

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: P944866

Luminaire Tested: **GALN-SB1A-727-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944866
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-727-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3181 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 30.9
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

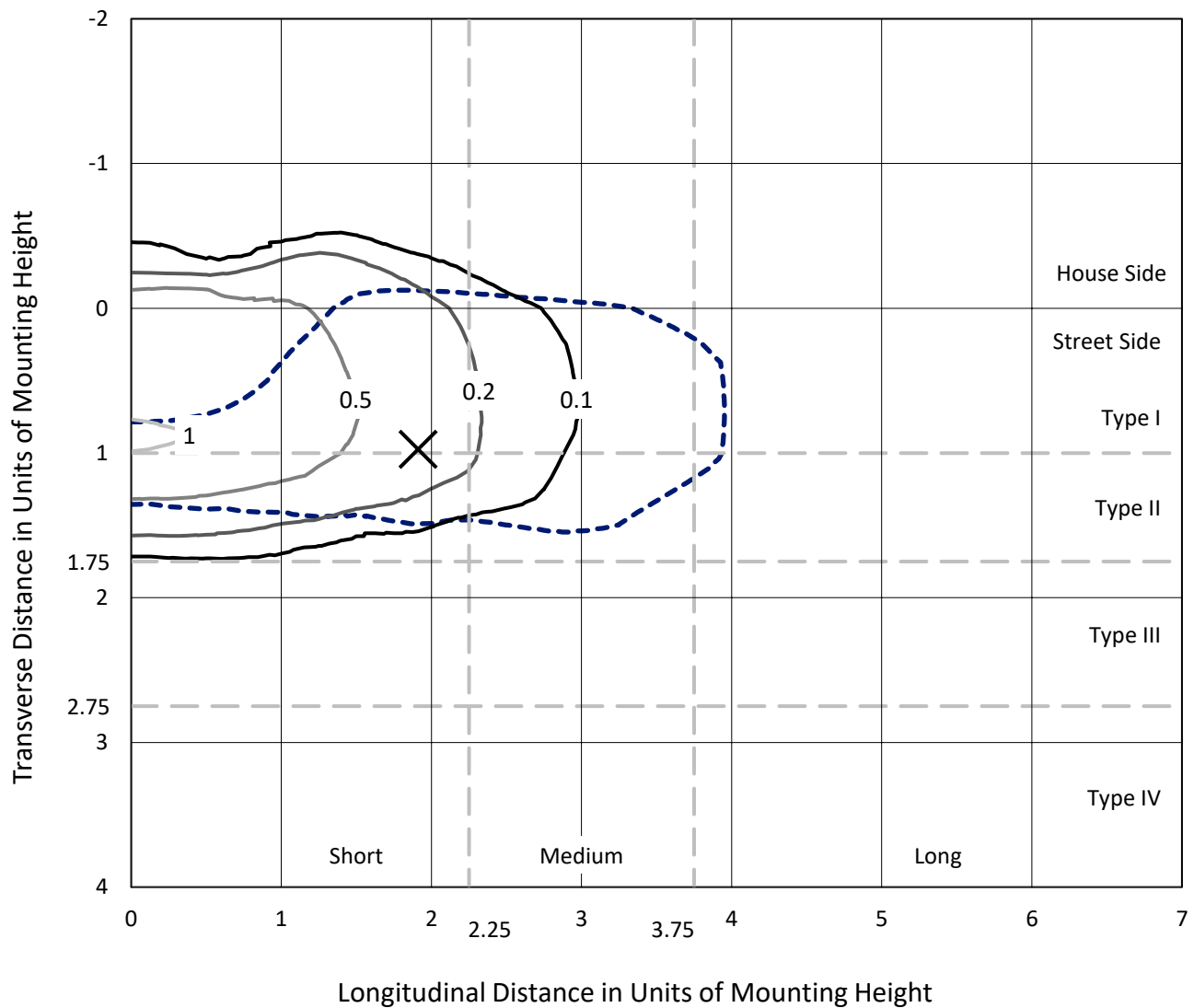


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Iso-Footcandle Lines of Horizontal Illumination

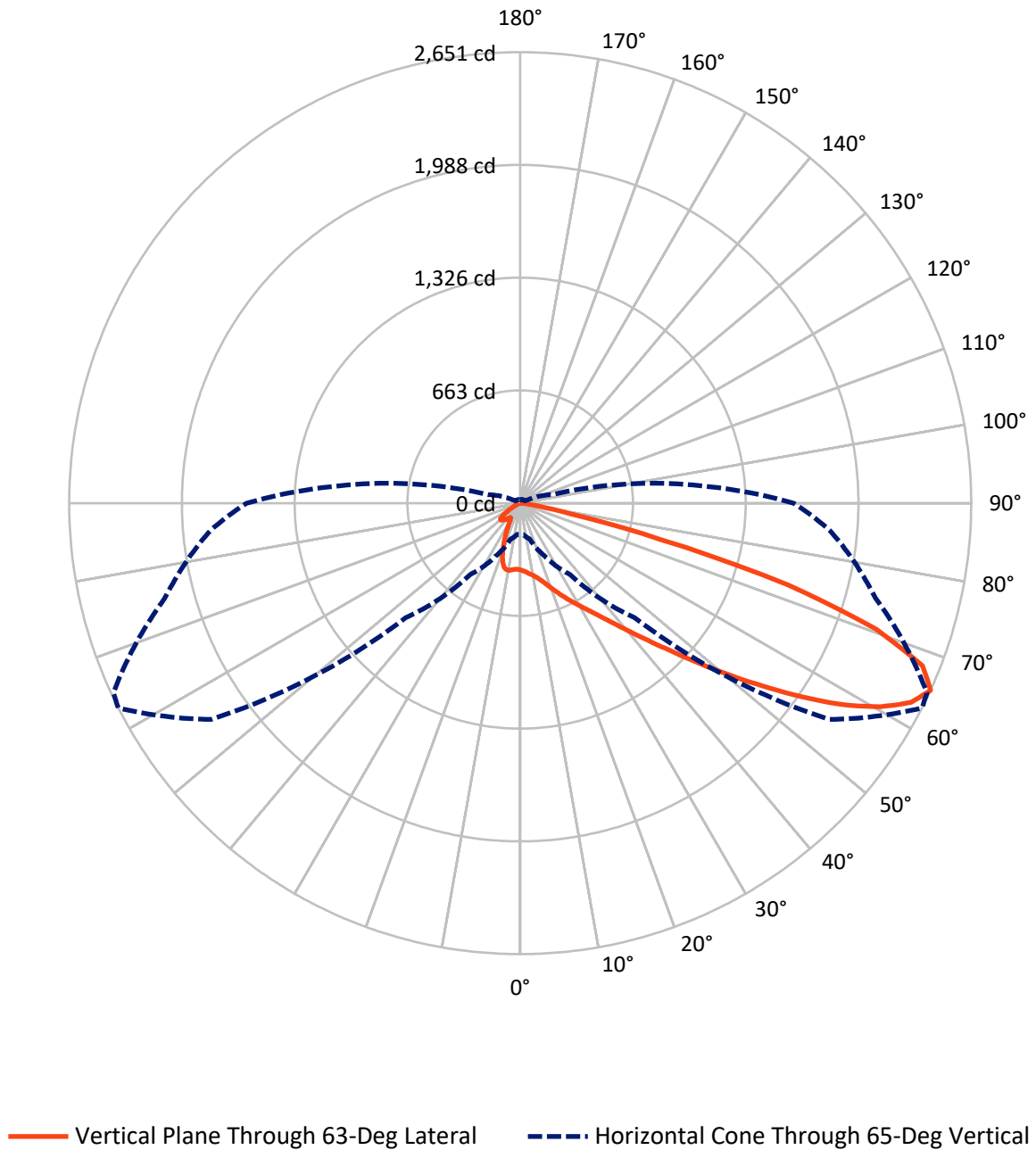
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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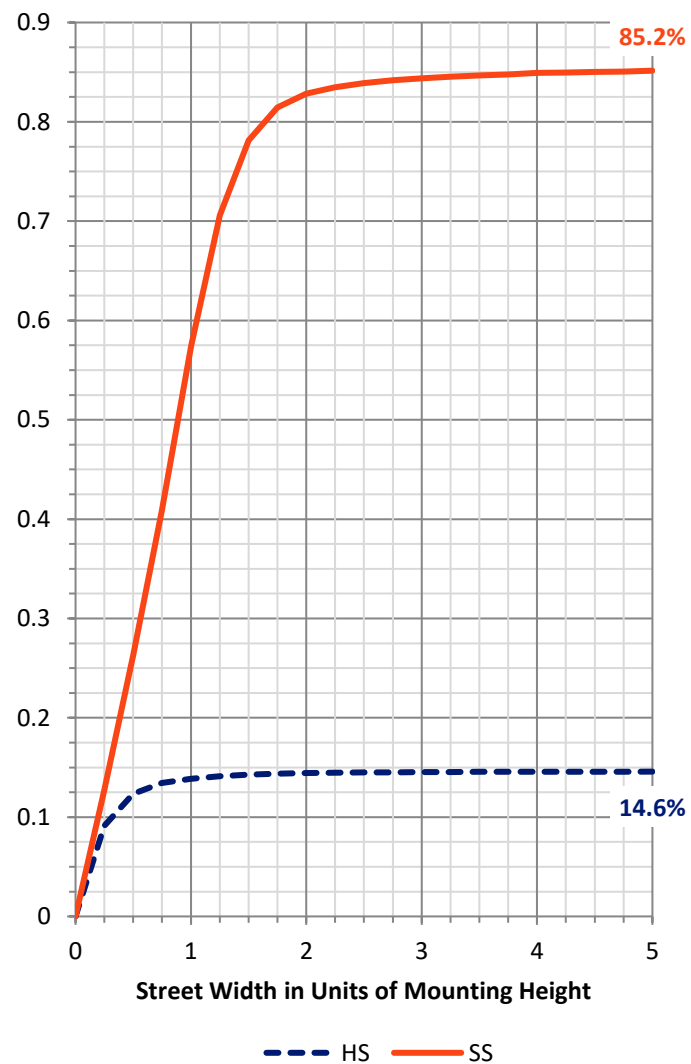
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	467.6	0.0	467.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	2713.4	0.0	2713.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	3181.0	0.0	3181.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.0	1.2
10°-20°	102.6	3.2
20°-30°	178.7	5.6
30°-40°	322.1	10.1
40°-50°	638.8	20.1
50°-60°	870.2	27.4
60°-70°	694.6	21.8
70°-80°	314.3	9.9
