

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: P945227

Luminaire Tested: **GALN-SB1B-727-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945227
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-SB1B-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 450mA 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: 4025 lumens
Efficiency: N/A
Efficacy: 101.1 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): 39.8
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



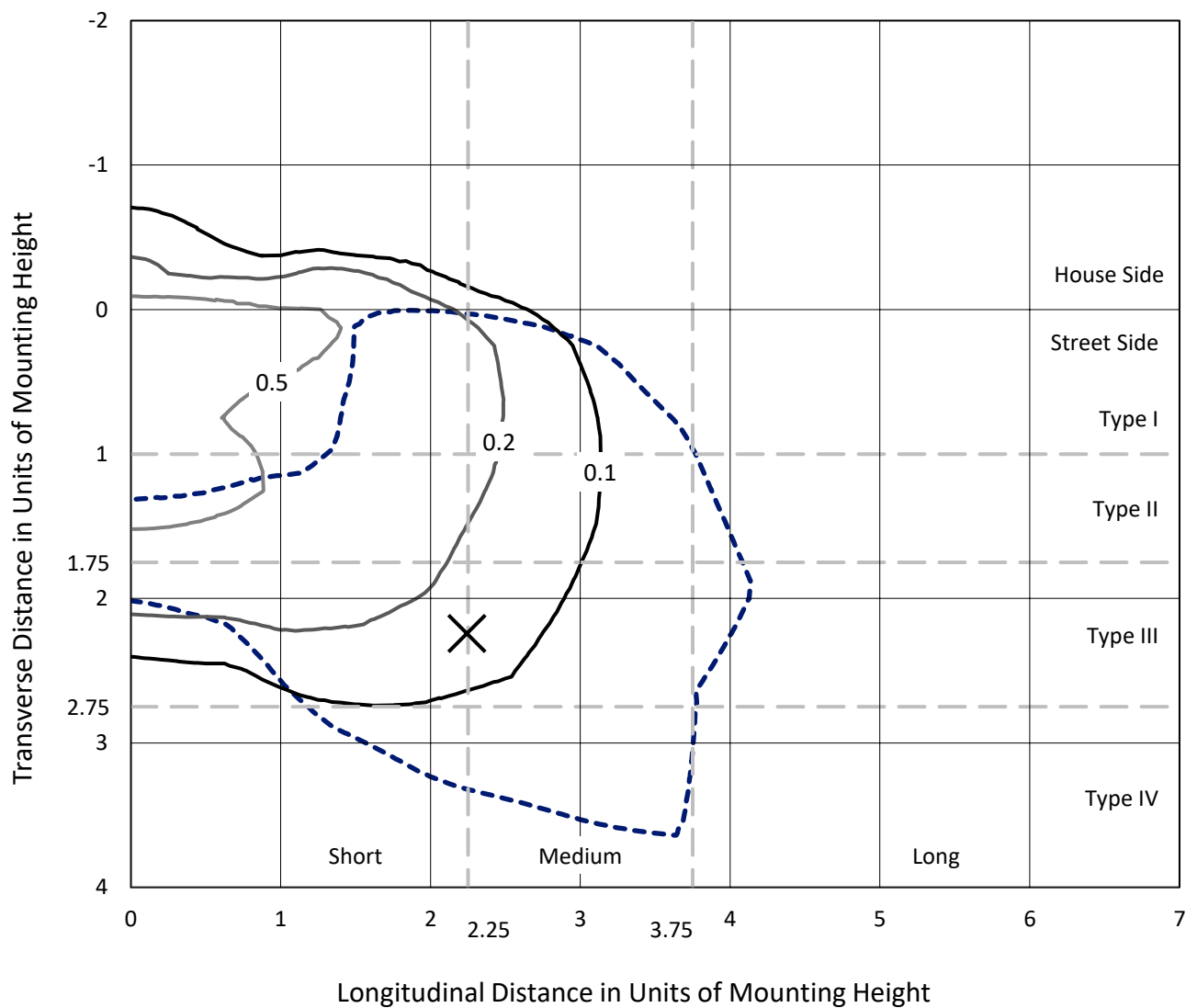
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

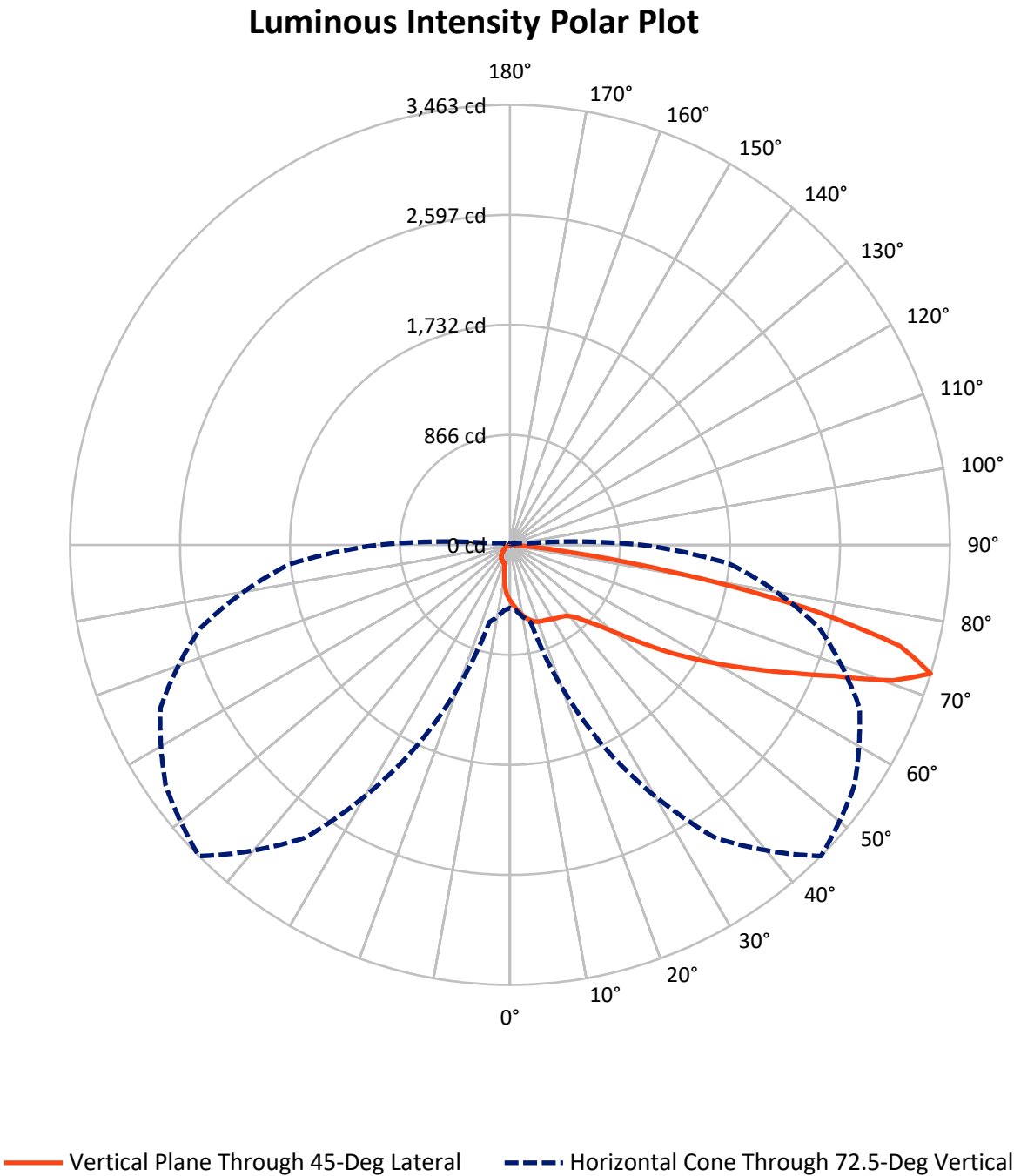
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc

Type IV - Short - N/A

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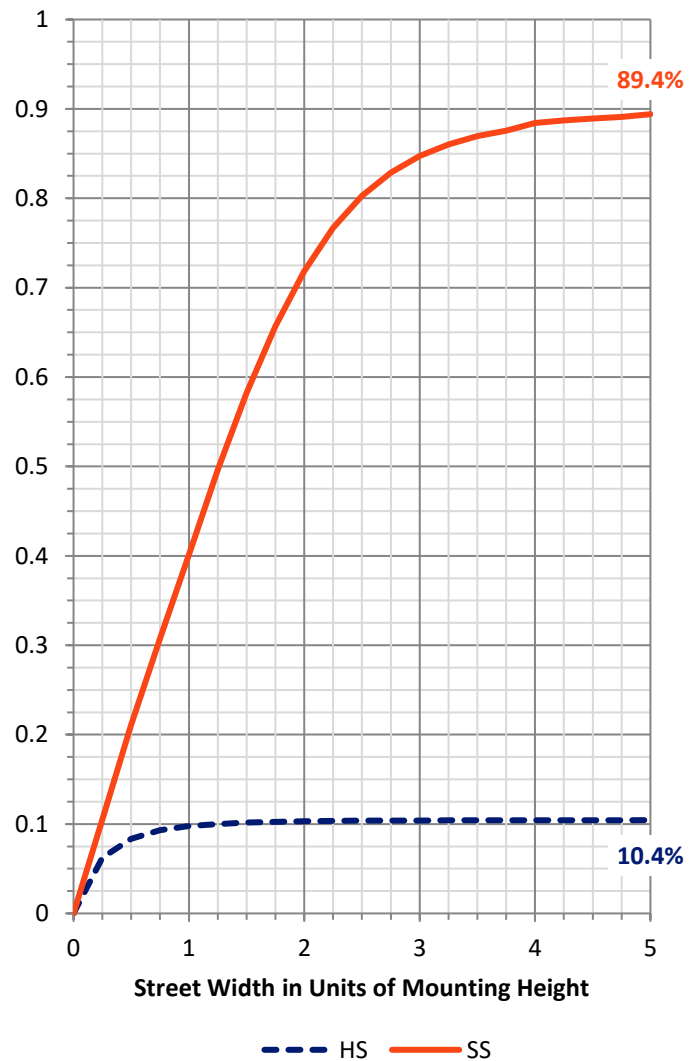
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	422.9	0.0	422.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	3602.1	0.0	3602.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	4025.0	0.0	4025.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.5	1.0
10°-20°	121.4	3.0
20°-30°	199.4	5.0
30°-40°	282.8	7.0
40°-50°	467.4	11.6
