

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: P939236

Luminaire Tested: **GALN-SB1D-727-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939236
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-SB1D-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7405 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 79.6
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

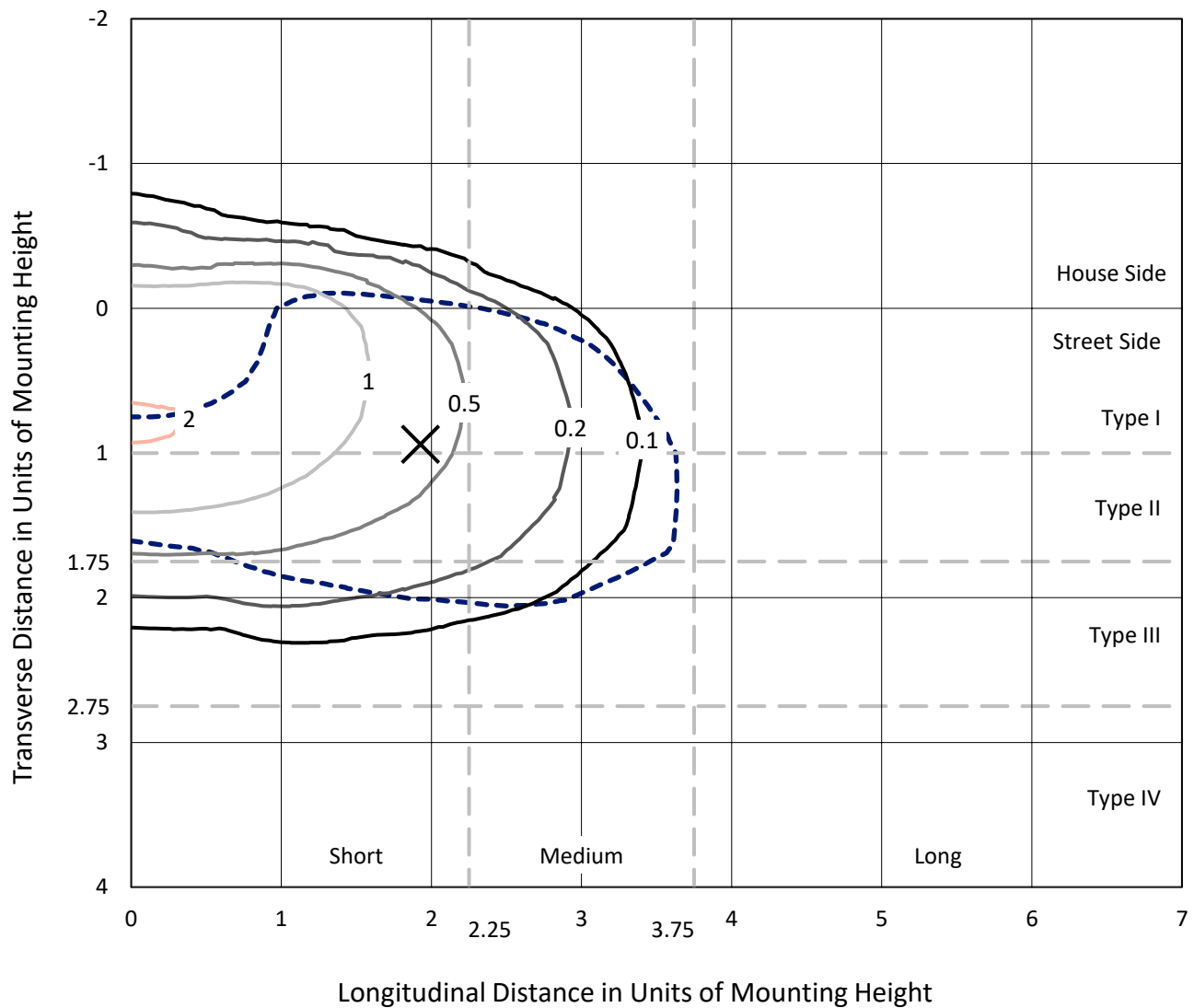


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

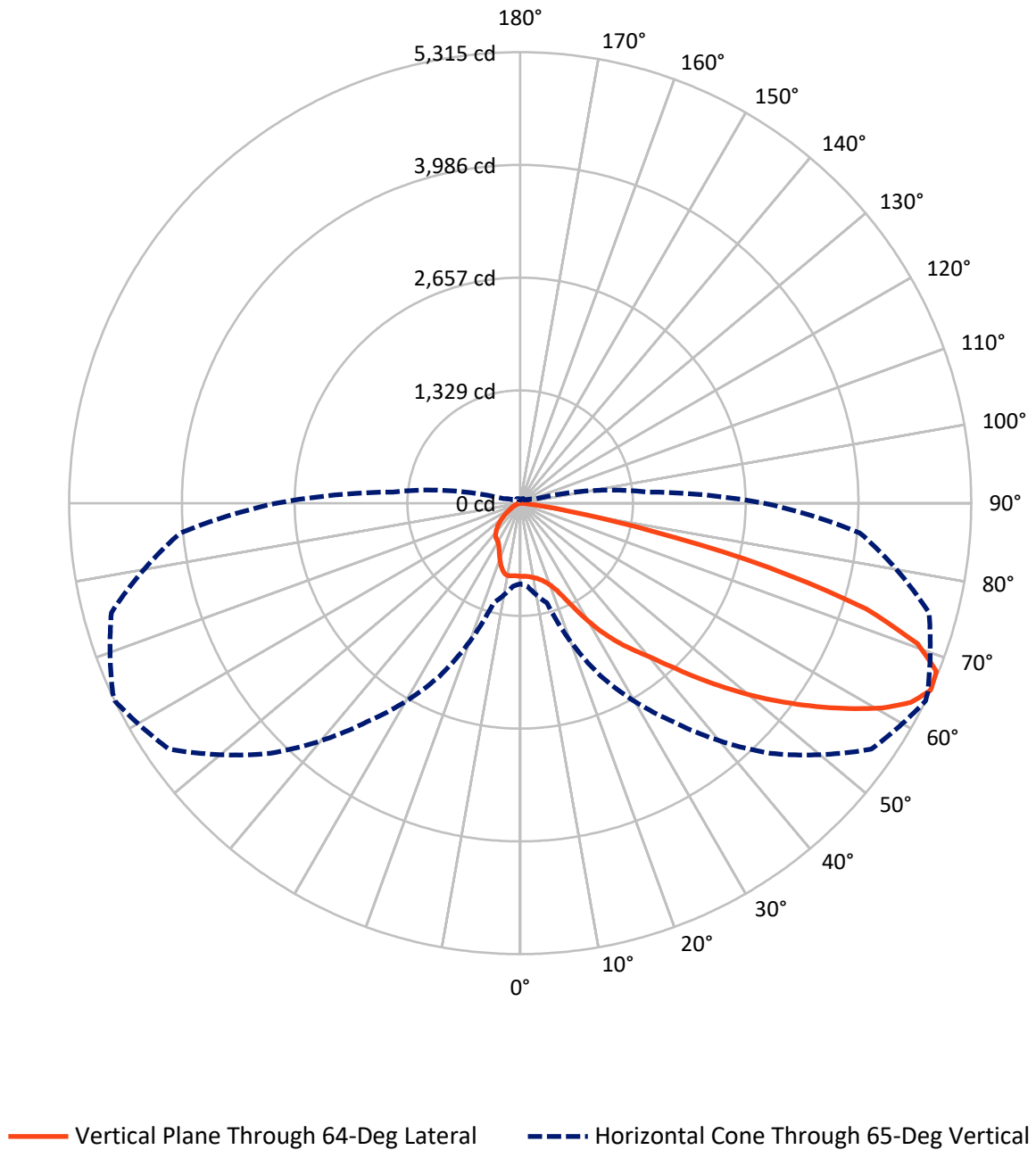


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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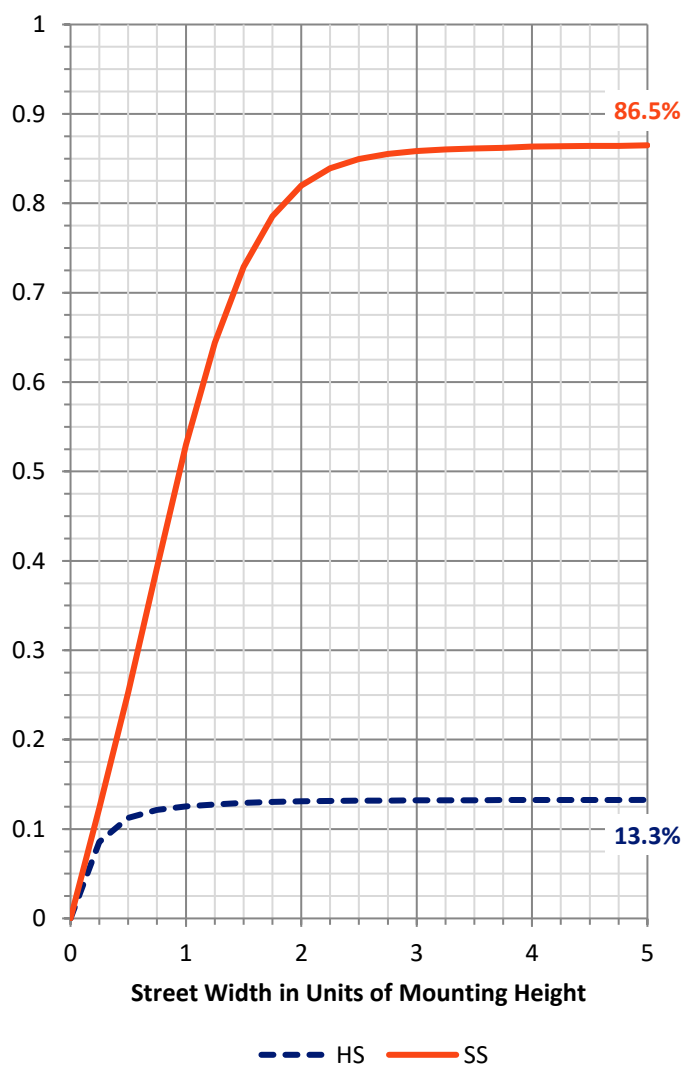
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	990.3	0.0	990.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	6414.7	0.0	6414.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	7405.0	0.0	7405.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.5	1.1
10°-20°	215.5	2.9
20°-30°	408.4	5.5
30°-40°	826.4	11.2
40°-50°	1407.8	19.0
50°-60°	1914.5	25.9
60°-70°	1797.8	24.3
70°-80°	720.3	9.7
80°-90°	34.9	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°	7405.0	100.0