80°-90°	22.6	0.7
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°	3181.0	100.0
0°-180°	3181.0	100.0

Coefficient of Utilization



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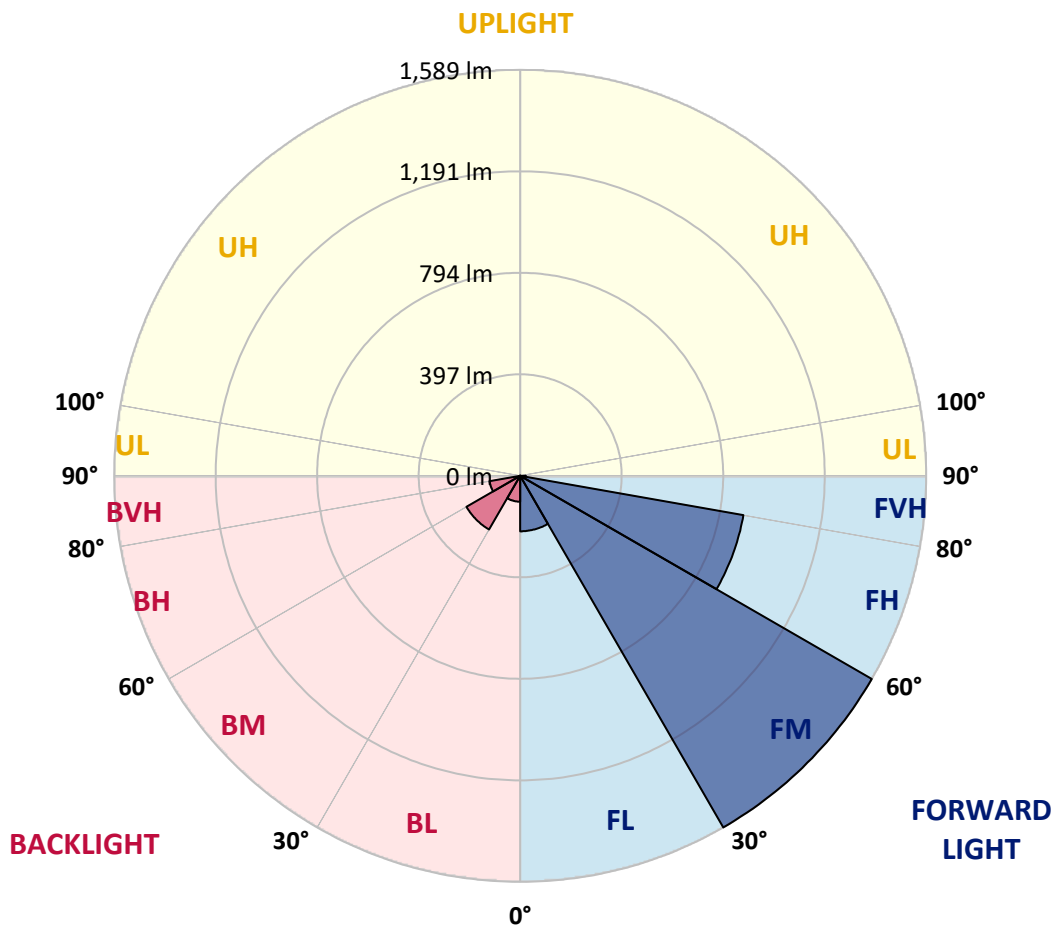
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	217.1	6.8			
FM	(30°-60°)	1588.5	49.9			
FH	(60°-80°)	886.8	27.9			G1/1800
FVH	(80°-90°)	20.9	0.7			G1/100
BL	(0°-30°)	101.2	3.2	B0/110		
BM	(30°-60°)	242.6	7.6	B1/1000		
BH	(60°-80°)	122.1	3.8	B1/500		G1/500
BVH	(80°-90°)	1.7	0.1			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	392.6	392.6	392.6	392.6	392.6	392.6	392.6	392.6	392.6	392.6	392.6
2.5°	401.8	400.7	402.2	401.6	401.1	400.3	399.8	399.4	398.5	397.8	395.2
5°	402.9	402.2	403.8	405.1	406.4	407.7	408.4	409.2	408.4	406.6	404.0
7.5°	393.7	393.3	396.5	400.5	406.4	411.4	416.9	420.0	420.2	419.5	416.7
10°	393.0	391.9	395.2	400.0	407.7	416.7	426.3	432.9	433.7	436.6	433.5
12.5°	403.3	402.2	406.8	412.1	420.0	429.4	441.2	450.4	451.7	455.6	453.4
15°	420.6	419.1	424.3	431.1	441.2	451.9	464.4	472.7	473.8	478.6	474.7
17.5°	440.7	439.2	445.3	452.6	463.5	478.2	492.6	501.8	503.1	506.2	499.0
