

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: P944495

Luminaire Tested: **GALN-SB9C-722-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944495
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-722-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55834 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 449.8
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



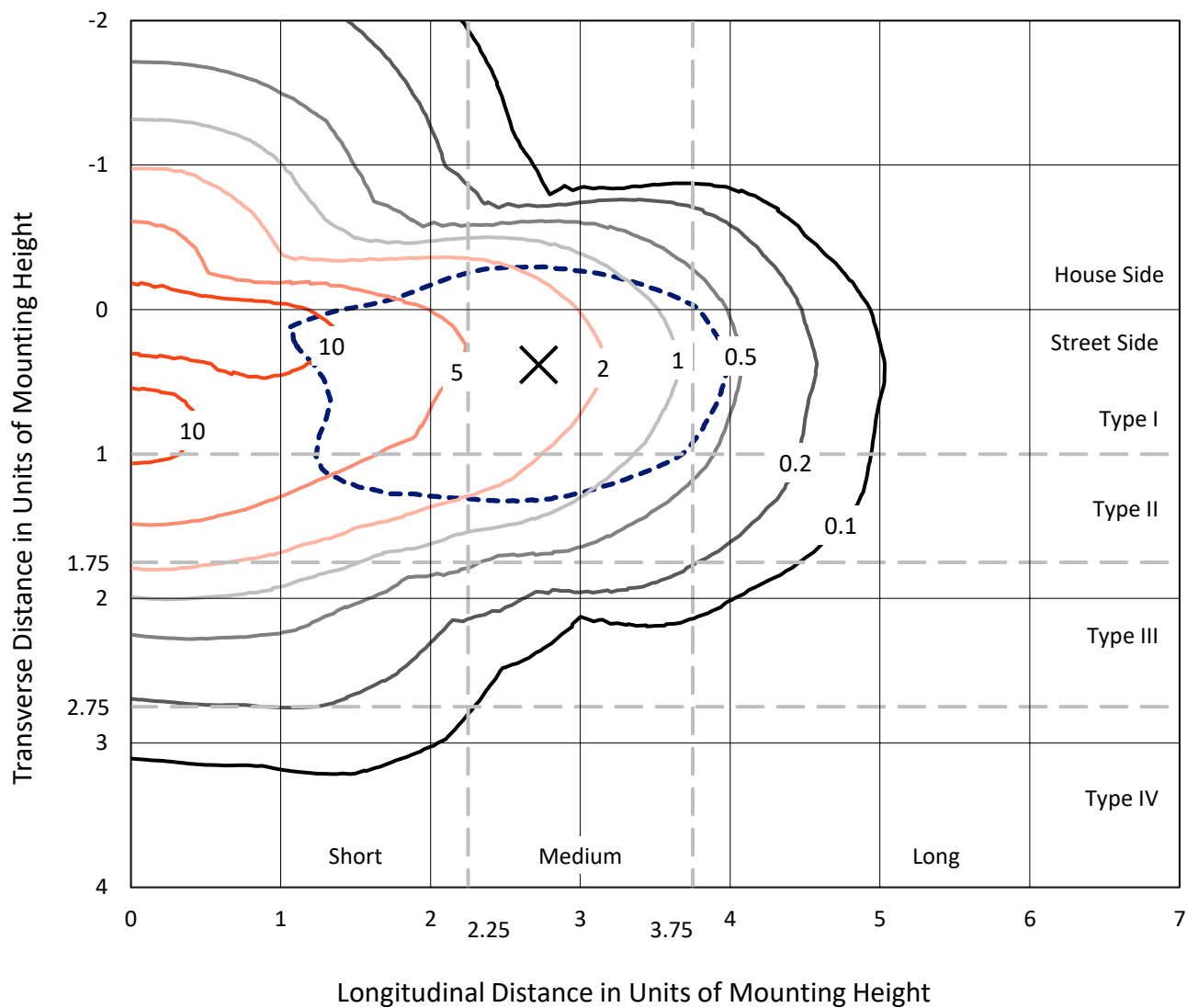
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

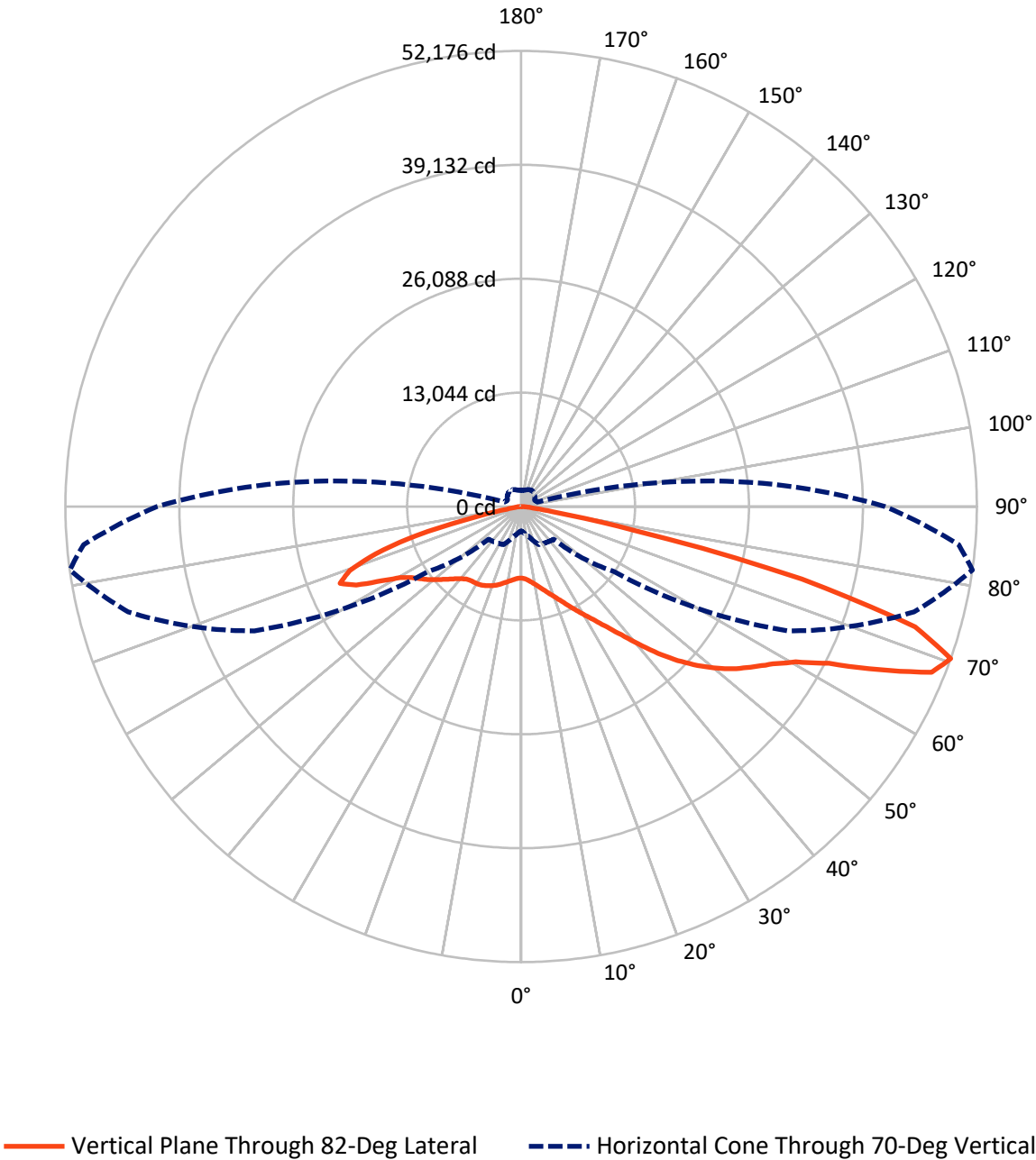
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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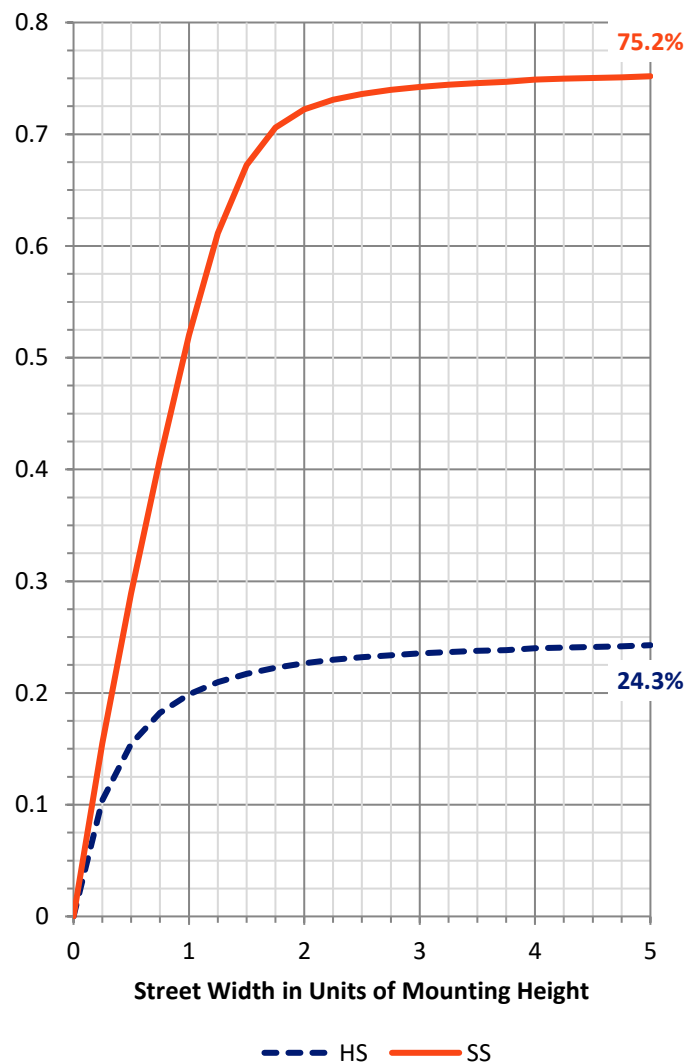
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13764.4	0.0	13764.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	42069.5	0.0	42069.5
	% Fixture	75.3	0.0	75.3
Total	Lumens	55834.0	0.0	55834.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	772.9	1.4
10°-20°	2220.6	4.0
20°-30°	3714.8	6.7
30°-40°	5803.5	10.4
40°-50°	9242.8	16.6
50°-60°	12862.4	23.0
60°-70°	13454.7	24.1
70°-80°	7032.1	12.6
80°-90°	730.2	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°	55834.0	100.0
0°-180°	55834.0	100.0

Coefficient of Utilization



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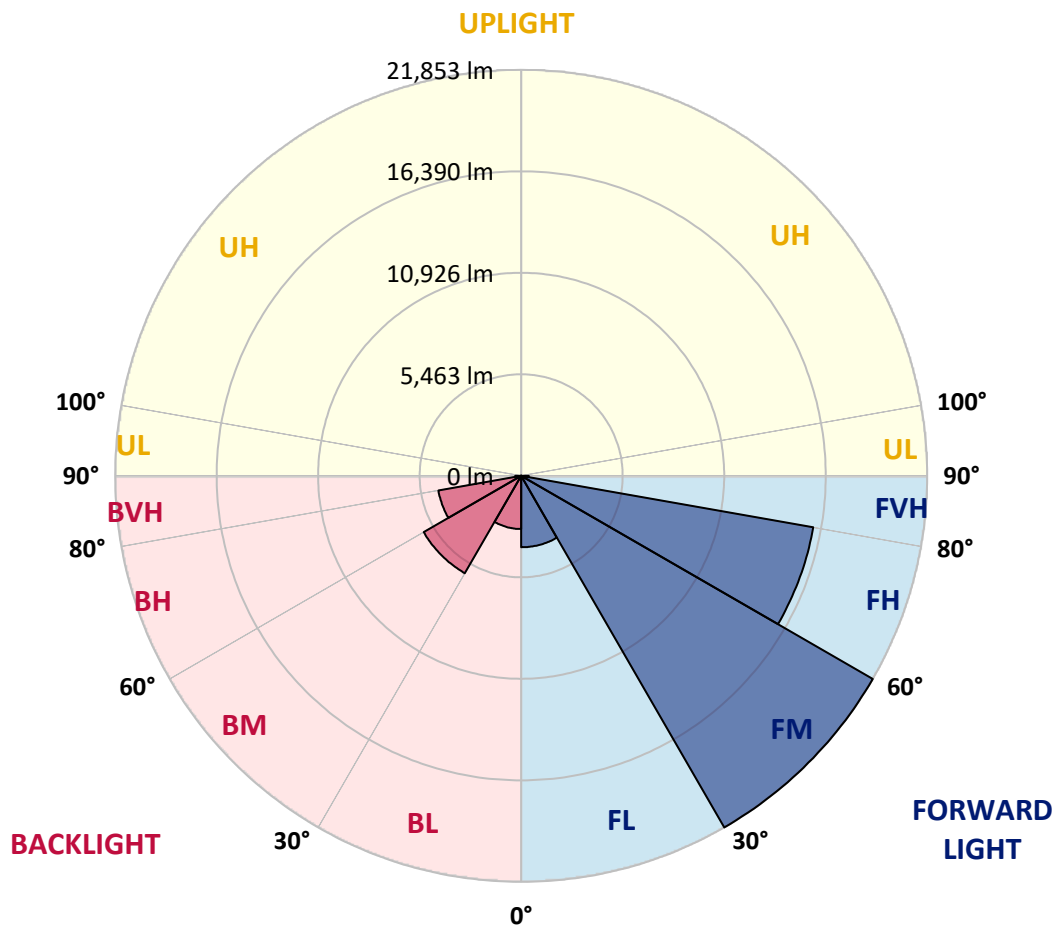
