

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: P954487

Luminaire Tested: **GALN-SB7D-722-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P954487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7D-722-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61373 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - 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

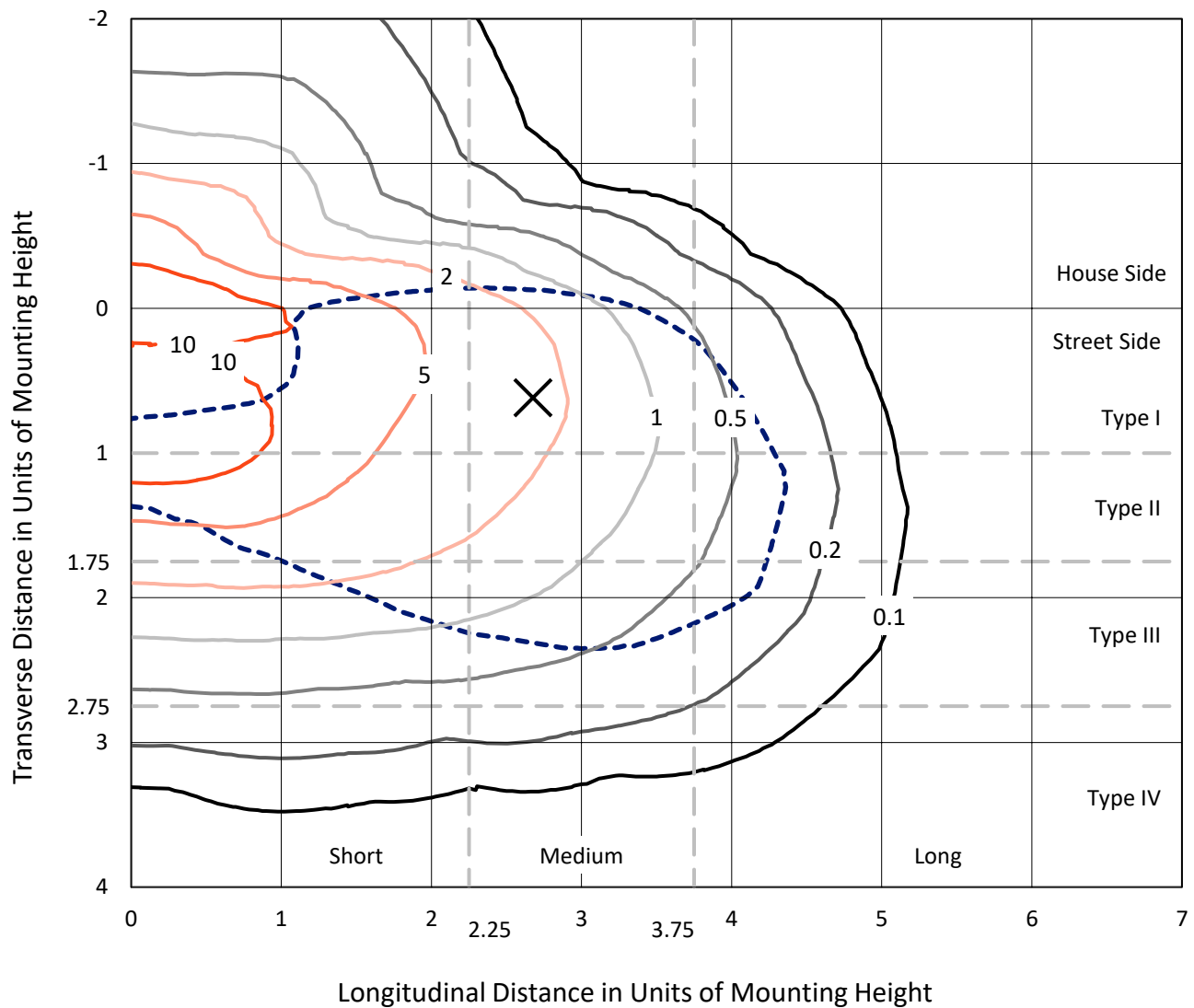


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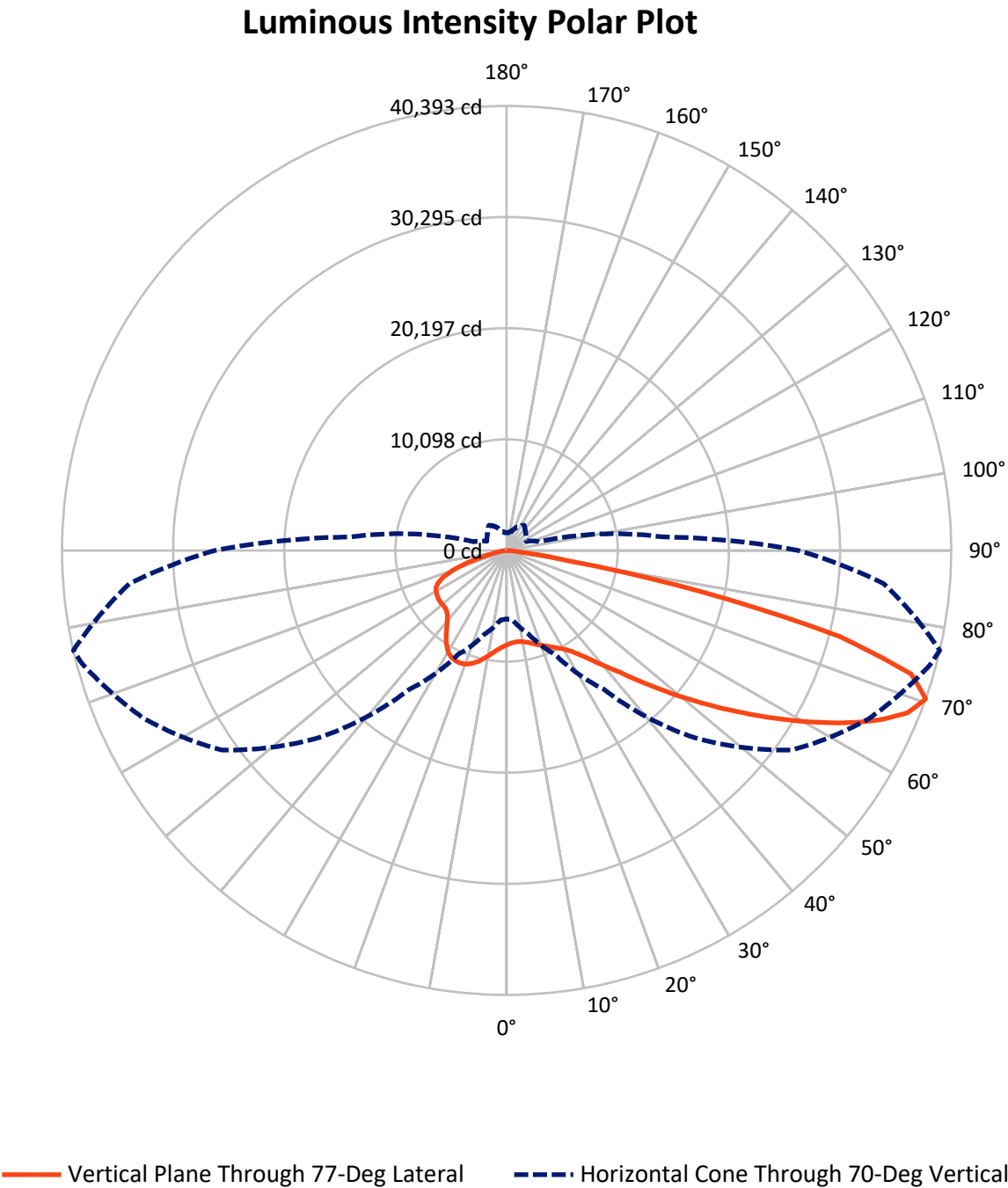
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
Type III - Medium - N/A

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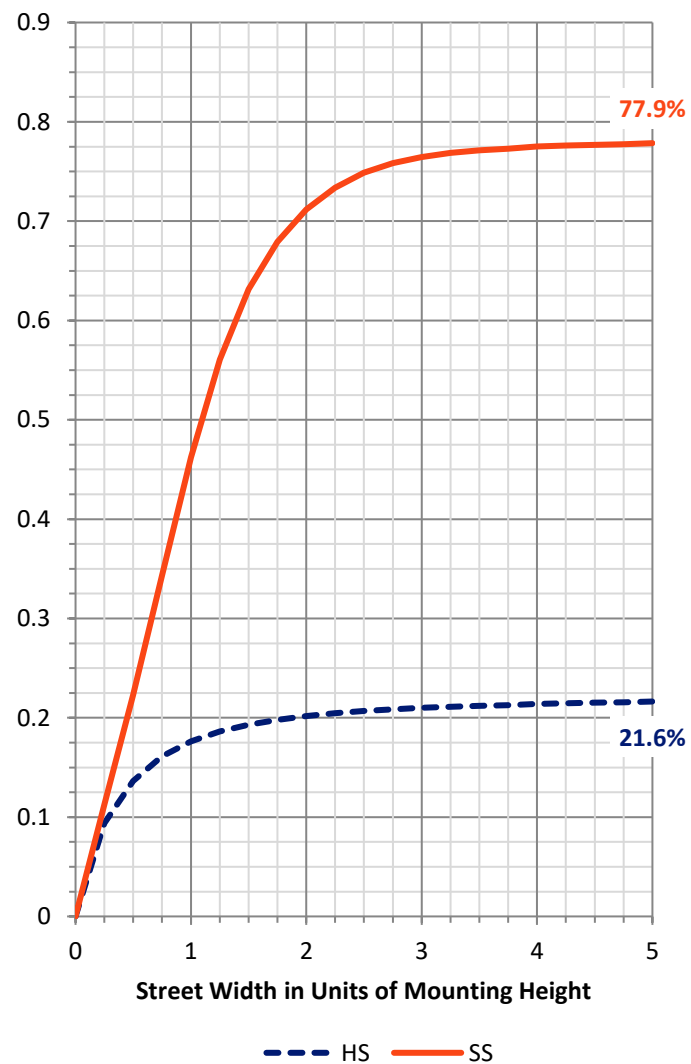
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13439.7	0.0	13439.7
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	47933.3	0.0	47933.3
	% Fixture	78.1	0.0	78.1
Total	Lumens	61373.0	0.0	61373.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	816.6	1.3
10°-20°	2356.8	3.8
20°-30°	4030.4	6.6
30°-40°	6481.3	10.6
40°-50°	10119.0	16.5
50°-60°	13516.6	22.0
60°-70°	14406.6	23.5
70°-80°	8868.6	14.5
80°-90°	777.1	1.3
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°	61373.0	100.0
0°-180°	61373.0	100.0

Coefficient of Utilization



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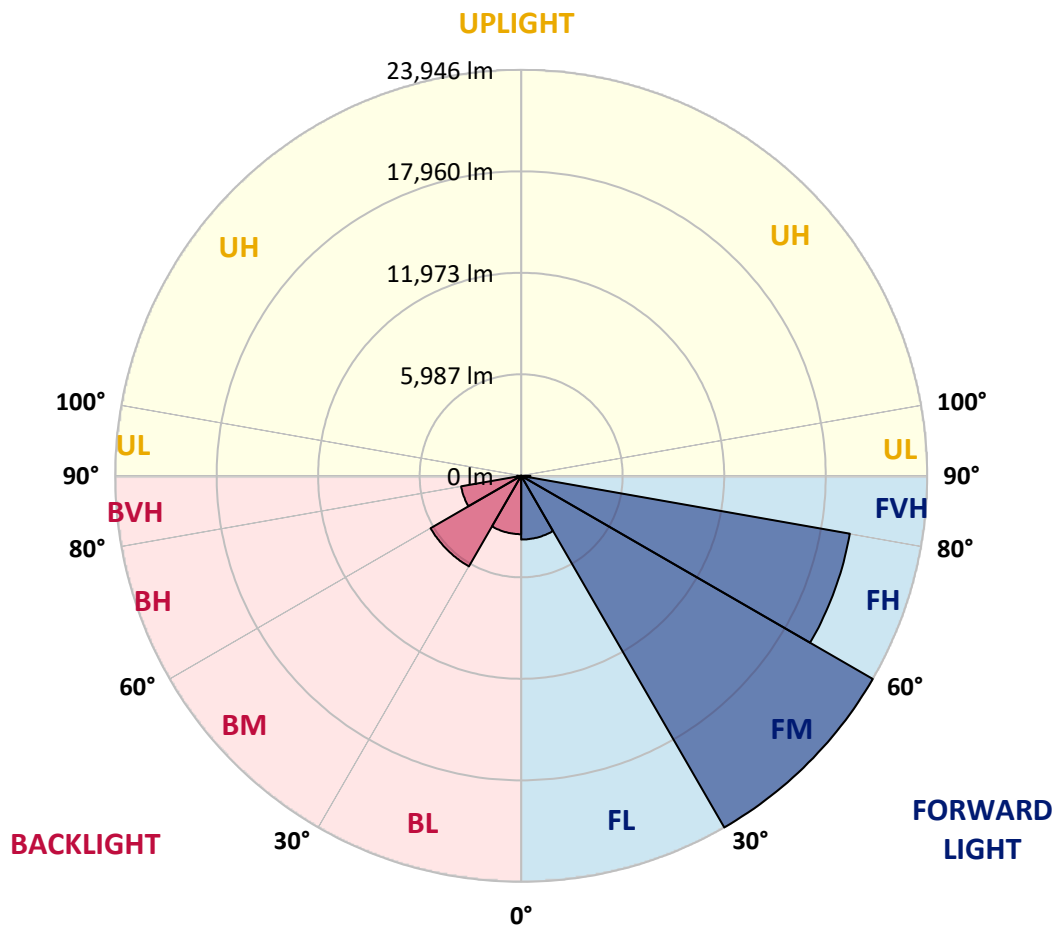
