

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: P944849

Luminaire Tested: **GALN-SB1A-722-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944849
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-SB1A-722-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 350mA 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: 2855 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - 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

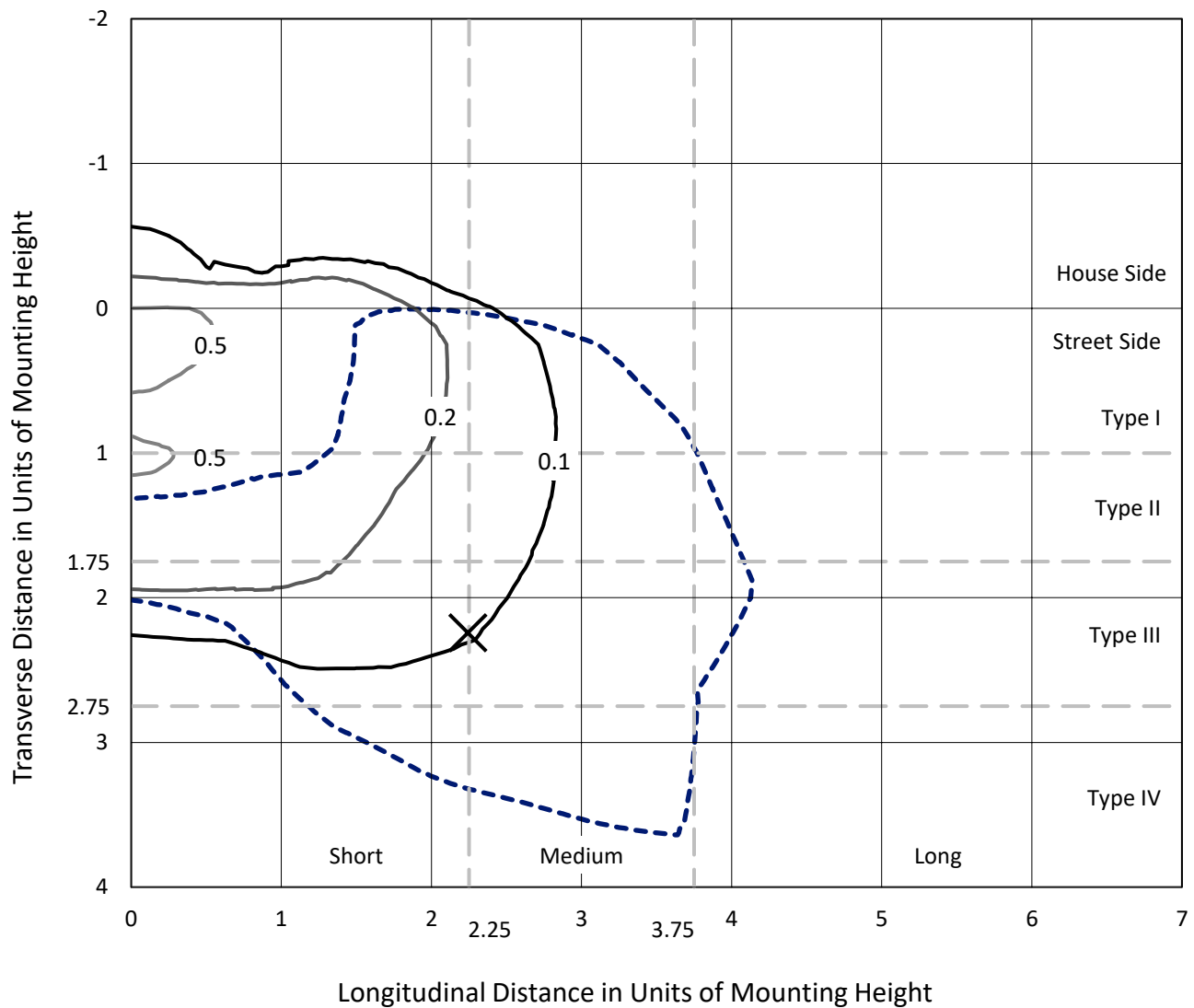


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Iso-Footcandle Lines of Horizontal Illumination

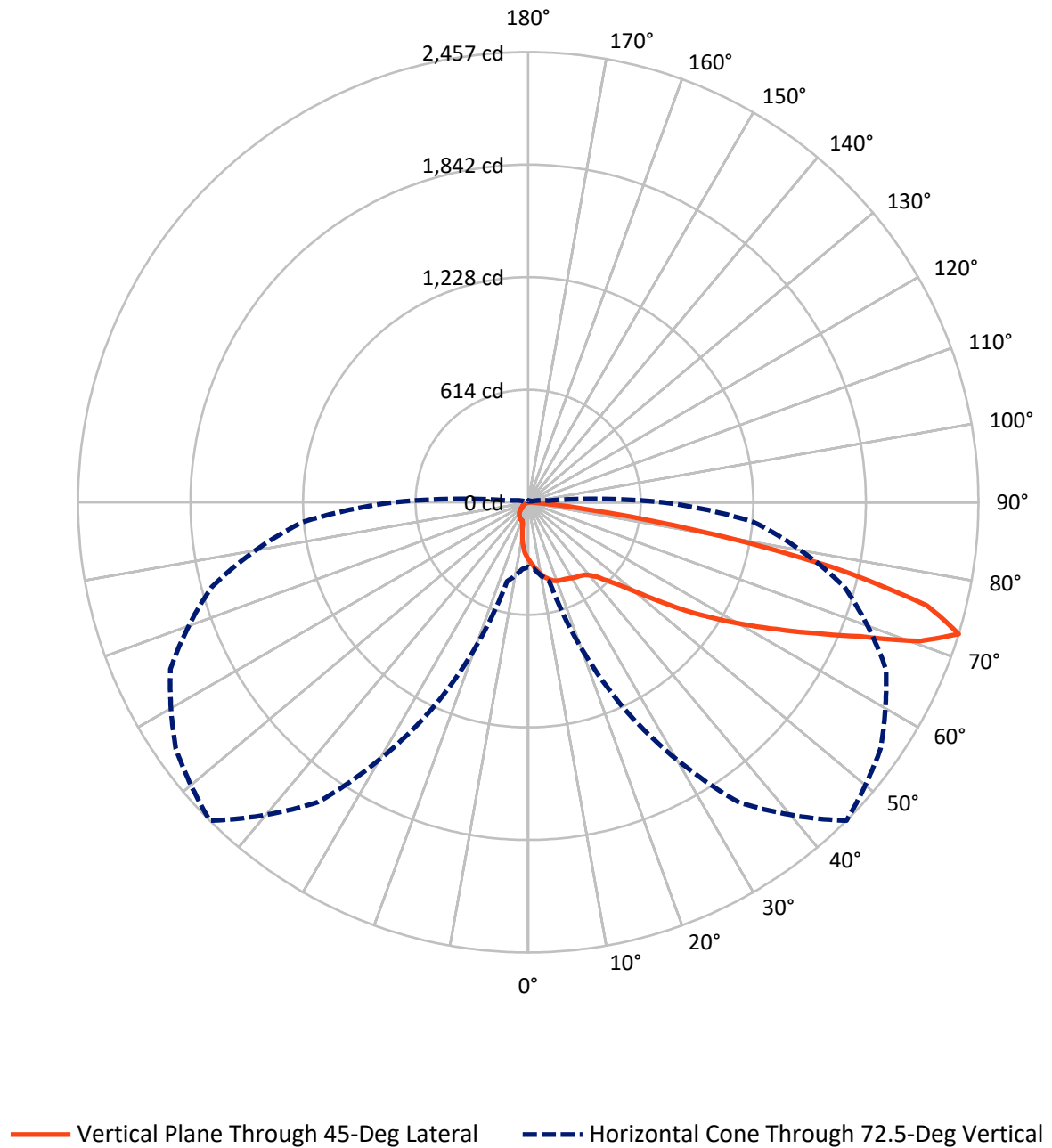
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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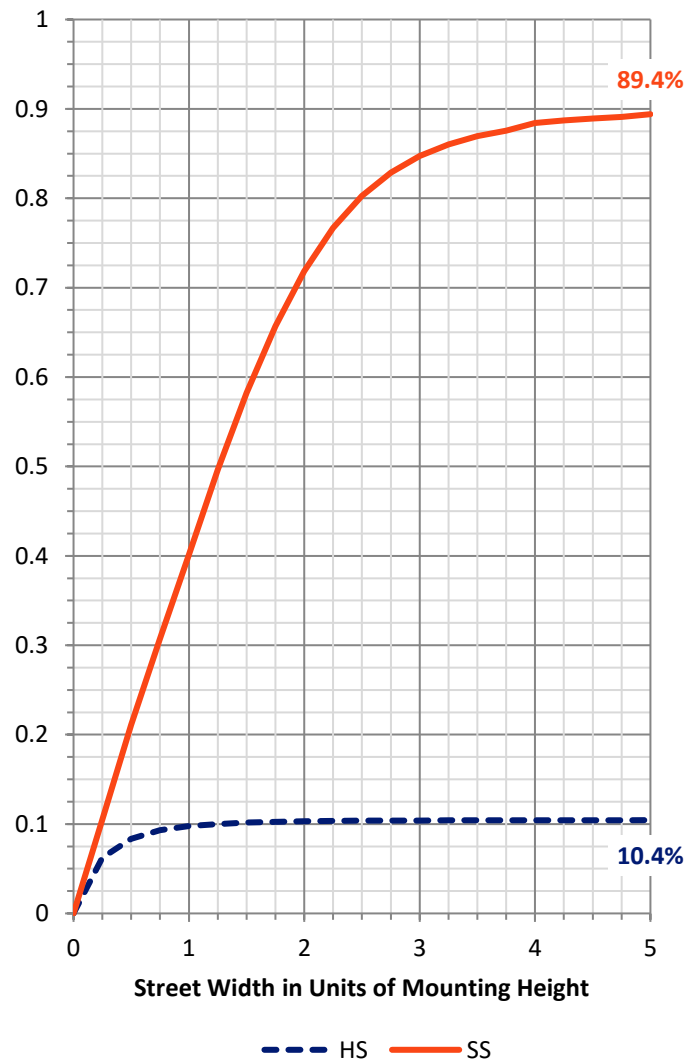
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	300.0	0.0	300.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	2555.0	0.0	2555.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	2855.0	0.0	2855.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.5	1.0
10°-20°	86.1	3.0
20°-30°	141.4	5.0
30°-40°	200.6	7.0
