

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: P450331

Luminaire Tested: **GALN-SA1A-760-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-760-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3332 lumens
Efficiency: N/A
Efficacy: 101.0 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

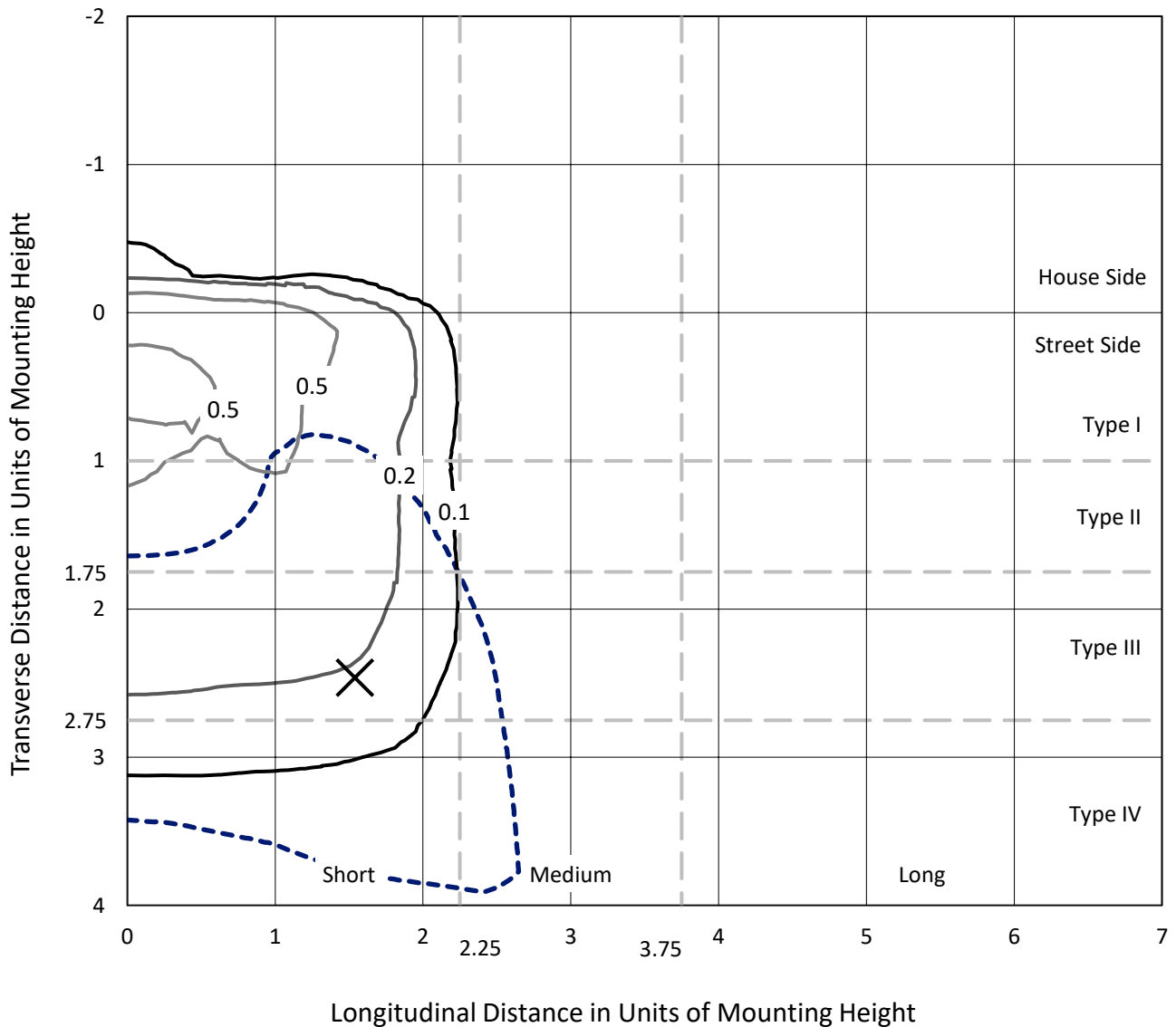
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

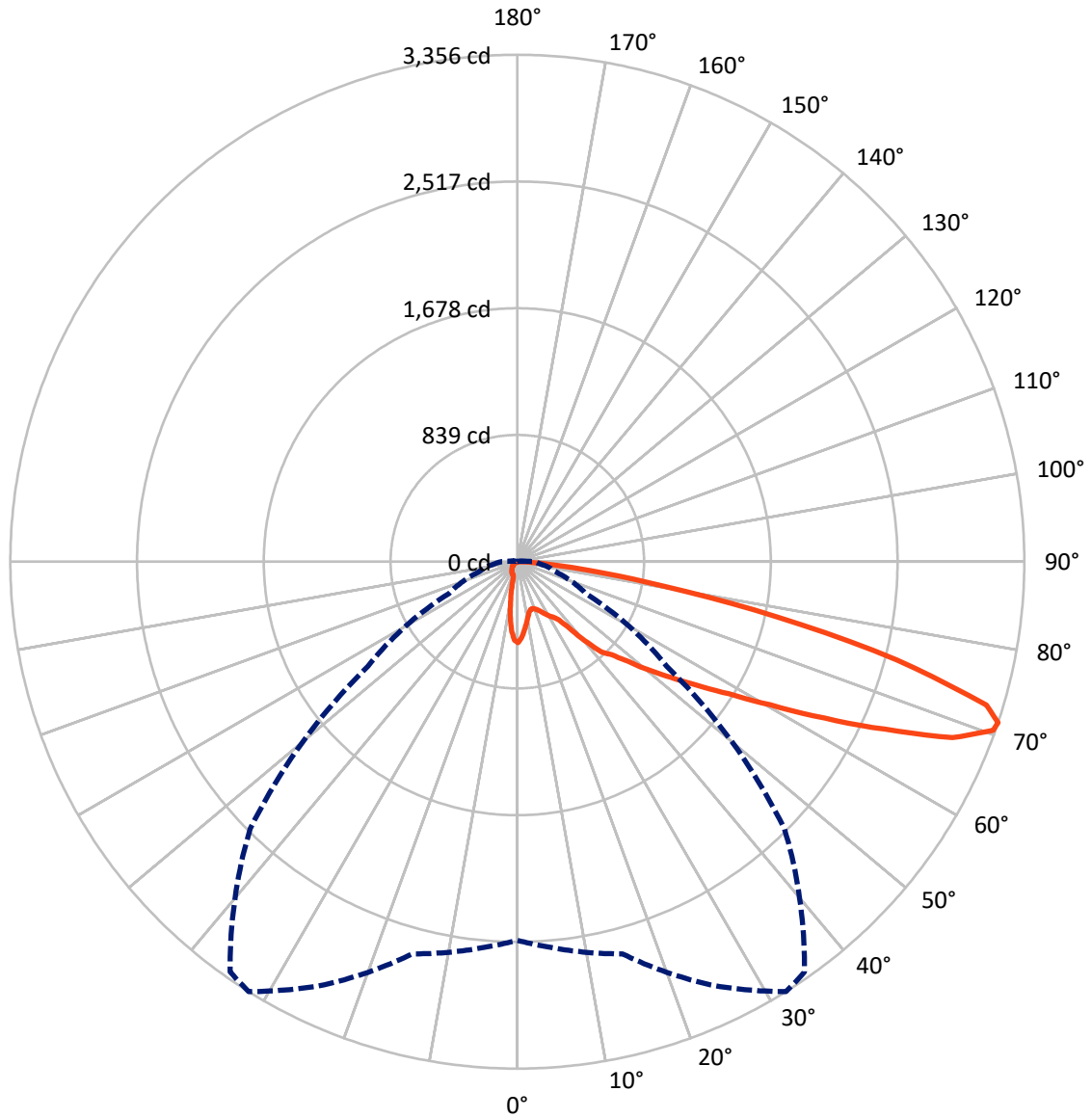
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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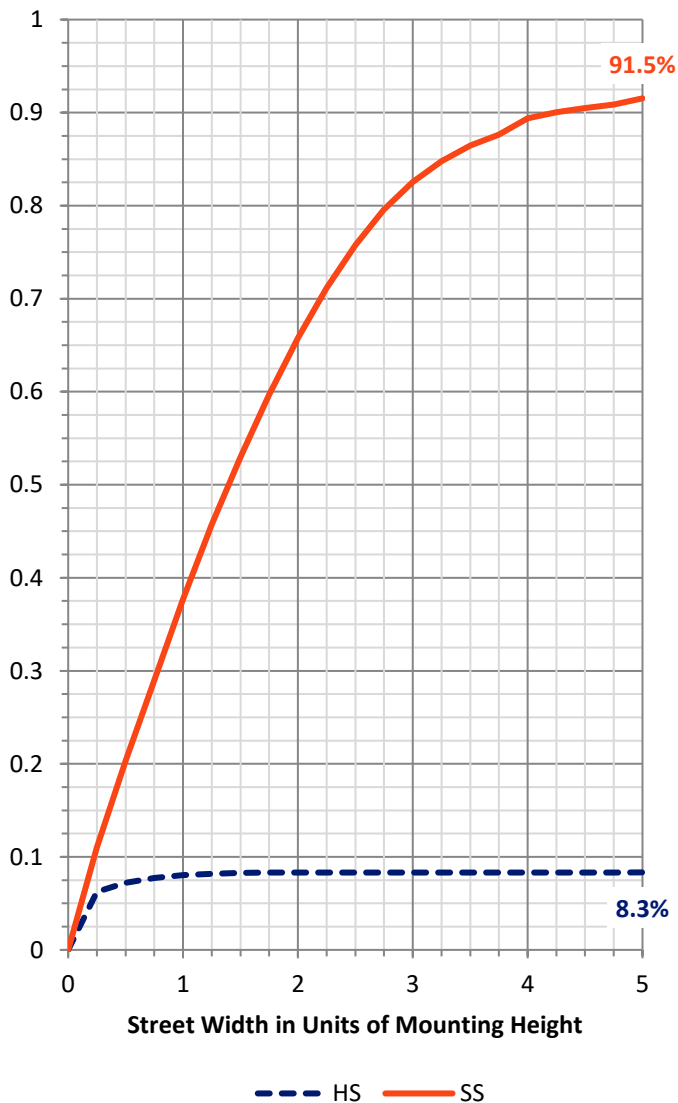
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	279.1	0.0	279.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	3052.9	0.0	3052.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	3332.0	0.0	3332.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	1.3
10°-20°	94.6	2.8
20°-30°	147.1	4.4
30°-40°	245.1	7.4
40°-50°	455.9	13.7
50°-60°	732.0	22.0
60°-70°	984.5	29.5
70°-80°	584.1	17.5
80°-90°	45.2	1.4
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°	3332.0	100.0
0°-180°	3332.0	100.0



