

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: P943317

Luminaire Tested: **GALN-SB7D-727-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-727-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 67170 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 512.8
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

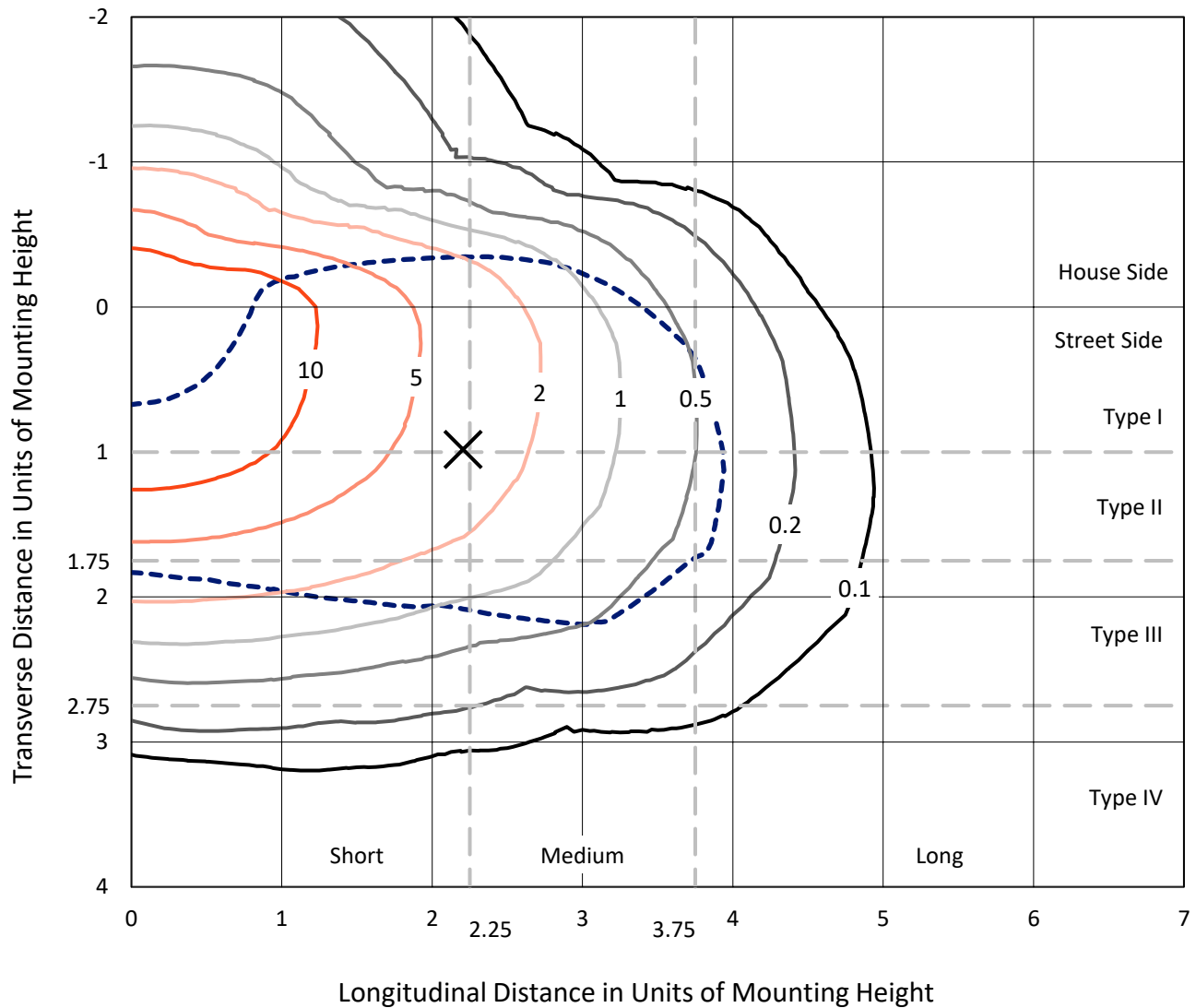


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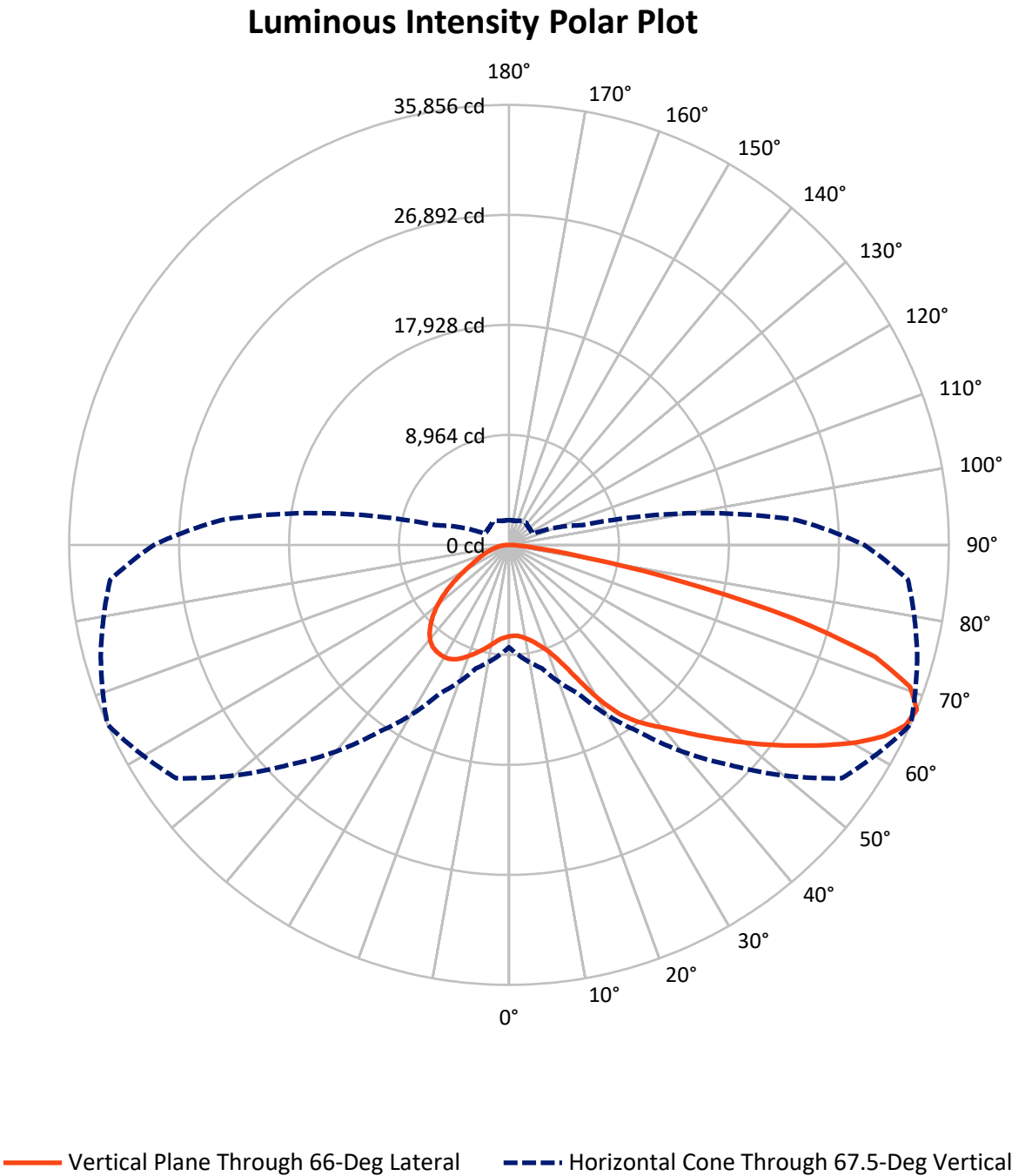
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc
Type III - Short - N/A

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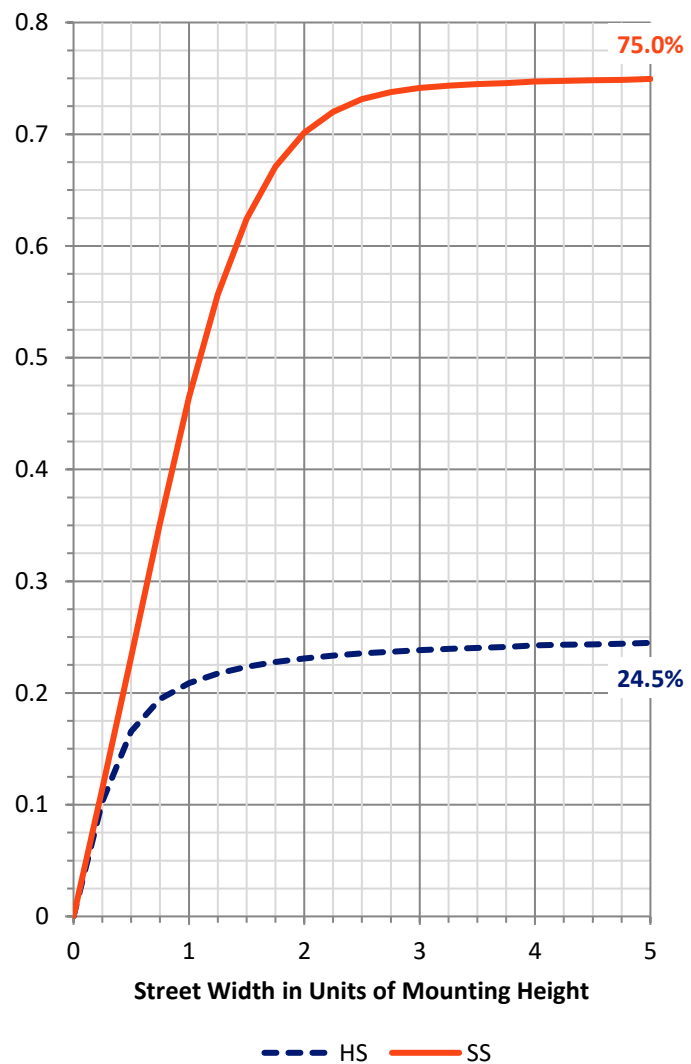
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16701.6	0.0	16701.6
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	50468.4	0.0	50468.4
	% Fixture	75.1	0.0	75.1
Total	Lumens	67170.0	0.0	67170.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	738.6	1.1
10°-20°	2440.4	3.6
20°-30°	4703.7	7.0
30°-40°	8247.3	12.3
40°-50°	12261.0	18.3
50°-60°	15542.1	23.1
60°-70°	15207.5	22.6
70°-80°	7254.1	10.8
80°-90°	775.3	1.2
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°	67170.0	100.0
0°-180°	67170.0	100.0

Coefficient of Utilization



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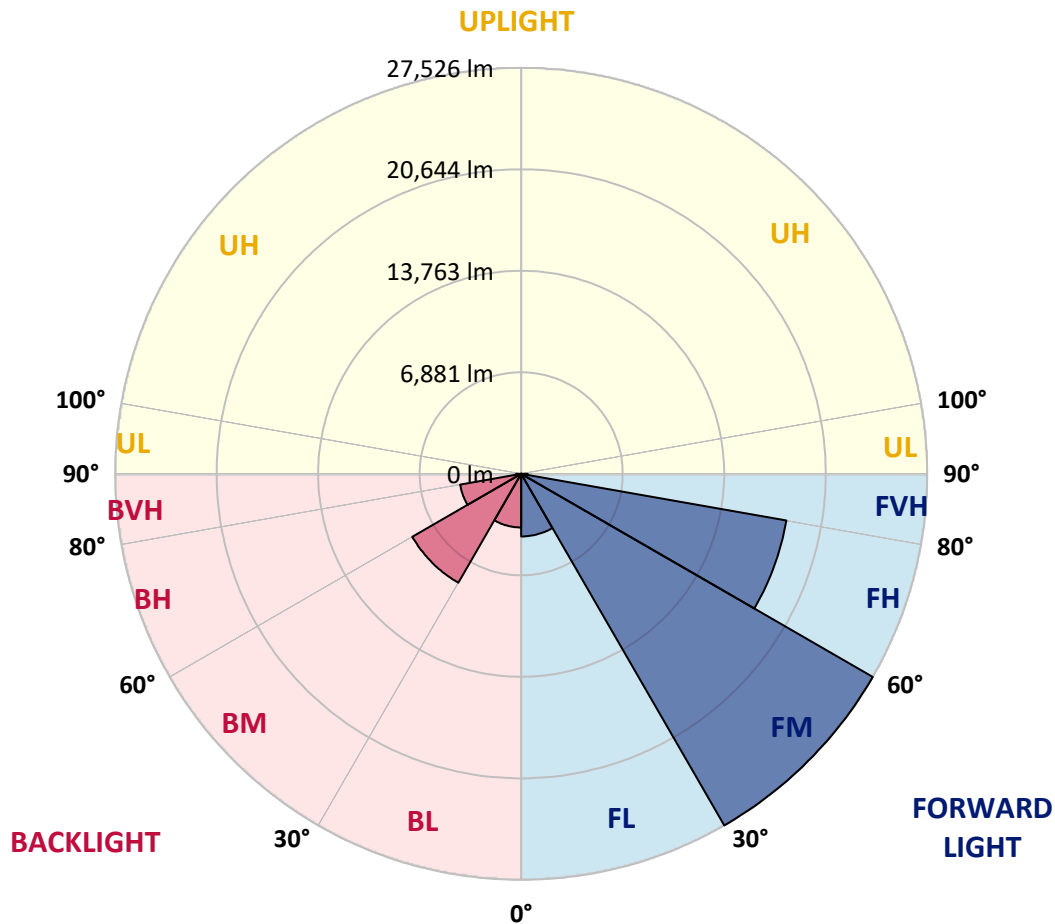