40°-50°	331.5	11.6
50°-60°	595.6	20.9
60°-70°	827.0	29.0
70°-80°	599.9	21.0
80°-90°	43.4	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°	2855.0	100.0
0°-180°	2855.0	100.0

Coefficient of Utilization



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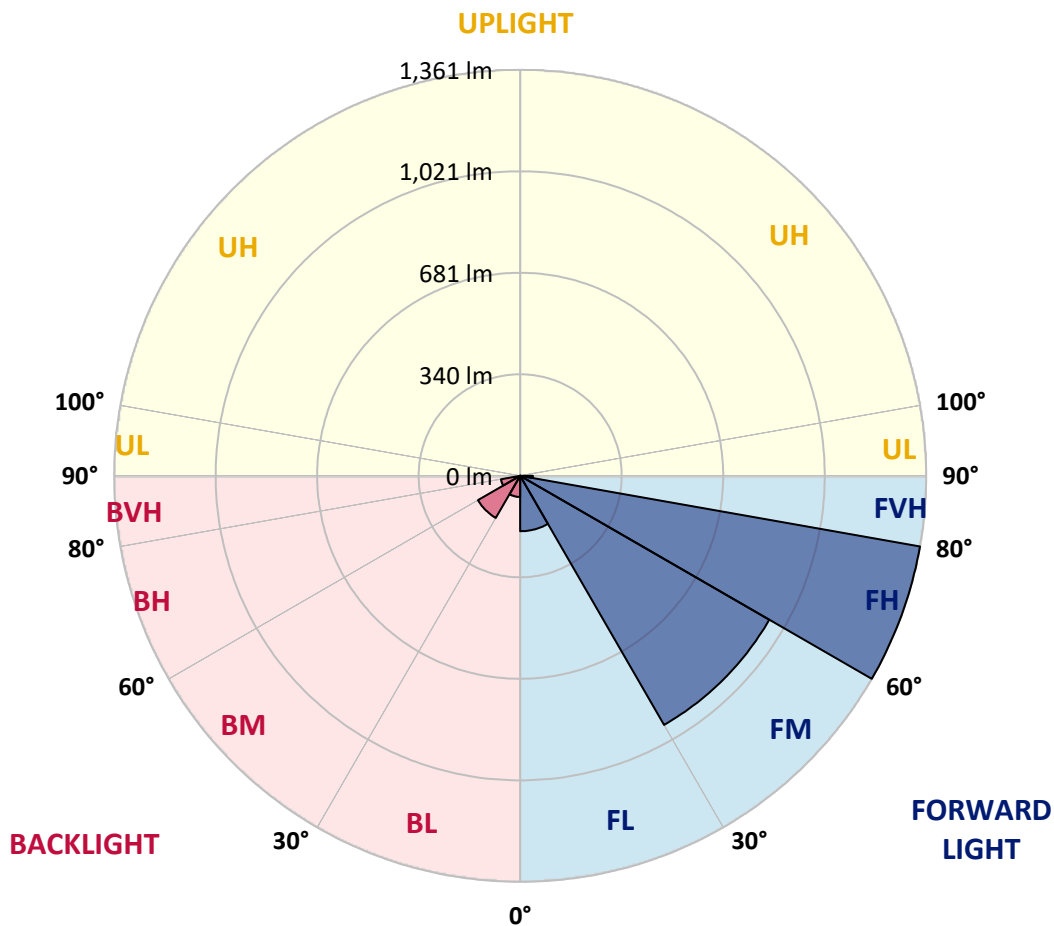
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	186.0	6.5			
FM	(30°-60°)	964.6	33.8			
FH	(60°-80°)	1361.5	47.7			G1/1800
FVH	(80°-90°)	43.0	1.5			G1/100
BL	(0°-30°)	71.1	2.5	B0/110		
BM	(30°-60°)	163.1	5.7	B0/220		
BH	(60°-80°)	65.4	2.3	B0/110		G0/110
BVH	(80°-90°)	0.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	312.8	312.8	312.8	312.8	312.8	312.8	312.8	312.8	312.8	312.8	312.8
2.5°	341.6	342.2	341.8	339.5	335.6	333.4	332.3	328.4	325.8	321.3	316.7
5°	373.0	375.3	374.0	369.3	361.9	356.6	355.1	347.1	339.9	331.5	321.7
7.5°	406.3	407.5	404.9	398.9	389.0	380.0	378.6	367.5	356.0	343.2	329.9
10°	435.2	436.5	432.6	423.8	412.5	401.4	399.5	387.2	373.6	357.8	340.8
12.5°	459.3	460.7	455.6	445.1	432.6	421.1	419.2	406.3	391.3	373.8	352.7
15°	477.6	480.2	473.3	462.0	448.6	437.1	436.1	423.5	408.8	389.4	366.9