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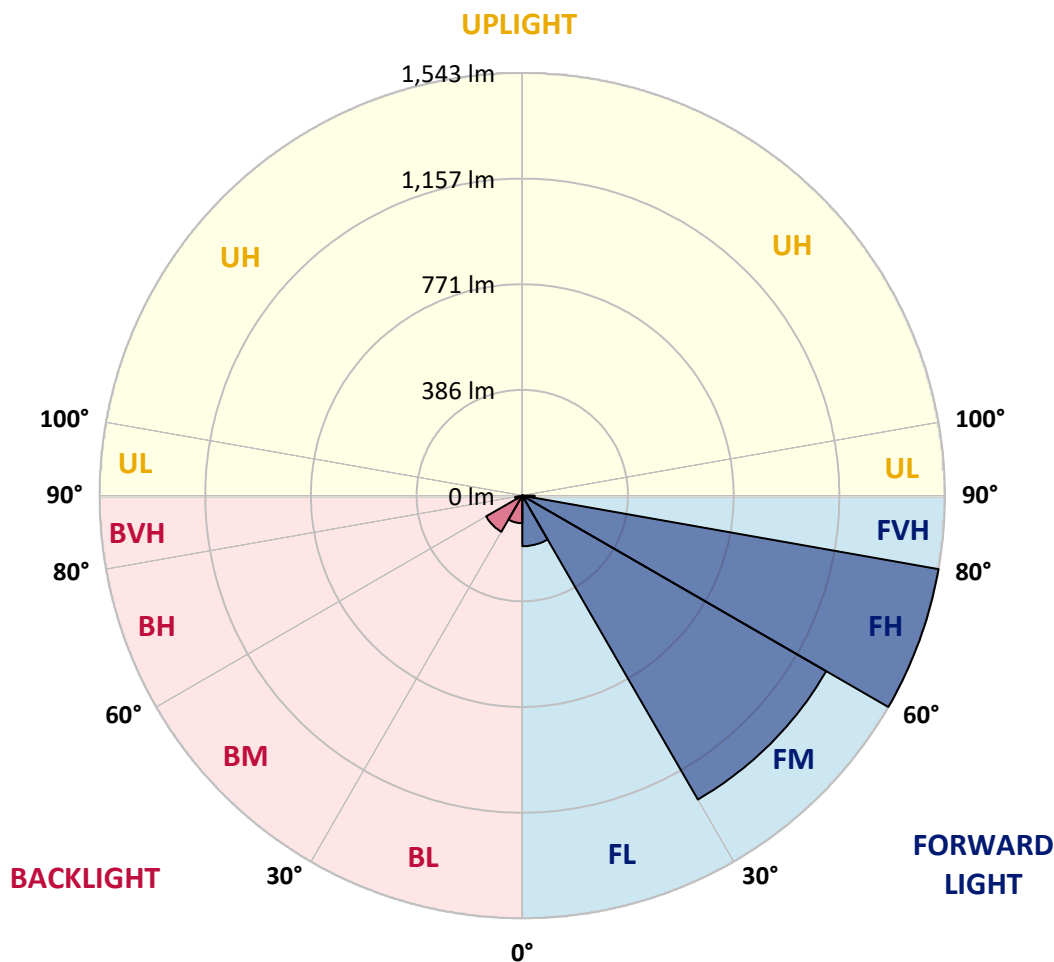
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	184.7	5.5			
FM (30°-60°)	1280.7	38.4			
FH (60°-80°)	1542.6	46.3			G1/1800
FVH (80°-90°)	45.0	1.3			G1/100
BL (0°-30°)	100.6	3.0	B0/110		
BM (30°-60°)	152.3	4.6	B0/220		
BH (60°-80°)	26.1	0.8	B0/110		G0/110
BVH (80°-90°)	0.2	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°	32°	35°	45°	55°	65°	75°	85°
0°	535.8	535.8	535.8	535.8	535.8	535.8	535.8	535.8	535.8	535.8	535.8
2.5°	497.0	502.1	501.3	503.1	507.4	509.2	514.1	519.5	526.9	532.0	535.3
5°	445.0	448.9	449.4	458.3	462.7	467.5	481.9	497.5	514.9	528.7	537.9
7.5°	389.5	391.6	395.7	407.4	418.4	423.3	445.0	472.2	499.5	525.4	542.0
10°	343.8	346.1	353.5	366.0	376.2	382.6	412.8	446.8	485.2	523.6	547.9
12.5°	317.7	318.9	321.8	333.0	346.1	353.0	385.4	424.3	473.7	524.3	557.8
15°	315.9	315.4	312.0	316.6	328.4	335.6	367.3	409.0	463.5	526.9	569.6
17.5°	325.3	324.1	316.1	316.1	325.9	331.7	359.6	400.8	458.3	532.8	586.2
20°	339.9	337.9	324.8	323.8	333.3	339.4	364.2	401.3	459.4	543.8	608.5
