

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: P945584

Luminaire Tested: **GALN-SB1C-727-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945584
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
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-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5353 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

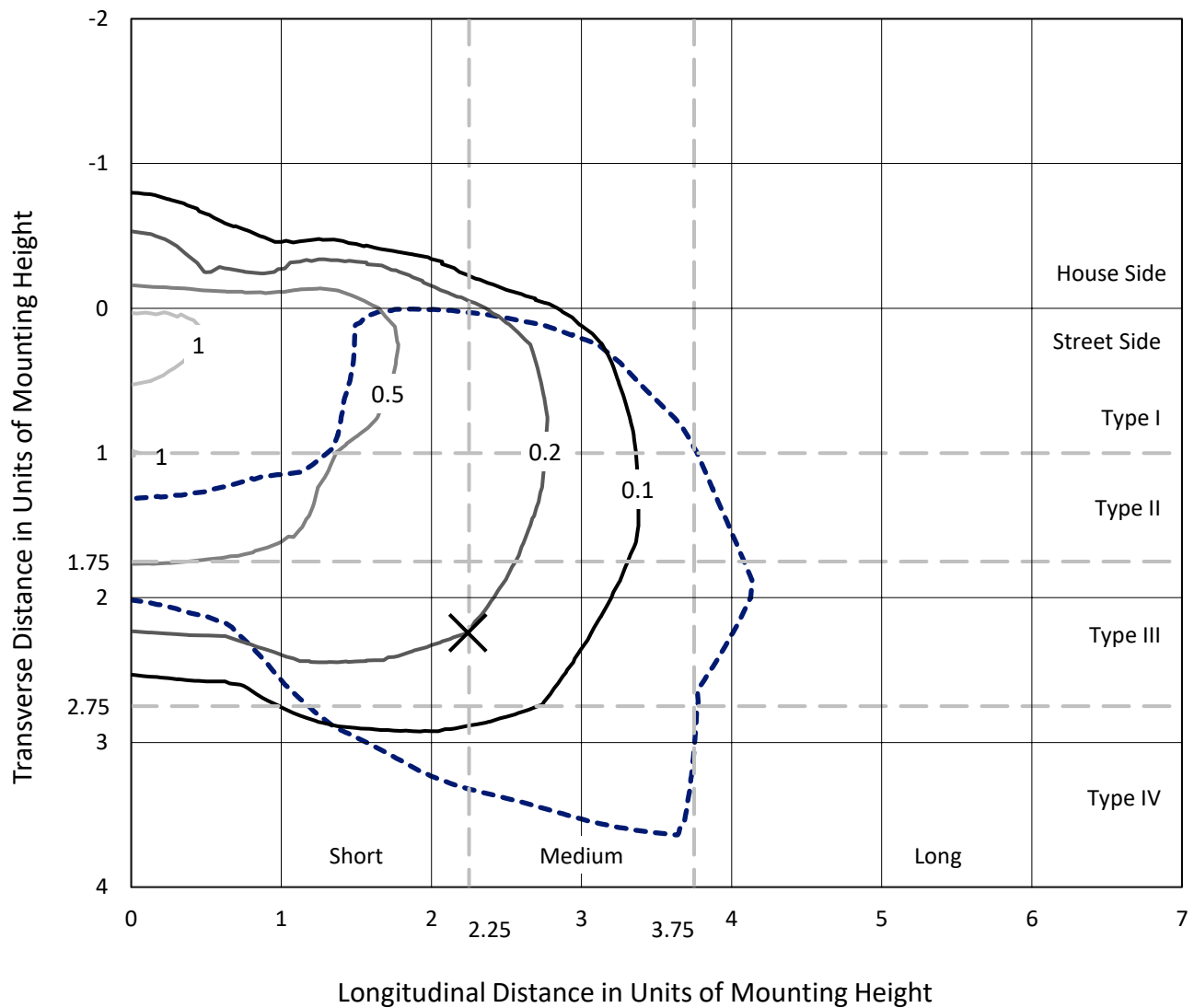


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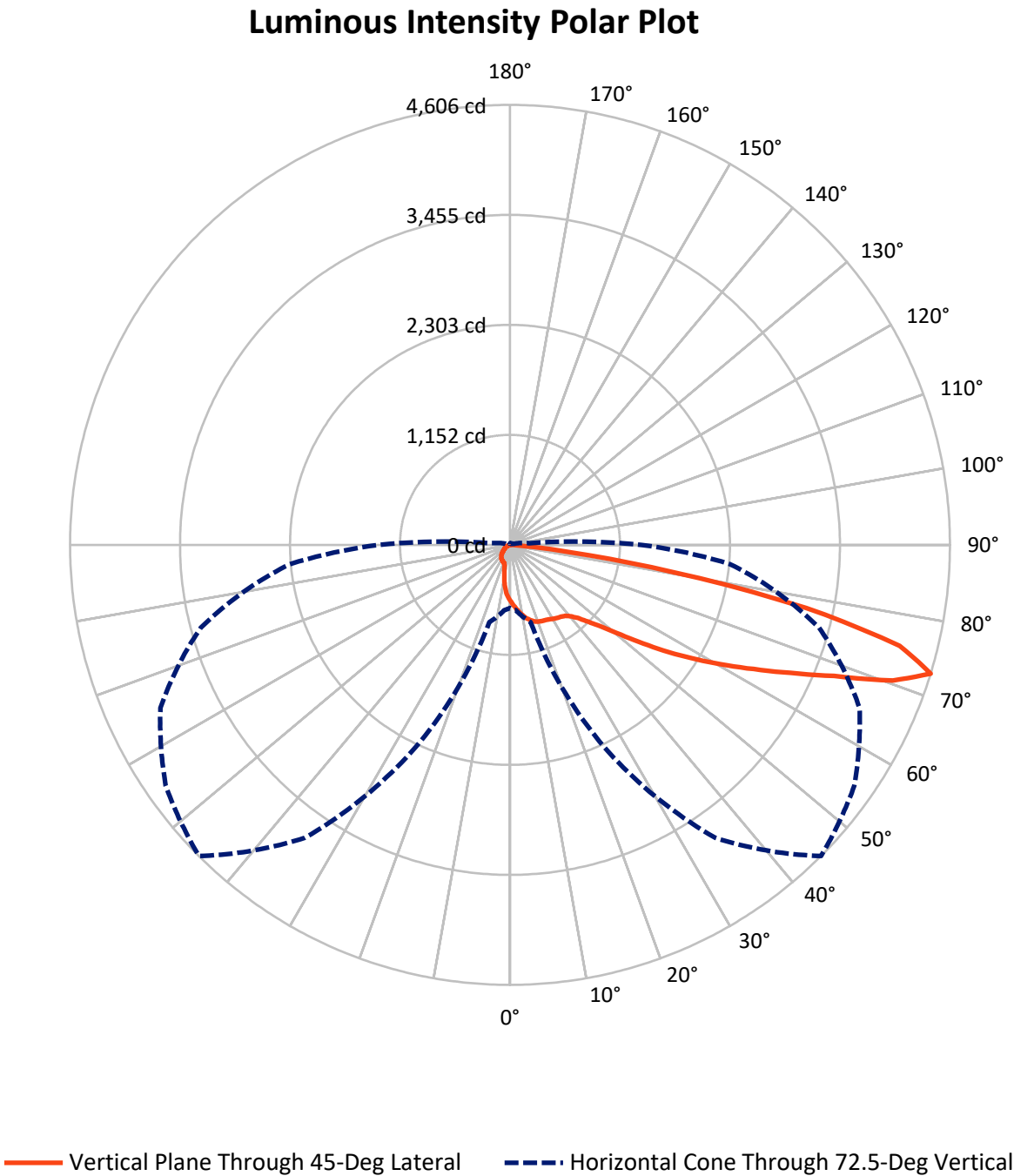
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
Type IV - Short - N/A

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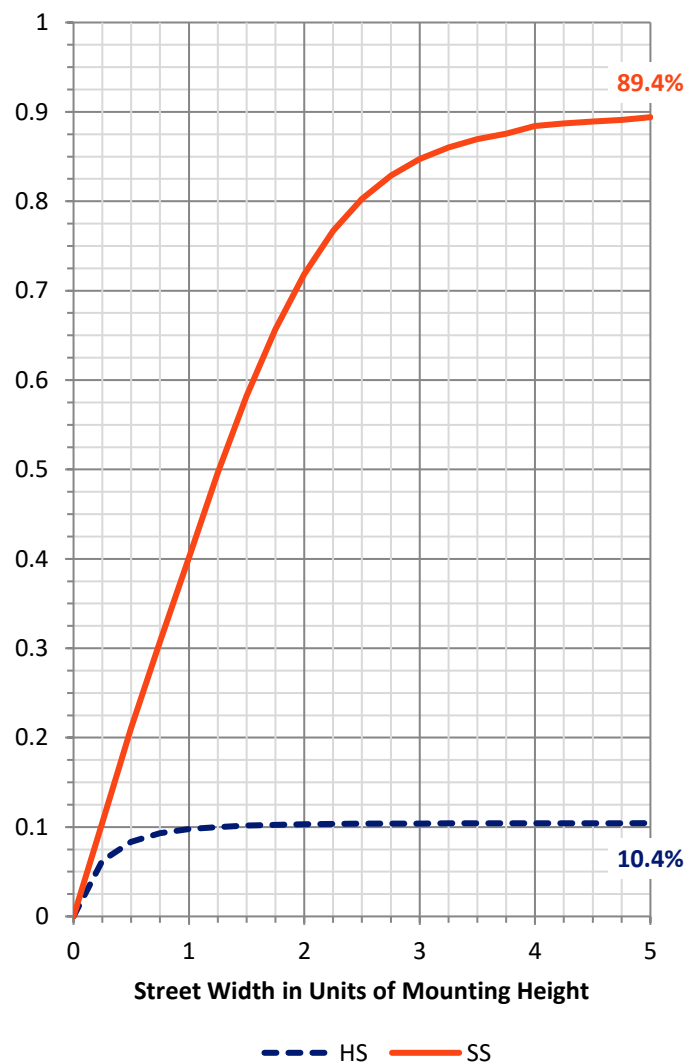
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	562.5	0.0	562.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	4790.6	0.0	4790.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	5353.0	0.0	5353.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	1.0
10°-20°	161.5	3.0
20°-30°	265.2	5.0
30°-40°	376.1	7.0
40°-50°	621.6	11.6
50°-60°	1116.7	20.9
60°-70°	1550.6	29.0
70°-80°	1124.8	21.0
80°-90°	81.3	1.5