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3844.8	6.9			
FM	(30°-60°)	21852.9	39.1			
FH	(60°-80°)	15963.1	28.6			G5
FVH	(80°-90°)	408.8	0.7			G3/500
BL	(0°-30°)	2863.5	5.1	B4/5000		
BM	(30°-60°)	6055.8	10.8	B4/8500		
BH	(60°-80°)	4523.7	8.1	B4/5000		G4/5000
BVH	(80°-90°)	321.4	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	8186.0	8186.0	8186.0	8186.0	8186.0	8186.0	8186.0	8186.0	8186.0	8186.0	8186.0
2.5°	8381.5	8428.9	8414.1	8399.3	8399.3	8378.5	8375.6	8345.9	8322.2	8283.7	8274.8
5°	8488.2	8538.5	8532.6	8544.5	8583.0	8591.9	8600.7	8583.0	8535.6	8488.2	8467.4
7.5°	8393.4	8449.6	8467.4	8538.5	8657.0	8763.7	8843.7	8876.3	8831.8	8763.7	8731.1
10°	8073.4	8135.6	8197.8	8366.7	8577.0	8828.9	9042.2	9169.6	9160.7	9095.5	9039.2
12.5°	7424.5	7489.7	7623.0	7951.9	8337.1	8781.5	9178.5	9445.1	9537.0	9489.6	9391.8
15°	6906.1	6962.4	7063.1	7400.8	7901.5	8577.0	9228.8	9747.3	9981.4	9954.7	9836.2
17.5°	6891.3	6915.0	6977.2	7137.2	7522.3	8257.1	9175.5	10043.6	10490.9	10488.0	10339.9
20°	7152.0	7160.9	7196.4	7229.0	7448.2	8014.1	9039.2	10289.5	11062.8	11062.8	10902.8
22.5°	7513.4	7507.5	7543.1	7513.4	7620.1	7993.4	8953.3	10505.8	11699.7	11747.1	11545.7
25°	8055.6	8026.0	8017.1	7948.9	7969.7	8186.0	9048.1	10751.7	12455.2	12553.0	12301.2
27.5°	8778.5	8731.1	8698.5	8541.5	8488.2	8583.0	9338.5	11047.9	13296.6	13465.5	13145.5