50°-60°	839.7	20.9
60°-70°	1165.9	29.0
70°-80°	845.7	21.0
80°-90°	61.1	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°	4025.0	100.0
0°-180°	4025.0	100.0

Coefficient of Utilization



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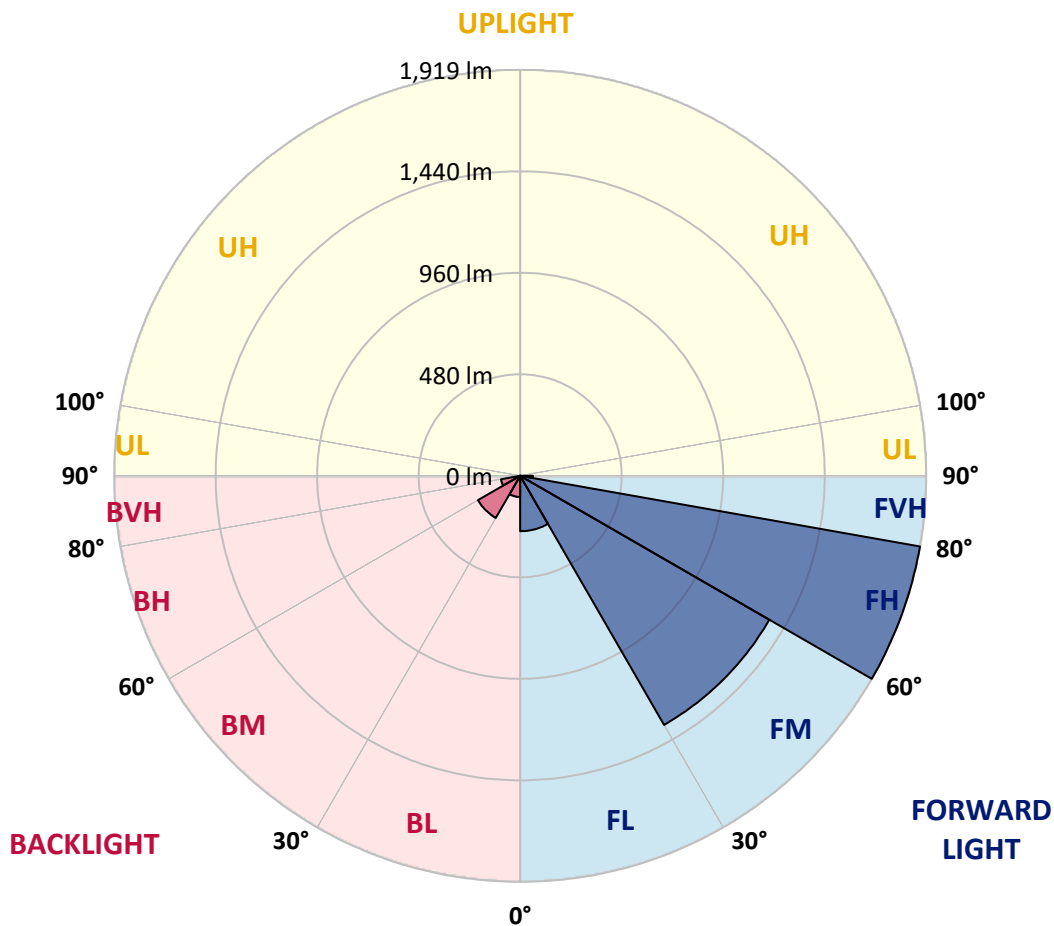
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	262.2	6.5			
FM	(30°-60°)	1359.9	33.8			
FH	(60°-80°)	1919.4	47.7			G2/5000
FVH	(80°-90°)	60.6	1.5			G1/100
BL	(0°-30°)	100.2	2.5	B0/110		
BM	(30°-60°)	230.0	5.7	B1/1000		
BH	(60°-80°)	92.2	2.3	B0/110		G0/110
BVH	(80°-90°)	0.5	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°	440.9	440.9	440.9	440.9	440.9	440.9	440.9	440.9	440.9	440.9	440.9
2.5°	481.6	482.4	481.9	478.6	473.1	470.1	468.4	462.9	459.4	453.0	446.4
5°	525.8	529.1	527.2	520.6	510.2	502.8	500.6	489.3	479.1	467.3	453.6
7.5°	572.8	574.5	570.9	562.4	548.4	535.7	533.8	518.1	501.9	483.8	465.1
10°	613.5	615.4	609.9	597.5	581.6	566.0	563.2	545.9	526.7	504.4	480.5
12.5°	647.5	649.5	642.3	627.5	609.9	593.7	591.0	572.8	551.7	526.9	497.3
15°	673.4	676.9	667.3	651.4	632.4	616.2	614.9	597.0	576.4	548.9	517.3