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°	5353.0	100.0
0°-180°	5353.0	100.0

Coefficient of Utilization



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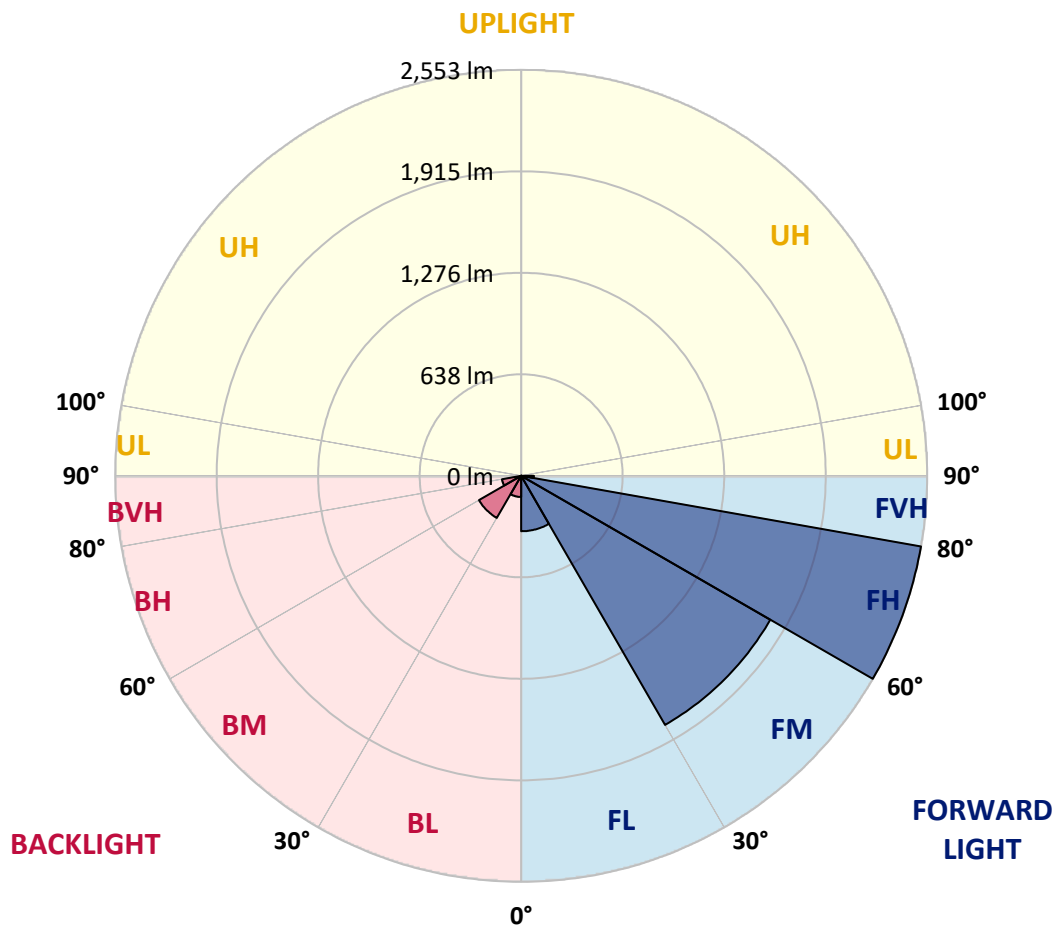
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	348.7	6.5			
FM	(30°-60°)	1808.5	33.8			
FH	(60°-80°)	2552.7	47.7			G2/5000
FVH	(80°-90°)	80.6	1.5			G1/100
BL	(0°-30°)	133.2	2.5	B1/500		
BM	(30°-60°)	305.9	5.7	B1/1000		
BH	(60°-80°)	122.7	2.3	B1/500		G1/500
BVH	(80°-90°)	0.7	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	586.4	586.4	586.4	586.4	586.4	586.4	586.4	586.4	586.4	586.4	586.4
2.5°	640.5	641.6	640.9	636.5	629.2	625.2	623.0	615.7	610.9	602.5	593.7
5°	699.3	703.7	701.2	692.4	678.5	668.6	665.7	650.7	637.2	621.5	603.2
7.5°	761.8	764.0	759.3	747.9	729.3	712.5	709.9	689.1	667.5	643.4	618.6
10°	815.9	818.4	811.1	794.7	773.5	752.7	749.0	726.0	700.4	670.8	639.0
12.5°	861.2	863.8	854.3	834.5	811.1	789.6	785.9	761.8	733.7	700.8	661.3
15°	895.5	900.3	887.5	866.3	841.1	819.5	817.7	794.0	766.6	730.0	688.0
17.5°	915.6	920.4	908.3	882.8	861.2	842.9	840.7	821.0	795.4	760.4	713.9
20°	918.9	923.3	910.5	888.2	870.3	855.7	854.6	840.4	821.7	788.1	742.1
