

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: P939066

Luminaire Tested: **GALN-SB1C-727-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939066
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-SB1C-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5450 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 54.4
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

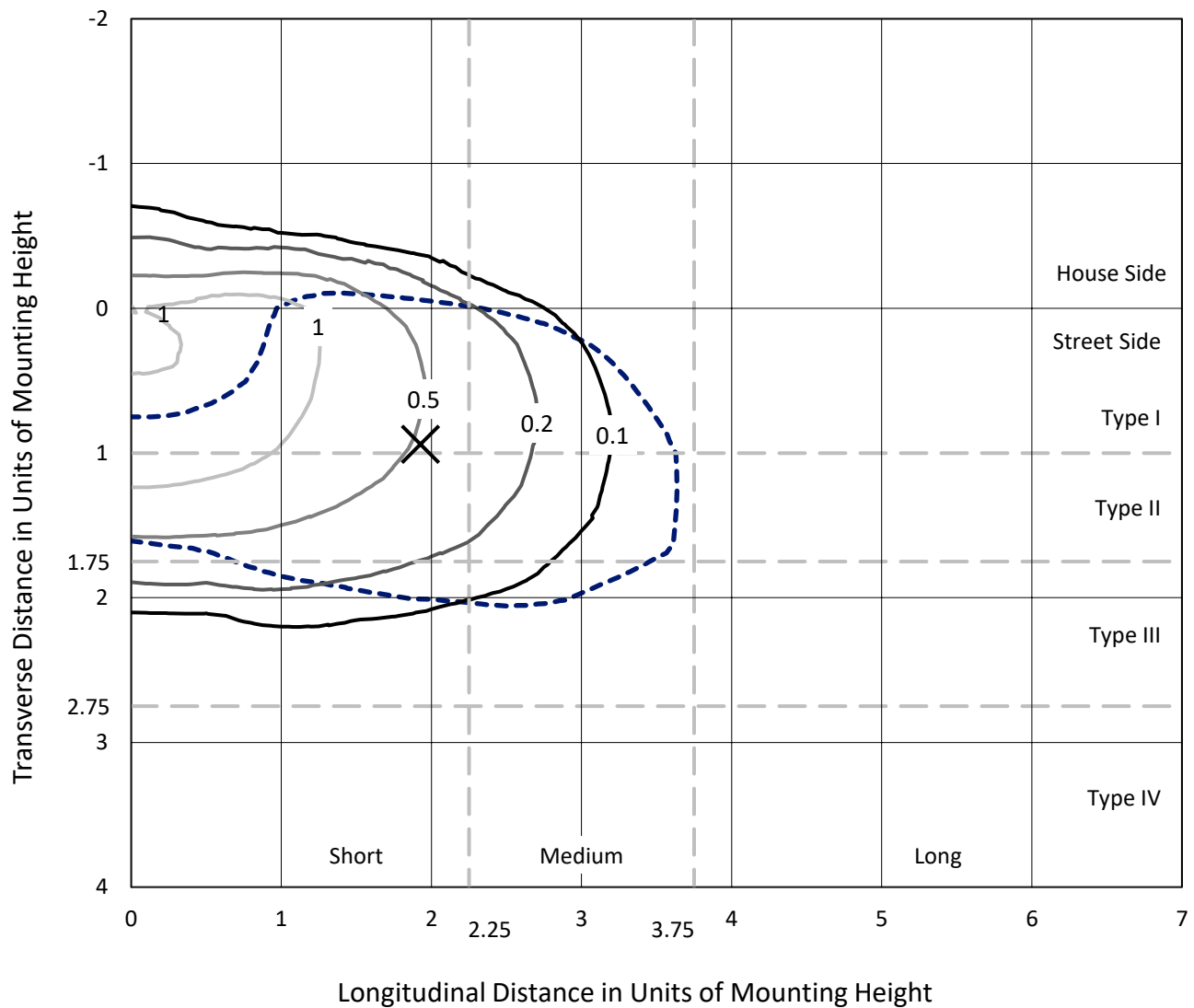


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

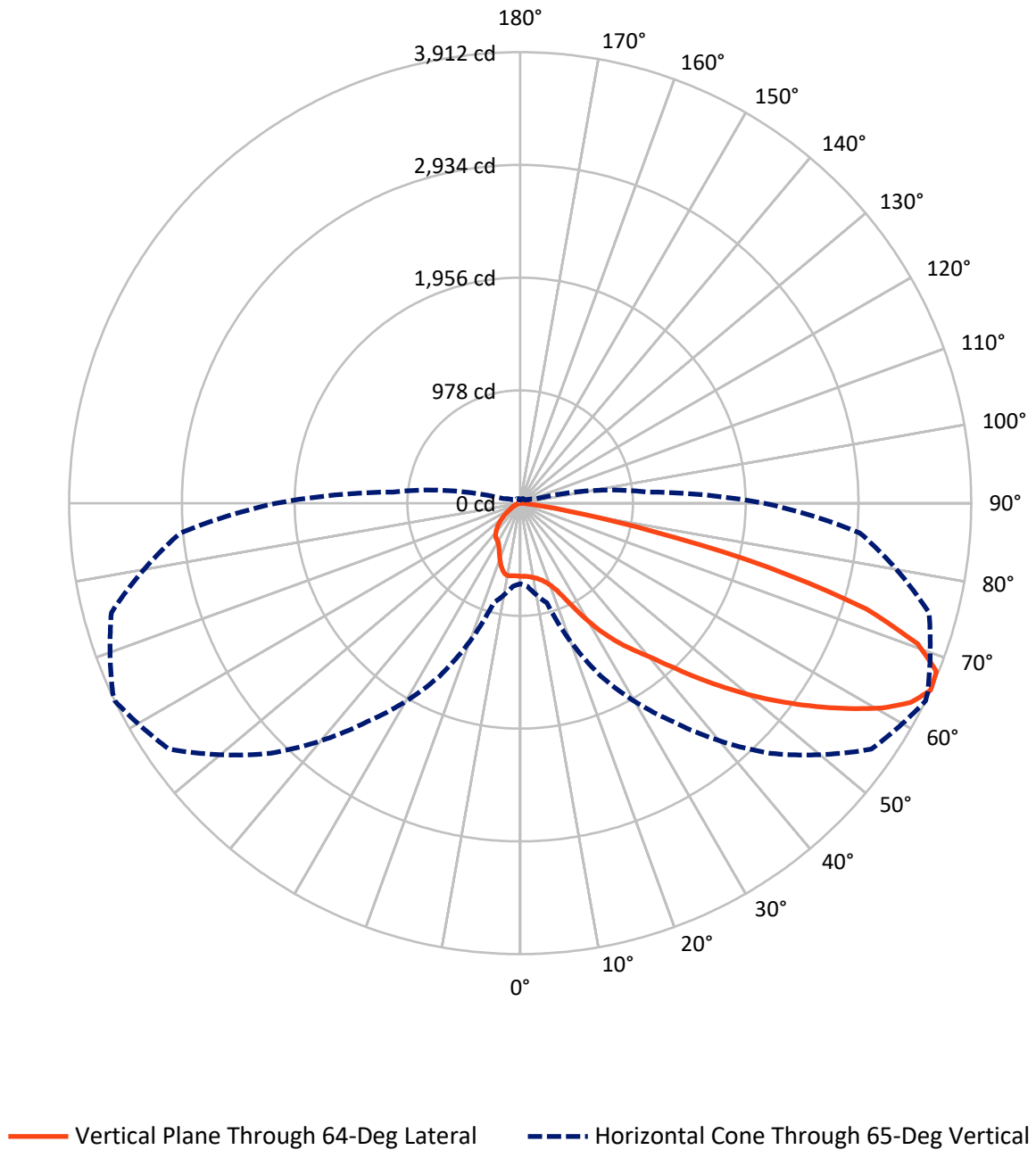


Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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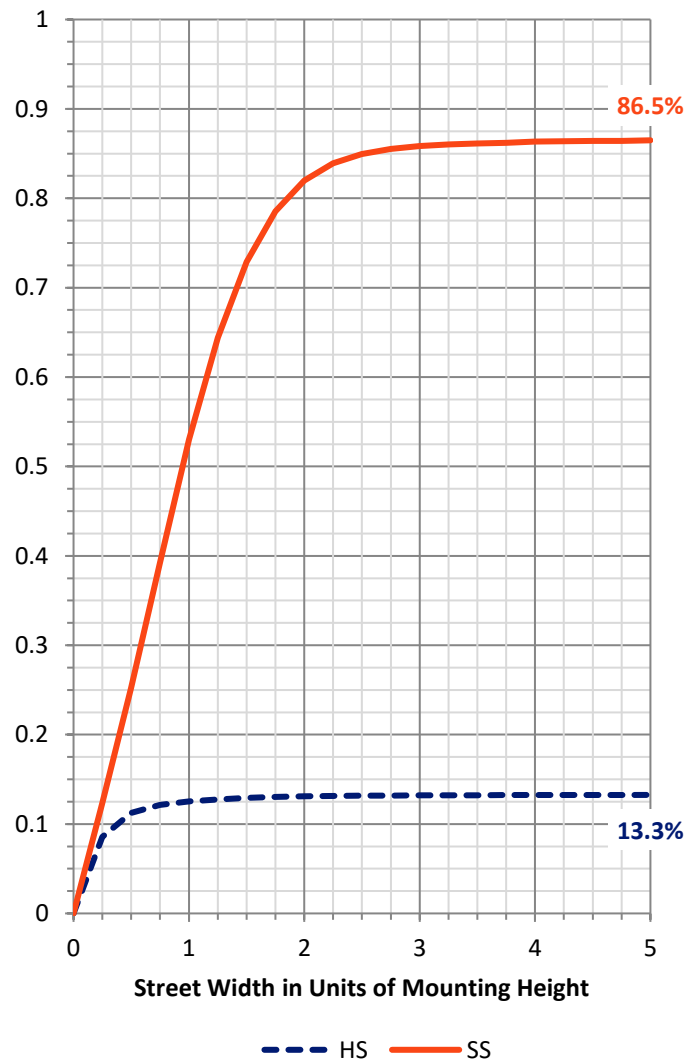
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	728.8	0.0	728.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	4721.2	0.0	4721.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	5450.0	0.0	5450.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.5	1.1
10°-20°	158.6	2.9
20°-30°	300.6	5.5
30°-40°	608.2	11.2
40°-50°	1036.1	19.0
50°-60°	1409.0	25.9
60°-70°	1323.2	24.3
70°-80°	530.1	9.7
80°-90°	25.7	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°	5450.0	100.0