17.5°	688.5	692.1	683.0	663.8	647.5	633.8	632.2	617.3	598.1	571.7	536.8
20°	691.0	694.3	684.6	667.9	654.4	643.4	642.6	631.9	617.9	592.6	558.0
22.5°	683.5	687.7	678.9	665.4	656.1	650.3	649.2	643.2	635.2	613.8	577.8
25°	675.8	679.1	672.5	660.7	655.8	655.2	656.1	655.0	653.3	635.2	600.8
27.5°	675.3	678.9	671.4	660.2	657.4	663.2	664.0	669.3	670.6	654.7	623.1
30°	680.0	682.4	675.3	663.5	662.1	675.3	675.6	684.9	687.1	671.2	645.1
32.5°	690.1	692.9	685.7	668.4	666.5	684.9	685.7	698.1	701.7	688.8	668.2
35°	714.0	717.3	709.1	682.2	675.3	694.0	696.4	711.0	718.2	707.4	692.1
37.5°	773.6	764.0	752.8	709.9	695.4	708.3	712.4	729.4	742.1	729.7	720.6
40°	921.7	891.5	856.3	757.2	730.5	738.8	742.1	759.1	776.4	764.3	759.9
42.5°	1144.0	1108.3	1051.7	866.0	783.5	787.7	790.1	805.0	829.4	819.8	820.9
45°	1342.1	1329.2	1271.5	1051.7	882.7	862.4	865.4	873.1	909.1	905.5	912.7
47.5°	1494.3	1486.9	1442.4	1264.9	1050.3	953.9	962.4	966.0	1017.9	1030.5	1049.8
50°	1611.3	1608.6	1568.7	1454.4	1269.3	1088.8	1091.8	1084.1	1161.8	1193.2	1229.7
52.5°	1721.8	1731.1	1701.7	1630.5	1503.1	1265.4	1264.9	1228.6	1333.6	1380.8	1443.2
55°	1821.5	1824.8	1827.8	1810.2	1738.2	1466.5	1461.3	1402.0	1532.7	1581.6	1649.2
