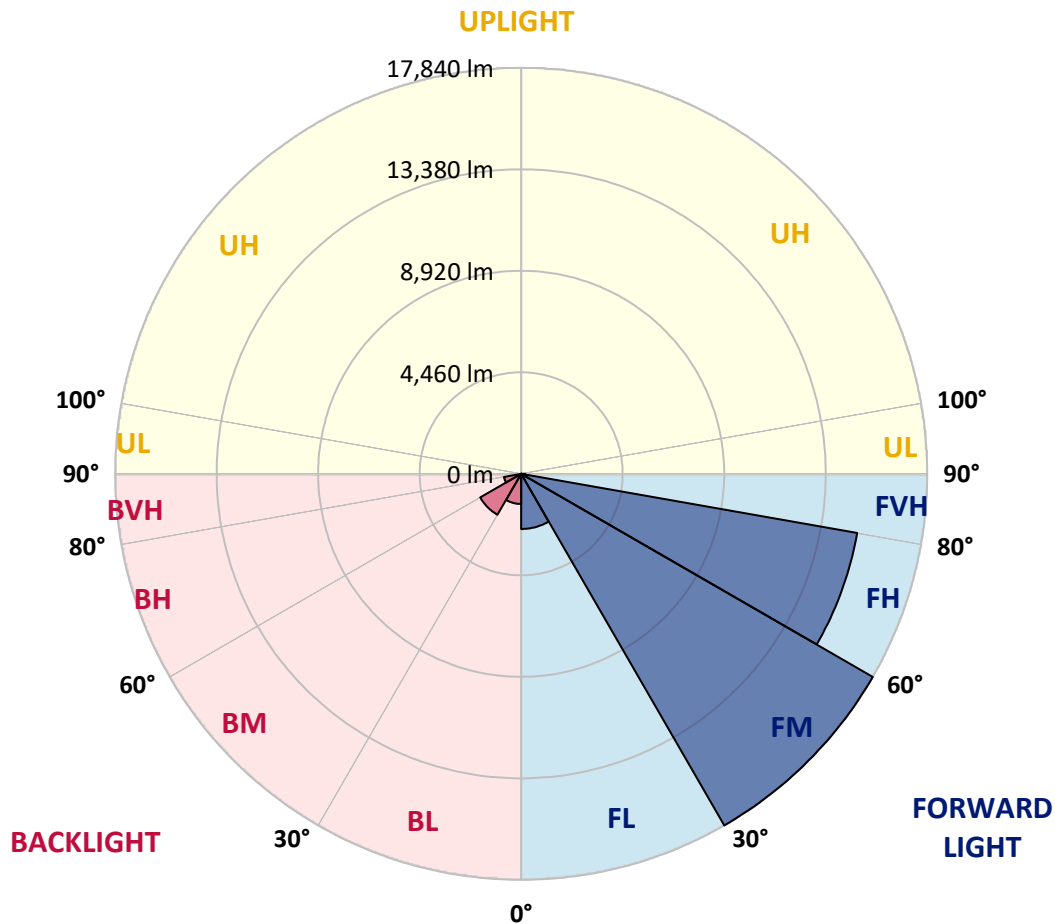
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2424.8	6.1			
FM	(30°-60°)	17840.3	45.0			
FH	(60°-80°)	14991.4	37.9			G5
FVH	(80°-90°)	174.4	0.4			G2/225
BL	(0°-30°)	1326.5	3.3	B3/2500		
BM	(30°-60°)	2078.4	5.2	B2/2500		
BH	(60°-80°)	765.4	1.9	B2/1000		G2/1000
BVH	(80°-90°)	4.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	6177.8	6177.8	6177.8	6177.8	6177.8	6177.8	6177.8	6177.8	6177.8	6177.8	6177.8
2.5°	5800.1	5852.7	5845.2	5880.2	5892.7	5942.7	5992.7	6060.3	6135.3	6132.8	6182.8
5°	5472.5	5525.0	5537.5	5585.1	5645.1	5722.6	5825.2	5960.2	6100.3	6122.8	6222.8
7.5°	5084.8	5139.8	5172.4	5267.4	5377.5	5537.5	5705.1	5902.7	6135.3	6167.8	6360.4
10°	4697.1	4747.2	4789.7	4924.7	5099.8	5337.4	5610.1	5895.2	6207.8	6255.4	6528.0
12.5°	4457.0	4504.6	4552.1	4669.6	4887.2	5177.4	5547.5	5930.2	6327.9	6395.4	6755.6
15°	4372.0	4414.5	4452.0	4557.1	4759.7	5089.8	5535.0	6002.7	6480.5	6570.5	7030.7
17.5°	4384.5	4407.0	4432.0	4512.1	4709.7	5049.8	5557.5	6127.8	6660.5	6740.6	7305.8
20°	4457.0	4469.5	4472.0	4527.1	4702.1	5044.8	5602.6	6247.9	6830.6	6938.2	7578.5
22.5°	4549.6	4554.6	4549.6	4587.1	4749.7	5082.3	5662.6	6392.9	7020.7	7120.8	7853.6
25°	4982.3	4887.2	4767.2	4694.6	4829.7	5154.9	5752.6	6588.0	7228.3	7325.8	8121.2
27.5°	6325.4	6052.8	5622.6	5139.8	4994.8	5259.9	5877.7	6785.6	7438.4	7525.9	8408.8
30°	8506.4	8148.7	7418.4	6330.4	5525.0	5480.0	6040.3	6983.2	7661.0	7756.0	8716.5
32.5°	10692.4	10604.8	9762.0	8256.3	6718.1	5970.2	6310.4	7250.8	7956.1	8031.2	9131.7
35°	12903.4	12725.8	12035.5	10547.3	8556.4	6968.2	6760.6	7601.0	8343.8	8428.8	9736.9
37.5°	14596.7	14489.1	14061.4	12835.9	10737.4	8508.9	7530.9	8143.7	8906.6	9001.6	10512.3
40°	16092.3	16042.3	15897.3	15089.4	13176.0	10524.8	8729.0	8984.1	9686.9	9799.5	11462.7
42.5°	17267.9	17385.4	17468.0	17242.9	15689.7	12825.9	10339.7	10164.6	10774.9	10890.0	12673.3
45°	18470.9	18511.0	18843.6	19168.8	18185.8	15232.0	12155.6	11547.8	12128.0	12270.6	14123.9
47.5°	19243.8	19403.9	19989.1	20561.9	20284.3	17618.0	14106.4	13181.0	13696.3	13963.9	15749.7