0°-180°	5450.0	100.0

Coefficient of Utilization



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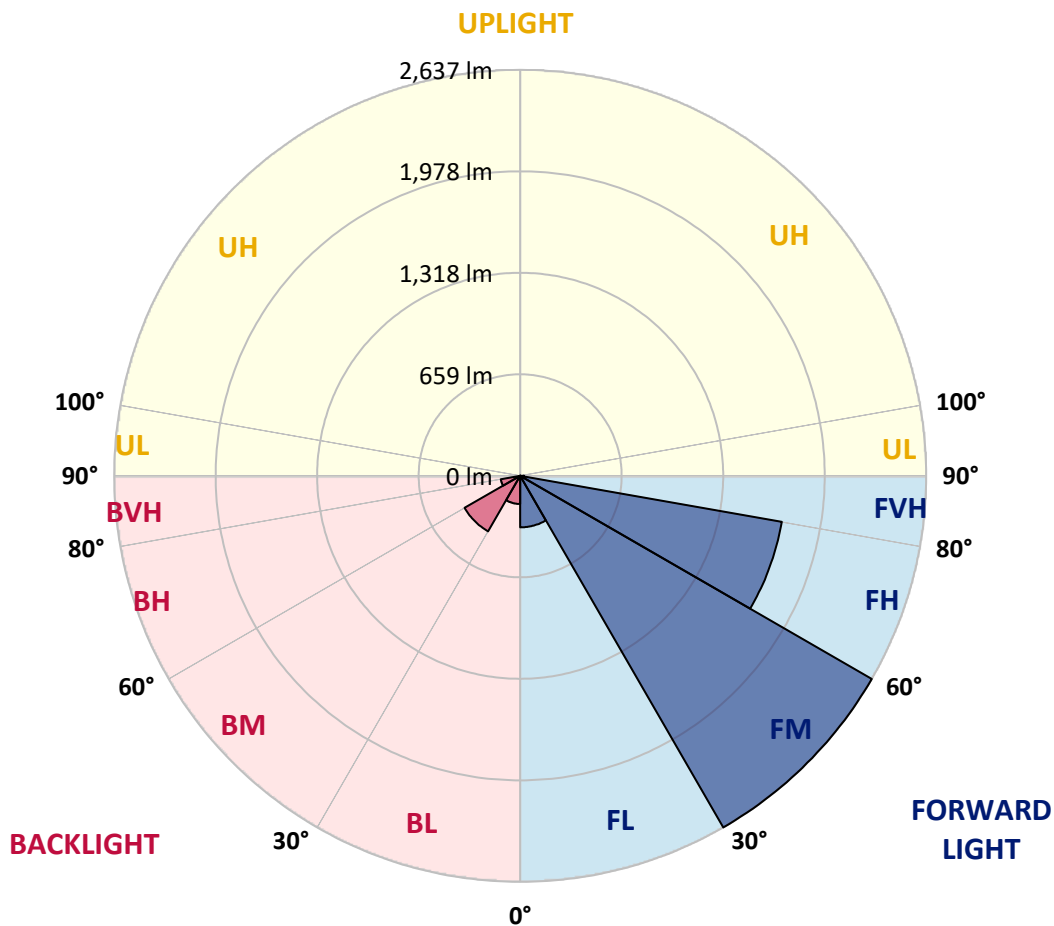
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	334.7	6.1			
FM	(30°-60°)	2636.7	48.4			
FH	(60°-80°)	1725.3	31.7			G1/1800
FVH	(80°-90°)	24.4	0.4			G1/100
BL	(0°-30°)	183.0	3.4	B1/500		
BM	(30°-60°)	416.7	7.6	B1/1000		
BH	(60°-80°)	127.9	2.3	B1/500		G1/500
BVH	(80°-90°)	1.3	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-G1

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	633.9	633.9	633.9	633.9	633.9	633.9	633.9	633.9	633.9	633.9	633.9
2.5°	631.7	636.1	635.0	633.9	633.5	634.3	634.6	634.3	634.3	634.3	634.6
5°	619.6	623.3	623.3	625.9	629.5	633.9	637.2	637.9	638.6	639.7	639.4
7.5°	596.6	599.5	601.7	610.1	619.3	631.0	640.8	645.9	646.7	650.7	652.2
10°	580.9	584.6	588.2	597.0	610.1	627.7	644.5	656.9	658.7	668.2	672.6
12.5°	580.2	583.8	588.6	598.1	613.4	632.1	652.5	670.4	673.7	687.6	696.7
15°	587.9	592.2	596.6	608.3	624.8	647.4	669.3	691.6	694.9	714.6	724.5
17.5°	603.6	609.4	612.7	624.4	641.9	667.1	696.0	721.6	724.5	747.5	759.9