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4244.5	6.3			
FM	(30°-60°)	27525.7	41.0			
FH	(60°-80°)	18258.7	27.2			G5
FVH	(80°-90°)	439.6	0.7			G3/500
BL	(0°-30°)	3638.2	5.4	B4/5000		
BM	(30°-60°)	8524.7	12.7	B5		
BH	(60°-80°)	4203.0	6.3	B4/5000		G4/5000
BVH	(80°-90°)	335.7	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7450.0	7450.0	7450.0	7450.0	7450.0	7450.0	7450.0	7450.0	7450.0	7450.0	7450.0
2.5°	7372.4	7414.7	7404.2	7386.5	7383.0	7390.0	7400.6	7411.2	7407.7	7425.3	7453.6
5°	7351.2	7393.6	7390.0	7390.0	7404.2	7432.4	7450.0	7467.7	7450.0	7471.2	7510.0
7.5°	7365.3	7397.1	7411.2	7425.3	7460.6	7513.6	7555.9	7594.7	7573.6	7598.3	7647.7
10°	7545.3	7570.0	7584.1	7584.1	7608.9	7668.8	7711.2	7781.8	7764.1	7803.0	7866.5
12.5°	7873.5	7898.2	7898.2	7884.1	7901.8	7940.6	7954.7	8032.4	8000.6	8064.1	8127.6
15°	8275.9	8325.3	8286.4	8261.7	8268.8	8307.6	8304.1	8364.1	8332.3	8385.3	8441.7
17.5°	8720.5	8784.1	8720.5	8717.0	8702.9	8745.2	8748.8	8801.7	8745.2	8784.1	8822.9
20°	9246.4	9334.6	9281.7	9299.3	9267.6	9285.2	9302.8	9380.5	9292.3	9320.5	9309.9
22.5°	9987.5	10093.4	10036.9	10104.0	10082.8	10068.7	10065.1	10202.8	10065.1	10075.7	9973.4
25°	11067.4	11194.5	11095.7	11187.4	11187.4	11233.3	11286.2	11462.7	11233.3	11166.2	10901.6
27.5°	12662.6	12789.6	12595.5	12652.0	12634.4	12747.3	12690.8	13128.4	12881.4	12772.0	12239.1