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3760.1	6.1			
FM	(30°-60°)	23946.4	39.0			
FH	(60°-80°)	19683.3	32.1			G5
FVH	(80°-90°)	543.4	0.9			G4/750
BL	(0°-30°)	3443.7	5.6	B4/5000		
BM	(30°-60°)	6170.5	10.1	B4/8500		
BH	(60°-80°)	3591.9	5.9	B4/5000		G4/5000
BVH	(80°-90°)	233.7	0.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	8562.1	8562.1	8562.1	8562.1	8562.1	8562.1	8562.1	8562.1	8562.1	8562.1	8562.1
2.5°	7892.6	7889.4	7930.3	7942.9	8018.3	8071.8	8172.3	8279.2	8417.5	8433.2	8518.1
5°	7436.8	7436.8	7484.0	7534.3	7631.7	7738.6	7892.6	8078.0	8316.9	8354.6	8565.2
7.5°	7050.2	7075.4	7116.2	7213.7	7326.8	7480.8	7716.6	7980.6	8294.9	8354.6	8694.1
10°	6739.0	6767.3	6817.6	6896.2	7065.9	7279.7	7587.7	7927.2	8348.4	8442.7	8882.7
12.5°	6641.6	6669.9	6698.2	6757.9	6915.1	7166.5	7534.3	7952.3	8477.2	8571.5	9140.4
15°	6867.9	6902.5	6880.5	6864.8	6946.5	7175.9	7559.4	8043.5	8637.5	8772.7	9457.9
17.5°	7389.7	7402.3	7352.0	7204.2	7191.7	7314.2	7678.9	8169.2	8838.7	8986.4	9778.5
20°	8232.1	8210.1	8106.3	7814.0	7647.4	7622.3	7883.2	8357.8	9046.1	9203.3	10124.3
22.5°	9376.2	9351.0	9143.6	8681.5	8310.6	8065.5	8178.6	8603.0	9278.7	9454.8	10460.6
25°	10803.2	10768.6	10463.7	9835.1	9259.9	8653.2	8581.0	8926.7	9564.8	9728.2	10812.6