30°	9720.6	9634.7	9587.3	9314.8	9122.2	9137.0	9776.9	11442.0	14176.6	14449.1	14043.2
32.5°	11006.5	10873.1	10745.7	10298.4	9945.8	9830.3	10342.8	11987.1	15130.6	15566.1	15044.6
35°	12446.3	12339.7	12203.4	11513.1	10970.9	10704.3	11107.2	12748.5	16247.5	16937.8	16259.3
37.5°	13832.9	13741.0	13806.2	12875.9	12176.7	11788.6	12108.6	13770.7	17625.2	18644.3	17782.2
40°	15266.8	15195.7	15204.6	14315.8	13501.1	13065.5	13323.3	15053.5	19204.3	20673.8	19613.1
42.5°	16825.2	16771.9	16594.1	15806.0	14890.6	14484.7	14721.7	16534.9	20898.9	22984.7	21621.8
45°	18570.3	18537.7	18371.8	17468.1	16419.3	15963.1	16283.0	18170.3	22602.5	25159.3	23639.4
47.5°	20078.3	20104.9	20084.2	19322.8	18235.5	17565.9	17948.1	19876.8	24187.5	27203.6	25574.1
50°	20804.1	20943.4	21147.8	20910.8	20235.3	19553.9	19627.9	21524.1	25698.5	29120.5	27428.8
52.5°	20424.9	20688.6	21245.6	21624.8	21885.5	21743.3	21544.8	23159.5	27120.6	30850.7	29182.7
55°	19011.7	19382.0	20306.4	21221.9	22552.1	23586.1	23846.8	24972.7	28507.2	32373.5	30841.8
57.5°	16437.1	17038.5	17868.1	19719.8	21959.6	24477.9	26531.1	27488.0	29976.7	34000.0	32577.9
60°	12022.7	12828.5	13859.5	16614.9	19885.7	24000.9	28815.3	31351.4	32065.4	36106.5	34838.5
62.5°	7694.2	8191.9	9140.0	11735.3	15495.0	21556.7	29514.5	36180.6	35605.8	39561.0	38227.8