0°-180°	7405.0	100.0

Coefficient of Utilization



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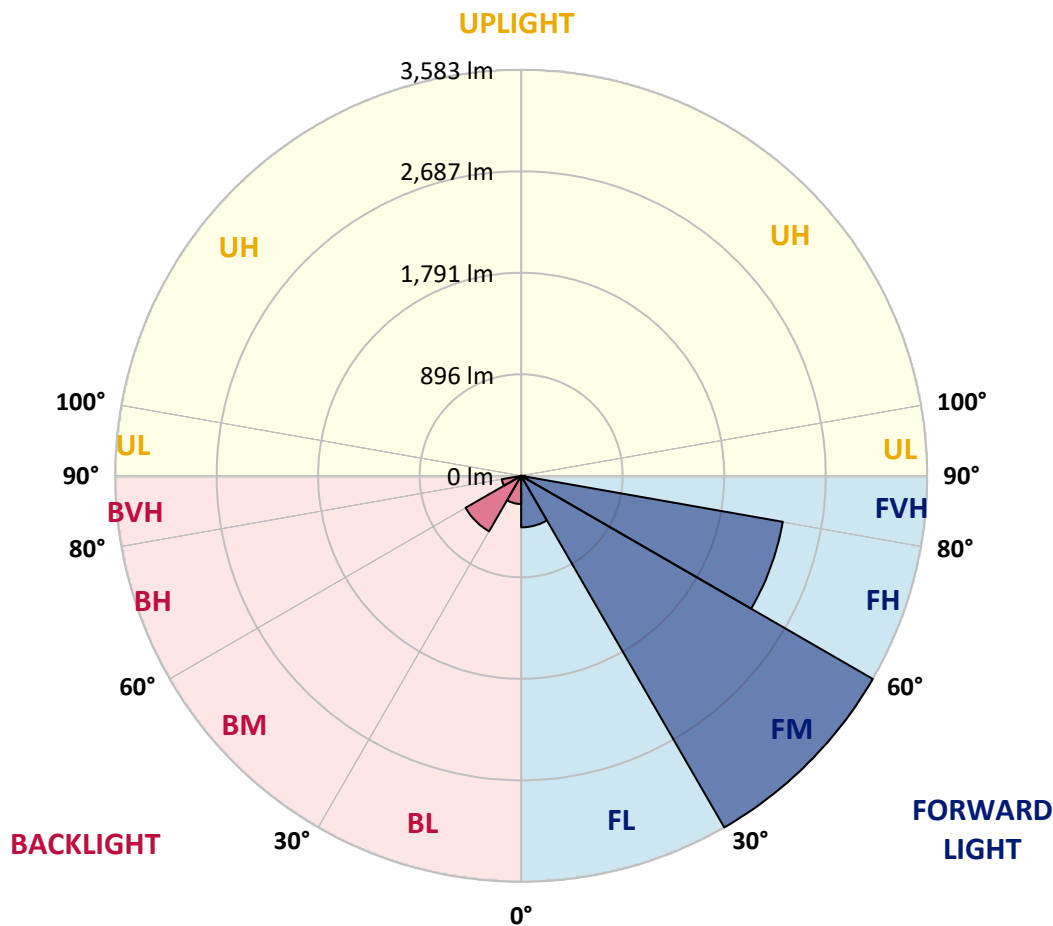
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	454.8	6.1			
FM	(30°-60°)	3582.5	48.4			
FH	(60°-80°)	2344.3	31.7			G2/5000
FVH	(80°-90°)	33.2	0.4			G1/100
BL	(0°-30°)	248.6	3.4	B1/500		
BM	(30°-60°)	566.1	7.6	B1/1000		
BH	(60°-80°)	173.8	2.3	B1/500		G1/500
BVH	(80°-90°)	1.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	861.3	861.3	861.3	861.3	861.3	861.3	861.3	861.3	861.3	861.3	861.3
2.5°	858.3	864.3	862.8	861.3	860.8	861.8	862.3	861.8	861.8	861.8	862.3
5°	841.9	846.9	846.9	850.4	855.3	861.3	865.7	866.7	867.7	869.2	868.7
7.5°	810.6	814.6	817.6	829.0	841.4	857.3	870.7	877.7	878.7	884.1	886.1
10°	789.3	794.3	799.2	811.1	829.0	852.8	875.7	892.6	895.0	907.9	913.9
12.5°	788.3	793.3	799.7	812.6	833.5	858.8	886.6	910.9	915.4	934.3	946.7
15°	798.7	804.7	810.6	826.5	848.9	879.6	909.4	939.7	944.2	971.0	984.4
17.5°	820.1	828.0	832.5	848.4	872.2	906.5	945.7	980.4	984.4	1015.7	1032.5
20°	862.3	871.7	873.2	886.1	909.4	946.2	992.8	1036.0	1041.0	1076.7	1095.6