27.5°	12469.1	12440.8	12110.8	11281.0	10451.2	9457.9	9080.7	9307.0	9863.4	10048.8	11208.7
30°	14260.7	14342.4	13757.8	12865.1	11815.3	10507.7	9753.4	9775.4	10250.0	10416.6	11689.6
32.5°	16366.7	16508.1	15804.0	14672.5	13239.2	11648.7	10602.0	10429.2	10812.6	10950.9	12296.2
35°	18453.8	18614.1	18029.4	16778.4	15128.3	12994.0	11488.4	11180.4	11560.7	11711.6	13100.9
37.5°	20258.0	20471.7	20170.0	19082.4	17149.3	14615.9	12645.1	12063.6	12481.7	12670.3	14182.1
40°	21681.8	22008.7	21986.7	21307.8	19531.9	16583.6	14113.0	13154.3	13625.8	13830.1	15492.9
42.5°	22838.5	23121.4	23366.6	23332.0	22018.2	18818.4	15838.6	14571.9	14930.2	15166.0	16967.0
45°	23636.9	23938.7	24466.7	25035.6	24410.1	21210.4	17815.7	16253.5	16580.4	16935.6	18724.1
47.5°	24350.4	24693.0	25378.2	26280.3	26440.6	23611.8	19981.4	18211.7	18510.3	18878.1	20487.4
50°	24413.3	24708.7	25771.1	27050.4	27883.4	25918.9	22307.3	20408.8	20688.6	21081.5	22376.5
52.5°	22895.1	23360.3	25214.8	27028.4	28546.6	27848.8	24617.6	22693.9	23008.3	23479.7	24331.6
55°	17771.7	18453.8	23583.5	26186.0	28310.9	29096.7	26814.7	25123.6	25526.0	26019.5	26299.2
57.5°	15307.4	15606.0	18720.9	24652.2	27235.9	29420.4	28669.2	27578.5	28226.0	28766.6	28380.0
60°	13757.8	14006.1	15848.0	22266.5	25821.4	28908.1	30102.5	29866.7	30985.7	31630.1	30508.0
62.5°	12098.2	12333.9	14009.3	18592.1	24011.0	28056.3	31007.7	31979.0	33814.6	34518.7	32513.3