57.5°	1915.2	1916.5	1943.5	1979.5	1983.0	1682.5	1672.9	1601.7	1750.3	1785.2	1826.7
60°	1978.1	1984.4	2041.3	2141.3	2185.0	1905.3	1900.1	1827.5	1971.8	1988.0	1980.3
62.5°	1887.4	1925.9	2069.3	2267.7	2375.6	2152.3	2149.8	2081.7	2204.7	2191.5	2125.6
65°	1527.8	1592.9	1845.1	2353.1	2562.7	2428.1	2431.7	2359.1	2444.0	2401.2	2243.7
67.5°	1068.7	1137.4	1435.8	2360.0	2771.8	2752.0	2772.6	2658.9	2698.2	2602.0	2271.8
70°	739.0	774.5	968.7	2212.2	2934.7	3198.2	3197.6	3027.0	2950.9	2693.5	2128.9
72.5°	497.0	515.4	629.1	1755.0	2814.9	3463.3	3447.4	3308.3	3036.1	2519.0	1739.3
75°	209.6	223.1	291.2	986.3	2227.0	3168.5	3125.4	2923.7	2697.6	1983.6	1085.2
77.5°	66.5	72.3	114.8	353.0	1226.7	2381.7	2336.1	1825.9	1808.0	995.1	396.7
80°	31.6	36.8	64.6	141.8	482.7	1295.4	1289.0	828.3	777.8	268.7	79.7
82.5°	13.7	16.2	35.7	75.8	215.9	462.1	471.4	281.9	233.2	101.9	24.5
85°	4.4	5.8	16.5	34.9	91.2	114.8	113.5	67.0	94.0	55.5	8.5
87.5°	0.0	0.0	5.5	8.0	9.3	6.6	7.4	5.8	26.1	15.4	3.0
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°	440.9	440.9	440.9	440.9	440.9	440.9	440.9	440.9	440.9	440.9	440.9