17.5°	488.4	490.9	484.5	470.8	459.3	449.6	448.4	437.9	424.2	405.5	380.8
20°	490.1	492.4	485.6	473.7	464.2	456.4	455.8	448.2	438.3	420.3	395.8
22.5°	484.8	487.8	481.5	472.0	465.4	461.3	460.5	456.2	450.5	435.3	409.8
25°	479.4	481.7	477.0	468.7	465.2	464.8	465.4	464.6	463.4	450.5	426.2
27.5°	479.0	481.5	476.3	468.3	466.3	470.4	471.0	474.7	475.7	464.4	442.0
30°	482.3	484.1	479.0	470.6	469.6	479.0	479.2	485.8	487.4	476.1	457.6
32.5°	489.5	491.5	486.4	474.1	472.8	485.8	486.4	495.2	497.7	488.5	473.9
35°	506.5	508.8	503.0	483.9	479.0	492.2	494.0	504.3	509.4	501.8	490.9
37.5°	548.8	541.9	534.0	503.6	493.2	502.4	505.3	517.4	526.4	517.6	511.2
40°	653.8	632.4	607.4	537.1	518.2	524.0	526.4	538.4	550.7	542.1	539.0
42.5°	811.5	786.1	746.0	614.2	555.8	558.7	560.5	571.0	588.3	581.5	582.3
45°	952.0	942.8	901.9	746.0	626.1	611.7	613.9	619.3	644.8	642.3	647.4
47.5°	1059.9	1054.7	1023.1	897.2	745.0	676.6	682.6	685.2	722.0	731.0	744.6
50°	1142.9	1141.0	1112.7	1031.7	900.3	772.3	774.4	769.0	824.1	846.3	872.3
52.5°	1221.3	1227.9	1207.0	1156.6	1066.2	897.6	897.2	871.5	945.9	979.4	1023.7