30°	14582.5	14808.3	14441.3	14427.2	14409.5	14589.5	14670.7	14960.1	14709.5	14600.1	13957.8
32.5°	16657.6	16894.1	16456.4	16329.4	16262.3	16371.7	16304.7	16537.6	16364.7	16195.3	15401.2
35°	18852.7	19085.7	18669.2	18422.2	18154.0	17924.6	17684.6	17744.6	17582.2	17324.6	16502.3
37.5°	20927.9	21354.9	20913.8	20649.1	20155.0	19706.8	19036.2	18757.4	18605.7	18369.2	17539.9
40°	23041.8	23285.3	22950.1	22724.2	22187.8	21485.5	20412.6	19823.2	19618.6	19389.2	18686.9
42.5°	24598.2	24831.1	24651.1	24495.8	24075.9	23260.6	21873.7	21136.1	20839.6	20582.0	19985.6
45°	25833.4	26006.3	25893.4	25949.9	25769.9	24979.3	23387.7	22544.2	22237.2	21923.1	21453.7
47.5°	26331.0	26514.5	26694.5	27029.8	27336.8	26754.5	25014.6	24068.8	23744.1	23423.0	22960.7
50°	26274.5	26461.6	26983.9	27696.8	28649.7	28455.6	26729.8	25692.2	25392.3	25025.2	24598.2
52.5°	25822.8	26034.6	26705.1	27890.9	29408.4	29729.6	28476.7	27368.6	27086.2	26648.6	26221.6
55°	24637.0	24764.1	25769.9	27449.7	29588.4	30618.9	30188.4	29154.3	28872.0	28261.5	27795.6
57.5°	22438.4	22621.9	24086.5	26260.4	29136.7	31222.4	31691.8	31031.8	30760.1	29881.3	29394.3
60°	19569.1	19862.1	21538.4	24262.9	27986.2	31218.9	33057.6	32877.6	32651.7	31476.5	30968.3
62.5°	16322.3	16661.1	18274.0	21439.6	25974.6	30333.1	33911.6	34423.4	34306.9	32948.2	32298.8