65°	5267.7	5587.7	6455.7	7913.4	10016.9	16046.0	27642.1	39801.0	41229.0	45036.1	44022.9
67.5°	3827.8	4070.8	4811.4	6088.4	6526.8	9495.5	21450.0	39635.1	46695.2	50677.1	49101.0
70°	2790.9	2962.7	3584.9	4811.4	5021.8	5282.5	12994.4	33691.9	46576.7	52176.3	50289.0
72.5°	2068.0	2186.5	2604.2	3733.0	4064.8	3567.1	6432.0	24486.8	40023.2	47193.0	45679.0
75°	1496.2	1585.0	1893.2	2856.1	3253.1	2716.8	3208.6	14309.9	27917.6	33197.1	33463.8
77.5°	1143.6	1211.7	1413.2	2091.7	2604.2	2038.3	1990.9	6583.1	13237.4	13302.6	14049.2
80°	918.4	962.9	1072.5	1472.5	1996.9	1525.8	1297.7	2657.5	4183.3	3540.4	3715.2
82.5°	675.5	749.6	906.6	1034.0	1428.0	1051.8	791.0	1342.1	1591.0	1368.8	1380.6
85°	385.2	435.5	548.1	740.7	912.5	642.9	453.3	595.5	740.7	607.4	542.2
87.5°	136.3	177.8	192.6	290.3	397.0	266.6	174.8	171.8	242.9	180.7	151.1
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°	8186.0	8186.0	8186.0	8186.0	8186.0	8186.0	8186.0	8186.0	8186.0	8186.0	8186.0
2.5°	8245.2	8230.4	8171.1	8091.2	8008.2	7928.2	7901.5	7845.3	7806.7	7786.0	7809.7
5°	8411.1	8363.7	8224.5	8046.7	7860.1	7658.6	7516.4	7386.0	7291.2	7202.3	7237.9
7.5°	8648.1	8565.2	8325.2	8014.1	7682.3	7347.5	7098.6	6909.0	6781.6	6698.7	6716.5
10°	8923.7	8796.3	8428.9	7963.8	7451.2	6971.3	6677.9	6515.0	6435.0	6390.6	6402.4