22.5°	358.3	356.0	336.3	336.8	347.1	353.2	377.5	410.5	465.8	557.3	632.3
25°	382.4	379.8	356.5	355.5	366.3	371.6	397.2	426.9	474.7	574.2	663.5
27.5°	414.3	409.0	381.1	379.6	391.1	398.0	421.0	448.9	490.6	597.5	705.4
30°	440.7	434.8	408.2	404.1	416.4	421.8	445.6	478.5	521.8	638.1	763.5
32.5°	475.2	466.5	435.3	424.6	437.6	444.5	481.1	533.8	568.1	681.1	832.5
35°	553.0	547.6	509.5	471.9	471.1	479.8	533.5	589.5	615.6	748.1	926.7
37.5°	664.2	660.4	620.0	569.6	555.0	550.9	597.2	650.9	691.6	840.2	1036.1
40°	793.4	784.4	747.4	704.6	685.7	673.7	672.4	742.2	790.8	965.3	1150.2
42.5°	886.0	869.6	824.6	821.5	817.4	804.9	768.6	875.8	919.0	1099.8	1272.2
45°	983.2	958.4	891.4	879.8	878.3	877.5	913.9	1033.8	1058.6	1245.6	1397.5
47.5°	1058.6	1038.9	983.9	978.8	985.2	1002.6	1105.9	1201.6	1196.5	1375.5	1502.6
50°	1159.1	1144.3	1083.2	1092.9	1125.9	1154.3	1322.6	1384.5	1309.8	1477.8	1579.1
52.5°	1277.8	1250.5	1193.7	1220.0	1270.7	1318.0	1552.5	1544.6	1389.3	1554.8	1636.2
55°	1380.6	1361.2	1341.8	1369.1	1444.8	1503.9	1760.2	1664.5	1447.1	1616.7	1661.2
57.5°	1554.6	1550.0	1530.0	1557.9	1649.7	1711.1	1946.2	1757.6	1484.2	1648.9	1631.8