55°	1292.0	1294.3	1296.5	1284.0	1233.0	1040.2	1036.5	994.4	1087.2	1121.9	1169.8
57.5°	1358.5	1359.4	1378.5	1404.1	1406.6	1193.4	1186.6	1136.1	1241.5	1266.3	1295.7
60°	1403.1	1407.6	1447.9	1518.8	1549.8	1351.4	1347.7	1296.3	1398.6	1410.1	1404.6
62.5°	1338.8	1366.1	1467.8	1608.5	1685.1	1526.6	1524.9	1476.6	1563.9	1554.5	1507.7
65°	1083.7	1129.9	1308.8	1669.1	1817.8	1722.3	1724.8	1673.4	1733.6	1703.2	1591.5
67.5°	758.1	806.8	1018.4	1674.0	1966.1	1952.0	1966.7	1886.0	1913.8	1845.6	1611.4
70°	524.2	549.3	687.1	1569.1	2081.6	2268.5	2268.1	2147.1	2093.1	1910.5	1510.1
72.5°	352.5	365.6	446.3	1244.8	1996.7	2456.6	2445.3	2346.7	2153.5	1786.8	1233.7
75°	148.7	158.2	206.6	699.6	1579.6	2247.5	2216.9	2073.8	1913.5	1407.0	769.7
77.5°	47.2	51.3	81.5	250.4	870.1	1689.4	1657.0	1295.1	1282.5	705.8	281.4
80°	22.4	26.1	45.8	100.6	342.4	918.8	914.3	587.5	551.7	190.6	56.5
82.5°	9.7	11.5	25.3	53.8	153.2	327.8	334.4	199.9	165.4	72.3	17.3
85°	3.1	4.1	11.7	24.7	64.7	81.5	80.5	47.5	66.6	39.4	6.0
87.5°	0.0	0.0	3.9	5.7	6.6	4.7	5.3	4.1	18.5	10.9	2.1
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°	312.8	312.8	312.8	312.8	312.8	312.8	312.8	312.8	312.8	312.8	312.8