65°	12535.5	12768.5	14374.2	17786.9	22844.2	28430.9	34010.4	35478.6	35499.7	34066.9	32994.0
67.5°	8346.4	9017.0	10411.0	13347.3	18651.6	25321.7	33142.3	35651.5	35856.2	34451.6	32644.7
70°	4072.6	4954.9	6320.7	8674.7	13347.3	20553.8	30873.0	34232.8	34688.0	33329.3	30562.5
72.5°	1690.5	1976.3	2721.0	4280.9	7661.8	13869.6	26313.4	30386.0	31229.5	29531.9	25695.8
75°	1139.9	1235.2	1556.4	2195.1	3490.3	6839.5	18976.3	22657.2	24015.9	22304.2	18231.6
77.5°	878.8	938.8	1132.9	1535.2	2075.1	2586.9	10156.9	13654.3	14356.6	13290.8	9486.4
80°	691.7	737.6	847.0	1118.7	1471.7	1383.4	3462.1	6186.6	6592.5	5530.2	3049.2
82.5°	600.0	617.6	607.0	758.8	977.6	808.2	1136.4	2283.4	2519.8	1828.1	995.2
85°	434.1	483.5	504.7	469.4	518.8	409.4	465.8	808.2	889.3	794.1	561.1
87.5°	176.5	261.2	321.2	303.5	190.6	116.5	144.7	236.5	271.7	296.4	183.5
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°	7450.0	7450.0	7450.0	7450.0	7450.0	7450.0	7450.0	7450.0	7450.0	7450.0	7450.0
2.5°	7457.1	7481.8	7499.4	7520.6	7534.7	7555.9	7598.3	7623.0	7626.5	7644.1	7640.6
5°	7524.2	7559.4	7598.3	7654.7	7718.3	7771.2	7852.4	7908.8	7930.0	7947.7	7944.1
7.5°	7668.8	7718.3	7788.8	7887.7	7979.4	8050.0	8148.8	8215.9	8282.9	8307.6	8311.2
10°	7884.1	7954.7	8057.1	8191.2	8290.0	8381.7	8484.1	8540.5	8607.6	8635.8	8650.0