12.5°	9240.7	9060.0	8535.6	7848.2	7098.6	6550.5	6349.1	6301.7	6304.6	6307.6	6313.5
15°	9631.8	9379.9	8621.5	7596.4	6639.4	6227.6	6192.1	6269.1	6349.1	6387.6	6384.6
17.5°	10073.2	9717.7	8636.3	7181.6	6189.1	6020.2	6132.8	6298.7	6420.2	6473.5	6485.4
20°	10547.2	10061.4	8529.6	6595.0	5818.8	5851.3	6052.8	6266.1	6399.4	6467.6	6485.4
22.5°	11089.4	10428.7	8274.8	5978.7	5516.6	5667.7	5904.7	6112.1	6251.3	6319.5	6337.2
25°	11708.6	10840.5	7874.9	5460.3	5255.8	5460.3	5697.3	5869.1	5981.7	6043.9	6061.7
27.5°	12396.0	11270.1	7341.6	5048.5	5027.7	5247.0	5442.5	5575.8	5635.1	5682.5	5700.3
30°	13086.3	11661.2	6695.7	4737.4	4829.2	5036.6	5175.9	5235.1	5252.9	5261.8	5282.5
32.5°	13832.9	11999.0	6017.3	4479.6	4639.6	4832.2	4915.1	4941.8	4858.8	4802.5	4820.3
35°	14736.5	12360.4	5353.6	4275.2	4453.0	4618.9	4645.5	4621.8	4524.1	4408.5	4414.4
37.5°	15853.5	12810.7	4823.3	4130.0	4278.2	4387.8	4355.2	4349.3	4358.1	4221.9	4230.7
40°	17222.2	13397.4	4435.2	4017.4	4135.9	4159.6	4067.8	4118.2	4162.6	3955.2	3961.1
42.5°	18742.1	14105.5	4189.3	3940.4	4017.4	3961.1	3818.9	3875.2	3869.3	3596.7	3593.8
45°	20291.6	14875.8	4103.4	3884.1	3907.8	3795.2	3638.2	3653.0	3528.6	3282.7	3291.6
47.5°	21832.2	15702.4	4156.7	3836.7	3771.5	3644.1	3522.7	3457.5	3273.8	3090.1	3090.1
50°	23343.2	16570.4	4352.2	3741.9	3584.9	3510.8	3421.9	3306.4	3110.8	2953.8	2942.0