22.5°	909.1	914.5	902.9	884.9	872.5	864.9	863.4	855.4	844.8	816.3	768.4
25°	898.8	903.2	894.4	878.7	872.2	871.4	872.5	871.1	868.9	844.8	799.1
27.5°	898.1	902.9	893.0	878.0	874.4	882.0	883.1	890.1	891.9	870.7	828.7
30°	904.3	907.6	898.1	882.4	880.6	898.1	898.5	910.9	913.8	892.6	857.9
32.5°	917.8	921.5	912.0	889.0	886.4	910.9	912.0	928.4	933.2	916.0	888.6
35°	949.6	954.0	943.0	907.2	898.1	922.9	926.2	945.6	955.1	940.8	920.4
37.5°	1028.9	1016.1	1001.1	944.1	924.8	941.9	947.4	970.1	986.9	970.4	958.4
40°	1225.8	1185.7	1138.9	1007.0	971.5	982.5	986.9	1009.5	1032.6	1016.5	1010.6
42.5°	1521.4	1473.9	1398.7	1151.7	1042.1	1047.5	1050.8	1070.6	1103.1	1090.3	1091.8
45°	1784.9	1767.7	1691.0	1398.7	1174.0	1146.9	1150.9	1161.2	1209.0	1204.3	1213.8
47.5°	1987.3	1977.4	1918.2	1682.2	1396.8	1268.6	1279.9	1284.7	1353.7	1370.5	1396.1
50°	2142.9	2139.3	2086.3	1934.3	1688.0	1448.0	1452.0	1441.8	1545.2	1586.8	1635.4
52.5°	2289.8	2302.3	2263.2	2168.5	1999.0	1682.9	1682.2	1634.0	1773.5	1836.4	1919.3
55°	2422.5	2426.8	2430.9	2407.5	2311.7	1950.4	1943.4	1864.5	2038.4	2103.5	2193.4