65°	10451.2	10652.3	12258.5	15621.7	21710.1	27204.4	31476.1	33805.2	36432.9	37162.1	34179.2
67.5°	8615.5	8782.1	10300.3	13179.5	18912.7	26038.3	31708.7	35241.6	38711.7	39337.2	35002.7
70°	6217.3	6346.1	7914.6	10422.9	15401.7	24033.0	31614.4	36260.0	39893.6	40393.3	34380.4
72.5°	2938.9	3055.2	4897.1	6767.3	10878.6	20129.1	29706.4	35452.2	38692.9	38444.6	30570.8
75°	1568.5	1669.0	2813.2	3712.1	5745.8	13798.7	24309.6	30539.4	32491.3	31284.3	22593.4
77.5°	1062.4	1141.0	1741.3	2228.5	2624.6	6550.4	15624.9	21144.3	20342.8	18350.0	11315.5
80°	842.4	924.1	1427.0	1508.7	1269.9	2366.8	6456.1	9787.9	7031.4	5623.2	3218.6
82.5°	647.5	738.7	1200.7	1093.8	691.5	971.3	1879.6	3096.1	1801.1	1370.4	779.5
85°	396.0	493.5	943.0	697.8	389.8	443.2	638.1	861.2	550.1	458.9	279.7
87.5°	201.2	282.9	477.8	254.6	176.0	103.7	169.7	169.7	144.6	125.7	72.3
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°	8562.1	8562.1	8562.1	8562.1	8562.1	8562.1	8562.1	8562.1	8562.1	8562.1	8562.1
2.5°	8593.5	8656.4	8763.3	8863.8	8942.4	9017.9	9093.3	9134.2	9146.7	9197.0	9225.3
5°	8694.1	8810.4	9017.9	9212.7	9335.3	9410.8	9464.2	9495.6	9501.9	9517.6	9542.8
7.5°	8879.6	9065.0	9354.2	9549.1	9640.2	9633.9	9611.9	9533.3	9501.9	9473.6	9479.9
10°	9140.4	9385.6	9740.8	9876.0	9819.4	9668.5	9473.6	9244.2	9137.3	9033.6	9002.1