20°	634.6	641.6	642.7	652.2	669.3	696.4	730.7	762.5	766.2	792.5	806.3
22.5°	698.9	708.8	700.0	704.8	720.1	747.2	784.4	824.6	829.7	859.7	872.1
25°	812.2	826.1	803.4	795.4	802.0	830.1	876.9	927.6	933.5	957.6	963.8
27.5°	1034.7	1016.8	982.4	948.8	929.1	945.2	997.8	1060.6	1067.9	1091.3	1084.0
30°	1279.1	1263.4	1217.0	1142.5	1095.7	1093.1	1141.7	1211.9	1220.3	1242.6	1220.3
32.5°	1523.9	1508.9	1458.5	1366.8	1285.7	1245.5	1279.1	1356.9	1361.3	1375.6	1342.7
35°	1764.7	1749.3	1698.9	1605.0	1505.3	1413.9	1407.3	1495.0	1496.5	1511.5	1462.5
37.5°	2006.9	1994.1	1940.4	1848.3	1750.1	1624.0	1563.0	1625.8	1627.7	1642.3	1591.5
40°	2179.7	2185.2	2148.3	2077.0	1992.6	1854.9	1737.6	1765.0	1754.1	1778.6	1748.2
42.5°	2328.0	2339.0	2306.9	2271.0	2222.1	2100.8	1953.9	1949.2	1931.6	1944.8	1913.4
45°	2456.3	2465.4	2436.6	2428.2	2427.1	2341.9	2190.3	2161.8	2137.3	2134.8	2097.1
47.5°	2503.4	2521.0	2533.4	2561.5	2616.3	2580.5	2434.7	2390.5	2363.1	2343.0	2283.5
50°	2521.3	2540.0	2582.3	2664.2	2793.9	2809.2	2678.1	2628.4	2594.8	2558.2	2470.5
52.5°	2497.2	2530.5	2587.4	2725.2	2913.3	2992.6	2911.5	2868.0	2829.7	2770.1	2640.1
55°	2355.1	2388.3	2504.9	2724.5	2972.9	3121.2	3132.2	3112.8	3069.7	2975.8	2777.1