50°	19301.3	19604.0	20409.3	21407.3	21812.5	19889.1	16227.4	15041.9	15589.6	15884.8	17485.5
52.5°	18343.4	18813.6	20061.7	21522.3	22637.8	21812.5	18420.9	16902.7	17605.5	17990.7	19286.3
55°	14063.9	14679.2	18753.6	20897.0	22670.4	23270.6	20556.9	18841.1	19851.6	20286.8	21232.2
57.5°	12253.1	12563.2	14744.2	19811.5	22067.6	23858.4	22487.8	20686.9	22295.2	22835.4	23070.5
60°	10194.7	10602.3	12365.6	18035.7	21249.7	23915.9	24193.5	23068.0	24943.9	25551.7	24756.3
62.5°	6928.2	7370.9	9124.2	14984.3	20131.7	23888.4	25591.7	25519.2	27887.7	28540.5	26184.5
65°	4292.0	4569.6	5725.1	12235.6	18568.5	23918.4	27054.9	28495.5	30994.2	31657.0	27290.0
67.5°	3391.5	3519.1	4121.9	9394.3	15874.7	23243.1	28515.5	31294.3	33918.0	34443.2	27627.6
70°	2278.5	2356.1	2998.9	6297.9	11810.4	20126.7	28488.0	32699.9	35423.7	35686.3	26397.1
72.5°	1200.5	1260.6	1753.3	2916.3	7133.3	14306.5	24013.5	31019.2	33925.5	33530.3	22562.8
75°	600.3	700.3	1180.5	1480.7	3046.4	7978.6	14911.8	24456.2	26702.2	25171.5	14476.6
77.5°	455.2	550.3	975.4	975.4	1060.5	2686.2	6315.4	13338.6	12303.1	10244.7	4249.4
80°	290.1	375.2	852.9	737.8	442.7	682.8	1645.8	3736.7	2613.7	1988.4	772.9
82.5°	170.1	245.1	710.3	487.7	247.6	252.6	465.2	795.4	677.8	527.7	237.6
85°	67.5	160.1	487.7	192.6	97.5	62.5	140.1	170.1	140.1	105.0	60.0
87.5°	0.0	37.5	85.0	0.0	7.5	5.0	10.0	12.5	12.5	10.0	20.0
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°	6177.8	6177.8	6177.8	6177.8	6177.8	6177.8	6177.8	6177.8	6177.8	6177.8	6177.8
2.5°	6205.3	6210.3	6225.3	6227.8	6192.8	6147.8	6130.3	6122.8	6092.8	6090.3	6095.3
5°	6280.4	6302.9	6280.4	6215.3	6060.3	5842.7	5677.6	5542.5	5420.0	5382.5	5359.9
7.5°	6430.4	6452.9	6385.4	6130.3	5740.1	5307.4	4917.2	4642.1	4394.5	4302.0	4264.4
10°	6645.5	6675.5	6463.0	5947.7	5257.4	4562.1	3901.8	3436.6	3073.9	2926.3	2863.8
12.5°	6915.7	6928.2	6505.5	5670.1	4629.6	3636.7	2701.2	2203.5	1880.9	1760.8	1723.3
15°	7213.3	7195.8	6510.5	5292.4	3774.2	2571.2	1763.3	1448.2	1318.1	1278.1	1278.1
17.5°	7525.9	7453.4	6410.4	4747.2	2836.3	1758.3	1308.1	1233.1	1210.6	1200.5	1198.0