60°	1811.9	1804.5	1767.4	1802.9	1922.6	2019.0	2117.5	1841.3	1492.7	1636.4	1547.2
62.5°	2121.4	2096.0	2064.3	2116.8	2281.0	2323.4	2278.9	1890.9	1461.2	1536.7	1343.0
65°	2410.4	2384.3	2385.1	2495.5	2674.3	2703.2	2467.2	1883.5	1369.1	1286.8	990.6
67.5°	2631.6	2627.3	2658.5	2874.1	3107.9	3087.9	2635.5	1772.5	1096.2	834.1	526.4
70°	2642.9	2651.3	2740.8	3104.8	3342.1	3310.4	2621.1	1440.8	683.4	383.7	207.4
71°	2506.8	2563.6	2687.4	3097.6	3356.0	3314.8	2500.4	1206.7	501.3	267.5	149.6
72.5°	2136.2	2166.1	2433.6	2915.3	3246.7	3158.8	2194.2	845.8	321.0	163.7	85.9
75°	1176.5	1250.2	1629.8	2287.1	2596.8	2519.6	1430.0	401.8	160.1	89.5	35.6
77.5°	560.1	545.8	795.2	1360.2	1760.7	1756.6	720.5	178.5	93.4	60.6	17.9
80°	160.1	180.1	304.4	646.6	977.6	988.3	276.7	86.2	64.7	47.3	9.2
82.5°	48.3	49.4	111.8	286.0	486.2	458.3	103.8	44.0	46.6	37.6	5.4
85°	8.4	10.5	33.0	100.8	185.4	140.7	26.1	21.0	30.7	24.8	3.1
87.5°	0.5	0.8	11.0	11.5	16.4	9.5	4.6	3.1	6.7	6.7	1.8
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°	535.8	535.8	535.8	535.8	535.8	535.8	535.8	535.8	535.8	535.8	535.8