57.5°	2055.5	2104.8	2289.3	2631.7	2971.8	3231.9	3348.5	3362.4	3314.1	3179.7	2884.8
60°	1640.4	1707.3	1932.4	2426.0	2880.1	3291.9	3538.1	3607.5	3556.4	3380.6	2972.2
62.5°	1144.7	1222.1	1435.1	2103.7	2670.4	3248.7	3676.6	3804.8	3766.1	3560.4	3005.8
65°	698.2	723.0	894.8	1655.4	2313.8	3068.3	3719.3	3911.5	3898.7	3670.4	2956.1
67.5°	465.1	485.9	535.2	1135.2	1796.1	2707.6	3617.0	3892.9	3896.5	3652.5	2774.1
70°	280.2	298.1	330.3	660.2	1164.0	2143.2	3300.3	3655.4	3676.6	3413.2	2429.2
72.5°	115.5	127.5	156.7	299.2	602.8	1360.2	2628.0	3138.4	3187.7	2869.9	1864.4
75°	65.4	71.6	92.1	150.2	261.6	633.9	1591.9	2227.9	2300.6	1978.0	1121.6
77.5°	43.5	46.4	59.6	97.2	147.2	216.3	680.3	1160.7	1299.6	1080.4	485.6
80°	29.2	31.8	40.9	65.0	95.7	92.8	216.7	430.0	529.0	371.2	118.4
82.5°	19.7	20.1	29.2	42.7	60.6	44.9	63.9	133.7	168.1	107.4	44.9
85°	11.3	11.0	21.6	24.8	27.0	18.6	19.4	40.2	52.6	45.3	25.6
87.5°	1.5	2.2	8.4	6.6	3.7	4.0	4.0	6.9	10.2	11.0	5.5
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°	633.9	633.9	633.9	633.9	633.9	633.9	633.9	633.9	633.9	633.9	633.9
2.5°	634.6	634.3	633.2	632.1	629.5	628.0	628.8	628.0	627.7	628.0	629.5