22.5°	949.6	963.0	951.1	957.6	978.4	1015.2	1065.8	1120.4	1127.4	1168.1	1184.9
25°	1103.5	1122.4	1091.6	1080.7	1089.6	1127.9	1191.4	1260.4	1268.3	1301.1	1309.5
27.5°	1405.8	1381.5	1334.9	1289.2	1262.4	1284.2	1355.7	1441.1	1451.0	1482.8	1472.9
30°	1737.9	1716.6	1653.6	1552.3	1488.7	1485.3	1551.3	1646.6	1658.0	1688.3	1658.0
32.5°	2070.5	2050.2	1981.7	1857.1	1746.9	1692.3	1737.9	1843.7	1849.6	1869.0	1824.3
35°	2397.7	2376.8	2308.3	2180.7	2045.2	1921.1	1912.2	2031.3	2033.3	2053.7	1987.1
37.5°	2726.8	2709.4	2636.5	2511.4	2377.8	2206.6	2123.7	2209.0	2211.5	2231.4	2162.4
40°	2961.6	2969.1	2918.9	2822.1	2707.4	2520.3	2360.9	2398.2	2383.3	2416.5	2375.3
42.5°	3163.2	3178.0	3134.4	3085.7	3019.2	2854.4	2654.8	2648.4	2624.5	2642.4	2599.7
45°	3337.4	3349.8	3310.6	3299.2	3297.7	3182.0	2976.0	2937.3	2904.0	2900.5	2849.4
47.5°	3401.4	3425.3	3442.1	3480.4	3554.8	3506.2	3308.1	3248.0	3210.8	3183.5	3102.6
50°	3425.8	3451.1	3508.7	3619.9	3796.1	3816.9	3638.7	3571.2	3525.5	3475.9	3356.8
52.5°	3393.0	3438.2	3515.6	3702.8	3958.4	4066.1	3955.9	3896.9	3844.7	3763.8	3587.1
55°	3199.9	3245.1	3403.4	3701.8	4039.3	4240.9	4255.8	4229.4	4170.9	4043.3	3773.2