2.5°	537.6	539.2	538.1	535.8	532.0	527.4	521.3	516.1	511.8	509.5	512.3
5°	541.0	543.0	537.9	526.4	509.0	490.1	468.6	451.9	438.9	434.8	433.3
7.5°	546.1	547.3	533.5	508.0	471.1	426.4	387.2	354.2	328.7	321.0	309.7
10°	552.7	552.0	525.9	478.3	413.6	346.3	285.7	240.7	206.7	194.4	193.4
12.5°	562.9	558.9	516.1	437.9	345.0	257.0	182.1	142.5	121.0	113.8	112.3
15°	575.7	566.0	500.8	390.6	264.2	166.0	112.3	100.3	97.4	96.9	96.4
17.5°	590.8	575.5	480.6	332.5	185.7	107.7	93.9	93.6	93.9	93.4	93.1
20°	611.3	585.5	456.5	263.7	122.8	90.8	89.5	89.5	89.8	89.5	89.5
22.5°	633.0	597.2	426.9	201.3	92.6	86.2	85.9	86.5	87.0	86.7	86.7
25°	659.9	612.6	387.7	137.9	82.9	82.4	82.6	83.6	84.7	84.9	84.7
27.5°	698.8	631.5	345.8	94.9	76.0	76.5	79.0	81.6	83.1	83.4	83.4
30°	742.5	652.5	291.1	77.0	70.3	70.3	73.4	78.3	81.6	82.1	82.4
32.5°	798.8	676.8	230.4	69.3	65.0	64.5	67.3	73.2	79.3	81.1	81.1
35°	868.3	705.4	171.4	64.5	61.1	59.9	61.4	66.2	74.2	79.3	79.8
37.5°	949.9	732.5	125.3	60.1	57.5	55.8	56.8	60.6	67.0	74.7	76.7
40°	1025.4	756.6	93.6	56.5	54.0	52.7	53.5	55.2	60.6	67.8	69.1
42.5°	1107.7	775.2	74.4	52.7	50.4	49.9	49.9	50.6	54.2	58.3	58.6