12.5°	8152.3	8226.5	8360.6	8547.6	8639.4	8702.9	8738.2	8724.1	8738.2	8762.9	8769.9
15°	8459.4	8540.5	8692.3	8893.5	8957.0	8900.5	8822.9	8752.3	8741.7	8748.8	8773.5
17.5°	8822.9	8882.9	9059.3	9228.7	9182.9	8949.9	8780.5	8667.6	8611.1	8593.5	8618.2
20°	9331.1	9331.1	9475.8	9581.6	9274.6	8879.3	8614.7	8431.1	8314.7	8265.3	8254.7
22.5°	9948.7	9892.2	9984.0	9909.9	9257.0	8681.7	8314.7	7997.1	7820.6	7750.0	7739.4
25°	10732.2	10665.1	10640.4	10181.6	9129.9	8367.6	7771.2	7386.5	7231.2	7192.4	7199.5
27.5°	11914.4	11745.0	11423.9	10329.8	8897.0	7873.5	7135.9	6779.5	6691.3	6694.8	6705.4
30°	13488.4	13149.6	12362.6	10354.5	8515.8	7174.8	6486.6	6232.5	6190.1	6207.8	6267.8
32.5°	14946.0	14624.8	13322.6	10241.6	7930.0	6490.1	5904.3	5734.9	5671.3	5692.5	5720.8
35°	16089.4	16001.2	14211.9	10082.8	7210.1	5847.8	5382.0	5237.3	5113.7	5085.5	5106.7
37.5°	17169.3	17134.0	14878.9	9860.5	6497.2	5392.5	4962.0	4771.4	4591.4	4492.6	4496.1
40°	18355.1	18319.8	15316.5	9518.1	5865.5	4997.3	4584.4	4333.8	4111.5	3931.5	3949.1
42.5°	19689.1	19480.9	15524.7	9027.6	5329.0	4662.0	4277.3	3938.5	3645.6	3479.7	3490.3
45°	21146.7	20677.3	15521.2	8402.9	4877.3	4355.0	3949.1	3469.2	3197.4	3042.1	3035.1
47.5°	22692.4	21820.7	15330.6	7711.2	4439.7	4016.2	3440.9	3073.9	2893.9	2798.6	2777.4
50°	24287.6	22890.1	15006.0	6917.1	3991.5	3631.5	3123.3	2872.7	2735.1	2646.9	2615.1