57.5°	2792.8	2859.8	3110.5	3575.7	4037.8	4391.3	4549.6	4568.5	4503.0	4320.3	3919.7
60°	2228.9	2319.7	2625.5	3296.2	3913.2	4472.7	4807.3	4901.6	4832.1	4593.3	4038.3
62.5°	1555.3	1660.5	1949.9	2858.4	3628.3	4414.1	4995.4	5169.7	5117.0	4837.6	4084.0
65°	948.6	982.4	1215.7	2249.3	3143.8	4168.9	5053.5	5314.6	5297.2	4987.0	4016.5
67.5°	631.9	660.2	727.2	1542.4	2440.4	3678.9	4914.5	5289.3	5294.3	4962.7	3769.3
70°	380.7	405.1	448.8	897.0	1581.6	2912.0	4484.1	4966.6	4995.4	4637.5	3300.7
72.5°	156.9	173.2	213.0	406.6	819.1	1848.1	3570.7	4264.2	4331.2	3899.3	2533.2
75°	88.9	97.3	125.1	204.0	355.4	861.3	2162.9	3027.1	3125.9	2687.6	1524.0
77.5°	59.1	63.0	80.9	132.0	200.1	293.9	924.3	1577.1	1765.7	1467.9	659.7
80°	39.7	43.2	55.6	88.4	130.1	126.1	294.4	584.3	718.8	504.4	160.8
82.5°	26.8	27.3	39.7	58.1	82.4	61.1	86.9	181.7	228.4	145.9	61.1
85°	15.4	14.9	29.3	33.8	36.7	25.3	26.3	54.6	71.5	61.6	34.7
87.5°	2.0	3.0	11.4	8.9	5.0	5.5	5.5	9.4	13.9	14.9	7.4
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°	861.3	861.3	861.3	861.3	861.3	861.3	861.3	861.3	861.3	861.3	861.3
2.5°	862.3	861.8	860.3	858.8	855.3	853.3	854.3	853.3	852.8	853.3	855.3