2.5°	443.1	438.7	431.1	423.9	417.6	411.3	407.4	401.9	401.4	401.4	402.8
5°	446.2	439.0	425.3	410.7	394.0	378.0	362.1	346.7	341.8	338.2	339.8
7.5°	455.0	443.7	422.0	394.2	362.4	327.5	303.0	276.7	266.5	261.0	261.8
10°	467.6	452.2	419.2	370.6	319.0	271.4	236.5	208.0	197.0	192.3	192.3
12.5°	481.6	462.7	414.3	341.2	271.4	214.6	180.5	167.3	165.7	165.7	165.7
15°	498.4	475.3	405.8	306.6	221.7	169.8	157.7	158.2	159.9	161.0	161.0
17.5°	515.7	488.8	392.3	267.9	177.8	152.8	153.0	153.9	155.2	156.3	156.3
20°	534.4	502.2	374.5	226.7	152.5	147.8	148.6	149.5	150.6	151.1	151.4
22.5°	554.4	514.9	353.3	186.3	144.0	143.7	144.0	144.8	146.2	146.2	146.7
25°	575.8	528.9	329.1	156.9	139.6	139.6	140.1	140.7	141.8	141.8	142.0
27.5°	597.8	541.8	303.6	141.5	135.7	135.4	135.4	136.3	136.8	137.1	137.4
30°	622.0	556.9	278.0	138.2	132.7	131.3	130.5	131.0	131.6	131.9	132.4
32.5°	646.7	571.4	255.2	139.6	129.7	127.2	124.5	123.9	123.9	125.0	125.8
35°	674.2	587.4	237.6	144.2	128.0	121.2	116.8	114.3	114.6	116.2	117.0
37.5°	707.2	606.6	224.7	148.4	126.9	114.3	107.1	104.1	102.2	104.1	103.6
40°	750.3	634.9	215.4	151.7	125.6	106.3	96.7	91.8	88.2	89.3	88.7
42.5°	813.8	679.4	211.8	151.9	122.5	97.0	86.0	79.4	74.2	74.5	73.4