5°	639.4	638.3	635.4	631.7	626.6	620.4	616.4	610.5	605.0	601.7	602.5
7.5°	652.2	651.1	647.0	636.8	620.4	594.4	570.7	549.9	534.1	525.0	525.4
10°	672.6	670.8	664.6	641.9	598.8	542.2	495.1	456.0	430.4	418.3	417.2
12.5°	696.7	694.5	683.6	637.2	557.9	469.5	404.4	361.0	337.2	326.6	325.5
15°	725.2	722.3	700.8	614.5	498.3	389.1	329.6	297.0	281.7	272.2	272.6
17.5°	760.7	755.6	713.5	580.5	433.7	327.7	283.5	259.0	245.5	236.4	235.7
20°	806.7	798.3	723.8	540.0	374.1	289.0	252.5	232.0	221.8	213.7	212.3
22.5°	871.0	859.0	736.2	496.2	332.1	262.3	229.4	214.5	206.1	196.9	195.5
25°	950.7	936.4	751.5	455.6	303.2	239.3	212.6	200.2	190.4	179.8	178.7
27.5°	1062.1	1036.5	769.8	422.4	278.4	219.6	197.3	183.4	172.1	163.3	161.5
30°	1186.3	1144.3	785.9	402.3	255.7	201.3	177.2	163.3	152.7	146.5	145.4
32.5°	1304.0	1247.0	796.5	393.5	235.3	180.5	155.3	140.3	132.3	130.4	131.5
35°	1415.0	1339.8	795.4	385.1	217.0	159.7	133.7	118.4	112.2	113.3	113.3
37.5°	1542.9	1438.8	787.7	371.9	202.0	140.7	115.1	101.6	96.1	96.5	97.9
40°	1691.6	1553.1	783.0	347.1	185.6	123.1	99.7	88.8	84.8	83.3	82.9
42.5°	1850.2	1663.8	783.7	319.0	165.1	107.4	89.1	80.0	76.4	75.3	74.9