57.5°	2547.1	2548.9	2584.7	2632.6	2637.3	2237.6	2224.8	2130.2	2327.8	2374.2	2429.4
60°	2630.7	2639.1	2714.8	2847.8	2905.9	2533.9	2527.0	2430.5	2622.3	2643.9	2633.6
62.5°	2510.2	2561.3	2752.0	3015.8	3159.4	2862.4	2859.1	2768.5	2932.2	2914.6	2826.9
65°	2031.9	2118.5	2453.9	3129.5	3408.3	3229.2	3234.0	3137.5	3250.4	3193.4	2984.0
67.5°	1421.3	1512.7	1909.5	3138.6	3686.3	3660.0	3687.4	3536.1	3588.4	3460.5	3021.3
70°	982.9	1030.0	1288.3	2942.0	3903.0	4253.4	4252.6	4025.7	3924.5	3582.2	2831.3
72.5°	661.0	685.5	836.7	2334.0	3743.7	4606.0	4584.8	4399.9	4037.8	3350.2	2313.2
75°	278.8	296.7	387.3	1311.7	2961.8	4213.9	4156.5	3888.4	3587.7	2638.0	1443.2
77.5°	88.4	96.1	152.7	469.5	1631.4	3167.5	3106.8	2428.3	2404.6	1323.4	527.6
80°	42.0	49.0	85.9	188.5	642.0	1722.8	1714.4	1101.6	1034.4	357.3	106.0
82.5°	18.3	21.6	47.5	100.8	287.2	614.6	627.0	374.9	310.2	135.6	32.5
85°	5.8	7.7	21.9	46.4	121.3	152.7	150.9	89.2	125.0	73.8	11.3
87.5°	0.0	0.0	7.3	10.6	12.4	8.8	9.9	7.7	34.7	20.5	4.0
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°	586.4	586.4	586.4	586.4	586.4	586.4	586.4	586.4	586.4	586.4	586.4
2.5°	589.4	583.5	573.3	563.8	555.4	547.0	541.9	534.5	533.8	533.8	535.6