45°	1189.8	781.9	62.4	48.1	46.6	47.1	46.8	46.3	47.8	47.3	47.3
47.5°	1248.4	774.0	51.7	43.7	43.7	44.5	43.2	41.4	40.7	37.6	37.9
50°	1288.6	745.1	42.5	38.6	40.7	41.7	39.1	36.3	33.5	30.2	29.4
52.5°	1305.2	693.6	34.8	32.0	36.1	37.3	34.3	30.9	26.6	23.8	23.0
55°	1294.5	630.2	28.9	26.1	30.4	32.0	28.9	25.1	20.2	17.1	16.6
57.5°	1247.1	554.5	24.6	20.7	24.3	25.3	23.3	19.2	14.3	11.3	11.3
60°	1165.3	476.2	20.0	16.4	18.2	19.7	17.6	13.8	9.7	6.9	6.4
62.5°	999.3	386.7	16.1	12.8	12.8	14.1	12.3	10.0	6.1	3.6	3.3
65°	721.5	265.2	12.8	9.5	9.2	9.2	7.7	6.7	3.6	1.5	1.0
67.5°	392.1	149.6	10.2	7.2	6.4	6.1	4.9	3.8	1.5	0.3	0.0
70°	154.2	57.5	7.9	4.9	4.1	3.8	2.6	1.8	1.0	0.0	0.0
71°	104.6	39.6	6.9	4.1	3.3	2.8	2.0	1.5	0.8	0.0	0.0
72.5°	59.9	24.6	5.4	3.1	2.6	2.0	1.5	1.0	0.8	0.0	0.0
75°	26.1	12.5	3.3	2.3	1.8	1.3	1.0	0.8	0.3	0.0	0.0
77.5°	13.3	6.9	2.3	1.8	1.0	0.8	0.5	0.3	0.0	0.0	0.0
80°	7.4	3.6	1.5	1.0	0.8	0.5	0.3	0.3	0.0	0.0	0.0
82.5°	4.1	2.0	0.8	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.6	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	0.5	0.0	0.0	0.0	0.0	0.3	0.3	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)