20°	7833.6	7671.0	6227.8	4034.3	2035.9	1313.1	1188.0	1165.5	1153.0	1148.0	1143.0
22.5°	8113.7	7836.1	5915.2	3206.5	1478.2	1160.5	1123.0	1103.0	1080.5	1070.5	1068.0
25°	8386.3	7931.1	5475.0	2433.6	1183.0	1085.5	1055.5	1018.0	988.0	975.4	970.4
27.5°	8651.5	7991.1	4924.7	1800.8	1055.5	1015.5	960.4	907.9	885.4	880.4	875.4
30°	8934.1	8011.2	4299.5	1343.1	977.9	927.9	847.9	787.9	775.4	777.9	777.9
32.5°	9279.2	8041.2	3669.2	1100.5	912.9	822.9	727.8	665.3	655.3	665.3	662.8
35°	9691.9	8101.2	3061.4	1013.0	855.4	715.3	612.8	560.3	550.3	557.8	555.3
37.5°	10252.2	8198.7	2493.6	995.5	807.9	625.3	515.2	472.7	472.7	475.2	472.7
40°	10997.5	8458.9	1985.9	982.9	782.9	557.8	435.2	417.7	425.2	430.2	430.2
42.5°	11905.4	9011.6	1643.3	967.9	755.3	527.7	395.2	387.7	400.2	405.2	405.2
45°	12923.4	9711.9	1523.2	942.9	730.3	547.8	377.7	367.7	382.7	385.2	387.7
47.5°	13976.4	10397.2	1508.2	915.4	705.3	577.8	372.7	350.2	367.7	370.2	372.7
50°	15041.9	10845.0	1523.2	872.9	665.3	577.8	375.2	332.7	347.7	355.2	357.7
52.5°	16114.9	11050.0	1513.2	780.4	595.3	542.7	375.2	317.6	332.7	337.7	337.7
55°	17155.3	11010.0	1360.6	642.8	505.2	480.2	365.2	305.1	315.1	317.6	317.6
57.5°	17978.2	10452.3	1078.0	500.2	410.2	400.2	332.7	290.1	297.6	295.1	295.1
60°	18408.4	9226.7	770.4	385.2	322.6	315.1	292.6	270.1	275.1	262.6	260.1
62.5°	18413.4	7606.0	515.2	305.1	257.6	250.1	250.1	242.6	237.6	212.6	205.1
65°	18020.7	5807.7	342.7	242.6	207.6	195.1	210.1	207.6	190.1	155.1	150.1
67.5°	17130.3	3806.7	260.1	190.1	160.1	152.6	167.6	175.1	162.6	130.1	127.6
70°	15299.5	2216.0	215.1	147.6	120.1	112.6	135.1	150.1	135.1	105.0	100.0
72.5°	12708.3	1195.5	175.1	110.1	82.5	75.0	107.5	122.6	107.5	77.5	75.0
75°	8246.3	640.3	135.1	72.5	42.5	47.5	80.0	90.0	75.0	50.0	45.0
77.5°	2768.8	282.6	85.0	35.0	20.0	20.0	47.5	55.0	35.0	17.5	15.0
80°	617.8	117.6	35.0	15.0	7.5	7.5	10.0	10.0	5.0	0.0	0.0
82.5°	202.6	47.5	15.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	77.5	17.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	30.0	2.5	0.0	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)