12.5°	9464.2	9775.4	10124.3	10118.0	9838.2	9451.6	8999.0	8647.0	8423.8	8263.5	8225.8
15°	9857.1	10215.4	10482.6	10268.9	9655.9	8961.3	8298.1	7839.2	7638.0	7462.0	7443.1
17.5°	10262.6	10646.0	10768.6	10221.7	9197.0	8235.2	7484.0	7122.5	6924.5	6830.2	6858.5
20°	10658.6	11038.9	10938.4	9951.4	8499.2	7411.7	6742.2	6544.2	6503.3	6525.3	6515.9
22.5°	11076.7	11416.1	10972.9	9429.6	7609.7	6569.3	6201.5	6207.8	6299.0	6365.0	6380.7
25°	11504.1	11733.6	10881.8	8675.2	6654.2	5950.1	5858.9	5959.5	6138.7	6267.6	6302.1
27.5°	11915.9	12016.5	10683.8	7741.7	5833.8	5506.9	5522.6	5730.1	6000.4	6179.5	6223.5
30°	12381.1	12267.9	10303.4	6691.9	5264.9	5126.6	5258.6	5500.6	5770.9	5931.2	5968.9
32.5°	12906.0	12484.8	9699.9	5720.6	4862.5	4821.7	5038.6	5195.7	5315.2	5362.3	5387.5
35°	13559.8	12789.7	8926.7	5038.6	4501.1	4598.5	4806.0	4727.4	4680.2	4655.1	4680.2
37.5°	14408.5	13201.5	8021.5	4595.4	4208.8	4438.2	4523.1	4277.9	4092.5	4001.3	4023.3
40°	15430.0	13805.0	7150.8	4252.8	4023.3	4299.9	4152.2	3856.7	3621.0	3492.1	3501.5
42.5°	16564.7	14436.7	6418.4	3995.0	3919.6	4186.8	3878.7	3526.7	3146.3	3105.5	3146.3
45°	17756.0	15087.4	5918.7	3797.0	3869.3	4089.3	3721.6	3152.6	2882.3	3048.9	3136.9
47.5°	18947.2	15684.6	5616.9	3649.3	3844.1	3979.3	3583.3	2945.2	2753.4	2995.5	3108.6