52.5°	24744.5	17444.4	4571.5	3584.9	3350.8	3395.3	3339.0	3205.7	3013.1	2853.1	2856.1
55°	26071.8	18318.4	4657.4	3368.6	3131.6	3294.5	3261.9	3016.0	2784.9	2654.6	2642.7
57.5°	27517.6	19370.2	4562.6	3093.1	2953.8	3179.0	3054.6	2782.0	2648.7	2550.9	2542.0
60°	29520.4	21020.4	4358.1	2752.4	2784.9	3007.1	2793.8	2681.3	2536.1	2426.5	2420.5
62.5°	32847.5	24098.7	4029.3	2414.6	2586.4	2752.4	2669.4	2556.8	2408.7	2302.0	2302.0
65°	37765.6	28376.8	3410.1	2150.9	2364.2	2503.5	2536.1	2423.5	2269.4	2156.9	2162.8
67.5°	41913.4	31061.0	2580.5	1931.7	2136.1	2302.0	2393.9	2284.2	2121.3	2011.7	2014.6
70°	41685.3	29111.6	1970.2	1715.4	1934.6	2103.5	2222.0	2136.1	1961.3	1857.6	1866.5
72.5°	37025.0	24353.5	1593.9	1496.2	1730.2	1896.1	2038.3	1973.2	1795.4	1694.7	1694.7
75°	27200.6	17287.4	1274.0	1274.0	1475.4	1679.9	1836.9	1795.4	1632.5	1561.3	1540.6
77.5°	11465.7	7252.7	998.4	1057.7	1226.6	1442.8	1638.4	1653.2	1511.0	1599.9	1451.7
80°	3048.6	1999.8	761.4	832.5	962.9	1191.0	1425.1	1419.1	1265.1	1182.1	1099.2
82.5°	1161.4	788.1	542.2	586.6	696.2	912.5	1128.8	1164.3	1010.3	874.0	874.0
85°	447.4	337.7	334.8	352.6	405.9	604.4	853.3	882.9	761.4	645.9	666.6
87.5°	115.5	100.7	124.4	118.5	186.7	322.9	488.8	506.6	465.1	269.6	385.2
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)