20°	466.6	464.6	469.4	476.0	487.6	505.1	522.4	535.5	535.3	535.3	523.5
22.5°	496.5	493.5	497.6	502.9	513.8	535.1	558.0	573.6	573.6	567.4	548.0
25°	528.7	525.6	530.2	535.1	544.7	568.8	595.7	614.9	615.8	605.3	574.2
27.5°	569.0	565.0	568.5	574.2	579.9	604.4	636.4	658.7	659.1	642.9	599.2
30°	646.4	635.3	624.3	618.2	620.8	645.1	679.3	704.0	706.2	683.9	626.3
32.5°	788.3	786.1	747.6	697.2	671.0	688.9	727.2	757.0	758.3	729.6	661.5
35°	1008.6	1006.0	944.1	848.2	762.7	747.6	785.4	820.6	819.8	787.4	707.3
37.5°	1271.7	1269.3	1187.6	1059.4	920.9	836.2	860.5	897.5	902.9	860.5	766.4
40°	1496.4	1487.4	1435.8	1312.2	1131.0	983.2	967.3	991.8	997.5	947.1	841.4
42.5°	1666.7	1659.0	1632.8	1555.5	1385.2	1200.8	1093.1	1102.5	1108.9	1048.5	927.7
45°	1754.9	1753.1	1763.6	1756.4	1644.3	1467.7	1273.0	1233.8	1236.2	1160.7	1025.5
47.5°	1767.3	1766.5	1814.4	1882.2	1867.1	1768.9	1503.9	1397.5	1389.0	1287.4	1131.8
50°	1693.8	1692.1	1784.0	1911.1	2015.9	2021.8	1766.0	1582.0	1563.2	1418.5	1242.8
52.5°	1459.0	1458.6	1609.6	1821.2	2068.2	2243.3	2025.1	1784.6	1753.1	1557.3	1360.1