50°	20273.7	16218.9	5481.8	3542.4	3815.9	3935.3	3375.8	2891.7	2618.3	2778.6	2898.0
52.5°	21590.7	16633.8	5381.2	3435.5	3775.0	3900.7	3275.2	2828.9	2454.8	2464.3	2530.3
55°	22904.5	16904.2	5271.2	3294.1	3683.8	3825.3	3265.8	2759.7	2332.3	2288.3	2319.7
57.5°	24306.4	17058.2	5136.0	3136.9	3526.7	3633.5	3256.4	2706.3	2294.5	2222.2	2231.7
60°	25733.4	17284.5	4960.0	2945.2	3316.1	3404.1	3234.4	2687.4	2272.5	2150.0	2159.4
62.5°	27012.7	17363.1	4749.4	2762.9	3045.8	3177.8	3187.2	2671.7	2212.8	2002.2	2002.2
65°	27851.9	17023.6	4381.6	2555.4	2753.4	2945.2	3096.1	2618.3	2105.9	1895.4	1895.4
67.5°	27817.4	16055.5	3806.4	2288.3	2470.6	2687.4	2964.0	2527.1	1977.1	1763.3	1772.8
70°	26522.4	14144.4	3077.2	1977.1	2159.4	2410.8	2794.3	2392.0	1823.1	1618.8	1637.6
72.5°	22747.4	11070.4	2234.8	1612.5	1797.9	2124.8	2574.3	2228.5	1665.9	1489.9	1480.5
75°	16250.4	7006.2	1515.0	1238.4	1398.7	1801.1	2300.8	2036.8	1521.3	1496.2	1411.3
77.5°	8301.2	3347.5	1002.7	905.2	974.4	1420.7	1933.1	1819.9	1543.3	1235.3	1100.1
80°	2700.0	1235.3	631.8	616.1	647.5	946.1	1496.2	1493.0	1169.3	839.2	741.8
82.5°	861.2	531.2	411.8	396.0	380.3	594.1	1043.5	1181.8	788.9	531.2	528.1
85°	342.6	317.5	242.0	223.2	160.3	279.7	546.9	785.8	587.8	383.5	392.9
87.5°	125.7	125.7	66.0	47.1	34.6	94.3	147.7	235.7	336.3	198.0	194.9
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)