45°	902.8	749.7	230.2	148.4	115.9	86.8	74.7	65.9	62.6	61.8	60.7
47.5°	1024.8	852.2	272.8	140.9	106.3	76.9	63.7	56.3	53.8	52.5	51.6
50°	1188.2	983.8	320.1	132.7	96.7	67.6	54.7	50.0	48.4	47.0	46.7
52.5°	1377.8	1117.3	358.8	124.5	87.1	59.3	48.9	46.2	44.8	43.7	43.4
55°	1551.7	1209.4	356.6	115.7	77.7	52.7	44.8	43.1	41.5	40.4	39.8
57.5°	1659.9	1222.3	294.0	106.0	67.0	47.5	40.9	39.8	37.9	36.5	36.3
60°	1709.7	1148.7	206.1	93.4	56.3	42.6	36.8	36.3	33.8	31.9	31.3
62.5°	1718.7	1011.8	137.4	77.7	47.0	37.9	32.7	31.9	28.6	25.3	23.6
65°	1681.9	816.2	95.1	60.7	40.1	33.0	28.0	26.4	22.8	19.5	18.4
67.5°	1565.4	573.1	66.2	43.7	34.1	26.1	22.3	21.7	19.0	16.2	15.4
70°	1352.0	326.7	44.2	32.7	26.9	17.9	17.6	18.1	15.4	13.2	12.1
72.5°	1036.6	149.5	27.5	23.9	18.4	12.1	14.0	14.3	11.8	9.9	8.8
75°	610.2	64.0	17.3	15.4	9.3	8.0	10.2	10.4	8.0	6.3	5.5
77.5°	207.7	24.2	11.0	9.1	4.7	4.4	6.6	6.6	4.4	2.5	1.9
80°	47.3	9.1	5.5	3.6	2.2	1.9	2.2	1.9	1.1	0.3	0.0
82.5°	13.5	3.6	2.2	1.4	0.8	0.8	0.3	0.0	0.0	0.0	0.0
85°	3.8	1.6	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	0.3	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)