5°	593.4	583.9	565.6	546.2	524.0	502.8	481.6	461.1	454.5	449.8	452.0
7.5°	605.1	590.1	561.2	524.3	481.9	435.5	403.0	367.9	354.4	347.1	348.2
10°	621.9	601.4	557.6	492.9	424.2	361.0	314.6	276.6	262.0	255.8	255.8
12.5°	640.5	615.3	551.0	453.8	361.0	285.4	240.1	222.5	220.3	220.3	220.3
15°	662.8	632.1	539.7	407.8	294.9	225.8	209.7	210.5	212.7	214.1	214.1
17.5°	685.8	650.0	521.8	356.2	236.4	203.2	203.5	204.6	206.4	207.9	207.9
20°	710.7	667.9	498.0	301.4	202.8	196.6	197.7	198.8	200.2	201.0	201.3
22.5°	737.3	684.7	469.9	247.7	191.5	191.1	191.5	192.6	194.4	194.4	195.1
25°	765.8	703.4	437.7	208.6	185.6	185.6	186.3	187.1	188.5	188.5	188.9
27.5°	795.1	720.5	403.7	188.2	180.5	180.1	180.1	181.2	182.0	182.3	182.7
30°	827.2	740.6	369.8	183.8	176.5	174.7	173.6	174.3	175.0	175.4	176.1
32.5°	860.1	760.0	339.4	185.6	172.5	169.2	165.5	164.8	164.8	166.2	167.3
35°	896.6	781.2	316.1	191.8	170.3	161.1	155.3	152.0	152.4	154.6	155.7
37.5°	940.5	806.8	298.9	197.3	168.8	152.0	142.5	138.5	135.9	138.5	137.7
40°	997.8	844.4	286.5	201.7	167.0	141.4	128.6	122.0	117.3	118.7	118.0
42.5°	1082.3	903.6	281.7	202.1	163.0	129.0	114.4	105.6	98.7	99.0	97.6