55°	1122.6	1130.7	1303.8	1554.0	1972.8	2349.9	2257.8	2009.6	1961.2	1696.9	1468.2
57.5°	795.3	807.1	978.2	1201.0	1677.0	2286.9	2415.1	2235.0	2182.9	1836.1	1577.8
60°	427.2	437.7	609.0	874.9	1247.6	2051.8	2498.0	2430.6	2381.4	1968.2	1676.7
62.5°	254.5	258.0	328.9	564.8	843.8	1567.5	2462.8	2579.7	2539.2	2079.2	1762.7
65°	182.7	183.4	219.1	344.9	512.3	952.4	2215.7	2651.0	2638.5	2162.8	1826.4
67.5°	153.8	153.4	168.3	229.1	349.0	477.1	1698.2	2550.1	2603.1	2215.7	1862.5
70°	132.0	132.6	150.1	167.8	262.4	270.0	844.3	2220.3	2333.3	2229.7	1860.3
72.5°	98.3	100.4	116.6	153.0	198.0	185.8	291.5	1646.3	1850.5	2100.8	1763.8
75°	69.4	70.5	82.1	128.7	147.7	135.2	148.8	851.1	1112.8	1610.6	1443.7
77.5°	53.4	55.4	62.2	89.9	145.5	95.0	91.0	294.6	452.6	973.0	989.8
80°	28.9	32.4	44.9	65.0	102.2	67.2	45.1	117.3	153.4	455.0	381.7
82.5°	14.9	16.6	31.3	46.8	58.2	58.6	22.3	48.8	63.2	140.5	52.3
85°	5.9	7.2	21.0	25.8	30.0	28.9	10.1	19.7	22.8	39.0	16.0
87.5°	1.3	2.2	7.7	5.9	5.7	6.1	2.4	4.6	4.4	4.6	2.8
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°	392.6	392.6	392.6	392.6	392.6	392.6	392.6	392.6	392.6	392.6	392.6
2.5°	395.0	394.1	391.7	389.1	386.0	384.3	383.2	383.0	381.4	380.3	381.4