45°	2009.5	1769.4	784.8	289.7	143.6	95.4	81.5	73.8	71.6	70.1	70.1
47.5°	2159.3	1859.3	764.3	258.3	122.4	86.2	75.3	70.1	68.3	66.5	66.5
50°	2298.8	1919.2	715.0	221.8	105.6	78.9	70.5	66.9	65.0	63.2	63.2
52.5°	2407.3	1928.7	633.5	184.1	93.9	73.4	67.6	64.3	62.1	60.3	59.9
55°	2455.6	1869.2	517.7	149.1	84.8	68.7	64.7	61.4	58.8	57.0	56.6
57.5°	2443.1	1743.8	403.7	119.8	76.0	63.9	61.0	58.8	55.9	53.0	52.6
60°	2382.1	1576.1	304.3	99.7	68.0	58.8	57.0	55.2	51.1	46.8	46.0
62.5°	2276.5	1365.3	217.0	82.6	59.2	53.0	52.2	50.8	44.9	36.9	36.2
65°	2115.0	1109.2	146.1	68.7	50.8	46.4	46.8	44.2	36.5	27.4	26.7
67.5°	1879.0	811.1	93.5	56.3	42.4	38.7	39.1	37.6	31.1	23.4	22.3
70°	1578.3	537.1	61.0	42.7	34.0	30.0	32.2	32.5	26.3	19.0	18.3
72.5°	1157.1	317.1	42.7	31.8	24.8	20.8	26.3	27.0	21.2	14.2	13.5
75°	659.5	150.5	32.2	23.0	15.3	14.6	20.5	20.5	14.6	9.5	8.8
77.5°	276.9	62.8	22.7	15.0	8.8	8.4	13.9	12.8	7.3	4.4	4.4
80°	80.0	28.1	12.1	7.3	3.7	3.3	5.5	4.0	1.8	0.7	0.7
82.5°	31.4	12.4	4.7	2.9	1.5	1.5	0.7	0.0	0.0	0.0	0.0
85°	18.6	5.1	2.2	1.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	1.1	0.7	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)