2.5°	314.3	311.2	305.8	300.7	296.2	291.7	289.0	285.1	284.7	284.7	285.7
5°	316.5	311.4	301.7	291.3	279.4	268.1	256.8	245.9	242.4	239.9	241.1
7.5°	322.7	314.7	299.3	279.6	257.0	232.3	214.9	196.2	189.0	185.1	185.7
10°	331.7	320.8	297.4	262.9	226.2	192.5	167.8	147.5	139.7	136.4	136.4
12.5°	341.6	328.2	293.9	242.0	192.5	152.2	128.0	118.7	117.5	117.5	117.5
15°	353.5	337.1	287.8	217.5	157.3	120.4	111.9	112.2	113.4	114.2	114.2
17.5°	365.8	346.7	278.3	190.0	126.1	108.3	108.5	109.1	110.1	110.9	110.9
20°	379.0	356.2	265.6	160.8	108.2	104.8	105.4	106.0	106.8	107.2	107.4
22.5°	393.3	365.2	250.6	132.1	102.1	101.9	102.1	102.7	103.7	103.7	104.1
25°	408.5	375.1	233.5	111.3	99.0	99.0	99.4	99.8	100.6	100.6	100.7
27.5°	424.0	384.3	215.3	100.4	96.3	96.1	96.1	96.7	97.0	97.2	97.4
30°	441.2	395.0	197.2	98.0	94.1	93.1	92.6	93.0	93.3	93.5	93.9
32.5°	458.7	405.3	181.0	99.0	92.0	90.2	88.3	87.9	87.9	88.7	89.3
35°	478.2	416.6	168.6	102.3	90.8	85.9	82.8	81.1	81.3	82.4	83.0
37.5°	501.6	430.3	159.4	105.2	90.0	81.1	76.0	73.9	72.5	73.9	73.5
40°	532.2	450.4	152.8	107.6	89.1	75.4	68.6	65.1	62.6	63.3	62.9