5°	401.6	400.7	396.1	390.6	384.7	380.1	375.7	371.8	366.1	365.0	364.6
7.5°	414.7	412.3	404.9	397.4	386.2	372.9	356.7	338.1	321.5	316.4	314.0
10°	430.9	427.6	418.2	405.1	380.3	344.0	304.8	268.5	239.6	231.5	228.5
12.5°	449.3	446.4	434.0	409.7	355.6	289.7	229.8	184.7	156.7	149.7	147.7
15°	471.2	467.0	449.7	402.7	311.4	220.2	157.8	131.1	121.0	119.7	118.4
17.5°	494.4	487.6	463.7	377.5	251.9	156.5	121.9	114.2	109.9	108.5	107.9
20°	515.6	506.8	472.0	339.4	188.2	121.9	109.2	104.2	100.2	98.7	97.8
22.5°	536.8	524.3	472.0	287.6	141.2	108.1	100.2	95.6	91.0	89.1	88.0
25°	558.9	542.3	463.7	229.8	113.6	99.1	91.7	86.7	82.7	80.3	79.4
27.5°	580.4	557.4	444.7	175.1	101.1	91.3	83.8	79.0	75.3	73.5	73.5
30°	600.7	572.3	418.0	132.8	93.0	83.6	76.6	72.4	68.7	67.0	67.2
32.5°	628.3	591.1	389.5	109.0	86.0	76.4	70.0	66.1	62.8	61.5	61.5
35°	666.6	618.9	365.0	107.0	80.1	70.5	64.1	60.4	57.1	56.0	56.0
37.5°	720.9	663.7	352.1	120.1	75.3	65.2	59.3	55.4	52.3	51.4	51.2
40°	787.8	724.6	359.1	133.3	72.0	60.6	54.9	51.0	48.4	47.3	47.1
42.5°	867.3	799.6	397.8	143.3	69.8	56.7	50.8	46.4	44.6	44.2	44.2