5°	868.7	867.2	863.3	858.3	851.4	842.9	837.5	829.5	822.1	817.6	818.6
7.5°	886.1	884.6	879.1	865.2	842.9	807.7	775.4	747.1	725.8	713.3	713.8
10°	913.9	911.4	903.0	872.2	813.6	736.7	672.6	619.5	584.8	568.4	566.9
12.5°	946.7	943.7	928.8	865.7	758.0	637.9	549.5	490.5	458.2	443.8	442.3
15°	985.4	981.4	952.1	835.0	677.1	528.7	447.8	403.6	382.7	369.8	370.3
17.5°	1033.5	1026.6	969.5	788.8	589.2	445.3	385.2	352.0	333.6	321.2	320.2
20°	1096.1	1084.7	983.4	733.7	508.3	392.7	343.0	315.2	301.3	290.4	288.4
22.5°	1183.5	1167.1	1000.3	674.1	451.2	356.4	311.7	291.4	280.0	267.6	265.6
25°	1291.7	1272.3	1021.1	619.0	412.0	325.2	288.9	272.0	258.6	244.2	242.7
27.5°	1443.1	1408.3	1045.9	573.9	378.3	298.3	268.1	249.2	233.8	221.9	219.4
30°	1611.9	1554.8	1067.8	546.6	347.5	273.5	240.8	221.9	207.5	199.1	197.6
32.5°	1771.7	1694.3	1082.2	534.6	319.7	245.2	211.0	190.6	179.7	177.2	178.7
35°	1922.6	1820.4	1080.7	523.2	294.9	216.9	181.7	160.8	152.4	153.9	153.9
37.5°	2096.4	1954.9	1070.3	505.3	274.5	191.1	156.4	138.0	130.6	131.1	133.0
40°	2298.4	2110.3	1063.8	471.6	252.2	167.3	135.5	120.6	115.2	113.2	112.7
42.5°	2513.8	2260.7	1064.8	433.4	224.4	145.9	121.1	108.7	103.8	102.3	101.8