45°	1200.6	997.1	306.2	197.3	154.2	115.5	99.4	87.7	83.3	82.2	80.7
47.5°	1362.9	1133.4	362.8	187.4	141.4	102.3	84.8	74.9	71.6	69.8	68.7
50°	1580.3	1308.4	425.7	176.5	128.6	89.9	72.7	66.5	64.3	62.5	62.1
52.5°	1832.4	1486.0	477.2	165.5	115.8	78.9	65.0	61.4	59.6	58.1	57.7
55°	2063.7	1608.4	474.3	153.8	103.4	70.2	59.6	57.4	55.2	53.7	53.0
57.5°	2207.6	1625.6	391.0	141.0	89.2	63.2	54.4	53.0	50.4	48.6	48.2
60°	2273.8	1527.6	274.0	124.2	74.9	56.6	49.0	48.2	44.9	42.4	41.7
62.5°	2285.8	1345.7	182.7	103.4	62.5	50.4	43.5	42.4	38.0	33.6	31.4
65°	2236.8	1085.5	126.4	80.7	53.3	43.8	37.3	35.1	30.3	25.9	24.5
67.5°	2081.9	762.2	88.1	58.1	45.3	34.7	29.6	28.9	25.2	21.6	20.5
70°	1798.0	434.4	58.8	43.5	35.8	23.7	23.4	24.1	20.5	17.5	16.1
72.5°	1378.6	198.8	36.5	31.8	24.5	16.1	18.6	19.0	15.7	13.2	11.7
75°	811.5	85.1	23.0	20.5	12.4	10.6	13.5	13.9	10.6	8.4	7.3
77.5°	276.2	32.2	14.6	12.1	6.2	5.8	8.8	8.8	5.8	3.3	2.6
80°	62.8	12.1	7.3	4.7	2.9	2.6	2.9	2.6	1.5	0.4	0.0
82.5°	17.9	4.7	2.9	1.8	1.1	1.1	0.4	0.0	0.0	0.0	0.0
85°	5.1	2.2	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	0.4	0.0	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)