45°	958.5	882.1	457.2	154.1	66.3	53.0	46.6	43.3	42.0	41.8	41.6
47.5°	1062.2	972.7	525.9	167.4	62.8	49.5	43.3	41.1	40.0	39.6	39.6
50°	1165.1	1064.0	596.6	174.9	60.0	46.2	40.7	39.0	38.1	37.9	37.9
52.5°	1272.8	1157.9	653.7	167.8	57.6	43.5	38.5	37.2	36.3	36.1	36.1
55°	1375.4	1233.8	663.5	142.5	52.7	40.9	36.1	35.5	34.4	34.4	34.1
57.5°	1463.8	1271.9	593.9	104.6	47.9	37.0	33.7	33.0	32.2	32.0	31.7
60°	1545.0	1260.9	458.5	70.5	42.7	33.0	30.6	30.2	29.3	28.2	28.0
62.5°	1590.7	1212.8	313.6	46.0	37.4	28.9	27.1	26.9	24.9	22.8	22.3
65°	1608.0	1113.9	195.6	33.5	31.3	24.7	23.4	23.0	20.1	17.7	17.5
67.5°	1592.9	951.1	98.7	26.5	24.7	20.6	19.3	19.3	17.3	15.1	14.9
70°	1532.5	713.0	41.6	21.2	19.0	15.8	15.8	16.6	14.7	12.3	12.0
72.5°	1401.4	479.7	22.1	16.2	14.2	11.2	12.9	13.6	11.6	9.2	9.2
75°	1114.1	292.6	15.3	12.0	9.0	7.9	9.8	10.3	7.9	6.1	5.9
77.5°	762.0	168.1	10.3	7.7	5.7	4.6	6.8	6.3	4.2	2.8	3.1
80°	334.6	70.0	5.9	3.5	2.2	1.8	2.4	1.8	1.3	0.9	0.9
82.5°	39.2	16.4	2.2	1.3	0.9	0.4	0.2	0.0	0.0	0.0	0.0
85°	8.1	2.0	1.1	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	0.4	0.2	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)