45°	2730.3	2404.1	1066.3	393.7	195.1	129.6	110.7	100.3	97.3	95.3	95.3
47.5°	2933.8	2526.3	1038.5	351.0	166.3	117.2	102.3	95.3	92.8	90.3	90.3
50°	3123.4	2607.7	971.5	301.3	143.5	107.2	95.8	90.8	88.4	85.9	85.9
52.5°	3270.9	2620.6	860.8	250.2	127.6	99.8	91.8	87.4	84.4	81.9	81.4
55°	3336.4	2539.7	703.4	202.5	115.2	93.3	87.9	83.4	79.9	77.4	76.9
57.5°	3319.5	2369.4	548.5	162.8	103.3	86.9	82.9	79.9	76.0	72.0	71.5
60°	3236.6	2141.5	413.5	135.5	92.3	79.9	77.4	75.0	69.5	63.5	62.5
62.5°	3093.2	1855.1	294.9	112.2	80.4	72.0	71.0	69.0	61.1	50.1	49.1
65°	2873.7	1507.1	198.6	93.3	69.0	63.0	63.5	60.1	49.6	37.2	36.2
67.5°	2553.1	1102.0	127.1	76.4	57.6	52.6	53.1	51.1	42.2	31.8	30.3
70°	2144.5	729.7	82.9	58.1	46.2	40.7	43.7	44.2	35.7	25.8	24.8
72.5°	1572.1	430.9	58.1	43.2	33.8	28.3	35.7	36.7	28.8	19.4	18.4
75°	896.0	204.5	43.7	31.3	20.8	19.9	27.8	27.8	19.9	12.9	11.9
77.5°	376.3	85.4	30.8	20.4	11.9	11.4	18.9	17.4	9.9	6.0	6.0
80°	108.7	38.2	16.4	9.9	5.0	4.5	7.4	5.5	2.5	1.0	1.0
82.5°	42.7	16.9	6.5	4.0	2.0	2.0	1.0	0.0	0.0	0.0	0.0
85°	25.3	6.9	3.0	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	1.5	1.0	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)