42.5°	577.2	481.9	150.2	107.8	86.9	68.8	61.0	56.3	52.6	52.8	52.0
45°	640.4	531.8	163.3	105.2	82.2	61.6	53.0	46.8	44.4	43.8	43.1
47.5°	726.9	604.5	193.5	100.0	75.4	54.6	45.2	39.9	38.2	37.2	36.6
50°	842.8	697.8	227.0	94.1	68.6	47.9	38.8	35.5	34.3	33.3	33.1
52.5°	977.3	792.5	254.5	88.3	61.8	42.1	34.7	32.7	31.8	31.0	30.8
55°	1100.6	857.8	252.9	82.0	55.1	37.4	31.8	30.6	29.4	28.6	28.3
57.5°	1177.4	867.0	208.5	75.2	47.5	33.7	29.0	28.3	26.9	25.9	25.7
60°	1212.7	814.8	146.2	66.3	39.9	30.2	26.1	25.7	24.0	22.6	22.2
62.5°	1219.1	717.7	97.4	55.1	33.3	26.9	23.2	22.6	20.3	17.9	16.8
65°	1193.0	579.0	67.4	43.1	28.5	23.4	19.9	18.7	16.2	13.8	13.1
67.5°	1110.4	406.5	47.0	31.0	24.2	18.5	15.8	15.4	13.4	11.5	10.9
70°	959.0	231.7	31.4	23.2	19.1	12.7	12.5	12.9	10.9	9.4	8.6
72.5°	735.3	106.0	19.5	17.0	13.1	8.6	9.9	10.1	8.4	7.0	6.2
75°	432.8	45.4	12.3	10.9	6.6	5.7	7.2	7.4	5.7	4.5	3.9
77.5°	147.3	17.1	7.8	6.4	3.3	3.1	4.7	4.7	3.1	1.8	1.4
80°	33.5	6.4	3.9	2.5	1.6	1.4	1.6	1.4	0.8	0.2	0.0
82.5°	9.5	2.5	1.6	1.0	0.6	0.6	0.2	0.0	0.0	0.0	0.0
85°	2.7	1.2	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.2	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)