52.5°	25787.5	23860.6	14614.2	6017.2	3536.2	3257.4	2982.1	2788.0	2643.3	2544.5	2502.2
55°	27181.5	24697.0	14060.1	5096.1	3165.6	3006.8	2915.1	2752.7	2586.9	2470.4	2424.5
57.5°	28420.3	25240.5	13103.7	4231.5	2901.0	2833.9	2844.5	2692.7	2502.2	2403.4	2339.8
60°	29450.8	25639.3	11688.6	3430.3	2685.7	2664.5	2735.1	2579.8	2357.5	2244.5	2195.1
62.5°	30068.4	25632.2	9952.2	2809.2	2502.2	2509.2	2590.4	2438.6	2212.8	2106.9	2075.1
65°	30015.4	25004.0	8046.5	2403.4	2325.7	2332.8	2438.6	2283.4	2092.8	2029.3	2025.7
67.5°	28953.2	23472.4	6172.5	2138.7	2131.6	2163.4	2286.9	2177.5	2018.7	2011.6	2022.2
70°	26076.9	20292.6	4446.7	1926.9	1930.4	1976.3	2138.7	2110.4	1979.9	1994.0	1990.4
72.5°	20910.2	15471.8	2985.7	1704.6	1708.1	1782.2	1997.5	2057.5	1941.0	2128.1	2156.3
75°	13926.0	9648.7	1919.9	1468.1	1471.7	1566.9	1874.0	1955.2	1835.2	2121.0	2138.7
77.5°	6691.3	4337.3	1390.5	1235.2	1235.2	1323.4	1619.9	1750.5	1563.4	1648.1	1510.5
80°	2311.6	1630.5	1094.0	995.2	974.0	1034.0	1365.8	1517.5	1348.1	1242.3	1164.6
82.5°	910.5	847.0	878.8	772.9	702.3	741.1	1062.3	1252.8	991.7	896.4	892.9
85°	522.3	550.5	621.1	511.7	405.9	455.3	779.9	899.9	748.2	660.0	674.1
87.5°	141.2	194.1	285.9	264.7	183.5	194.1	370.6	497.6	430.6	331.7	342.3
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)