

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: P450824

Luminaire Tested: **GALN-SA1C-827-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450824
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-SA1C-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA 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: 3766 lumens
Efficiency: N/A
Efficacy: 66.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

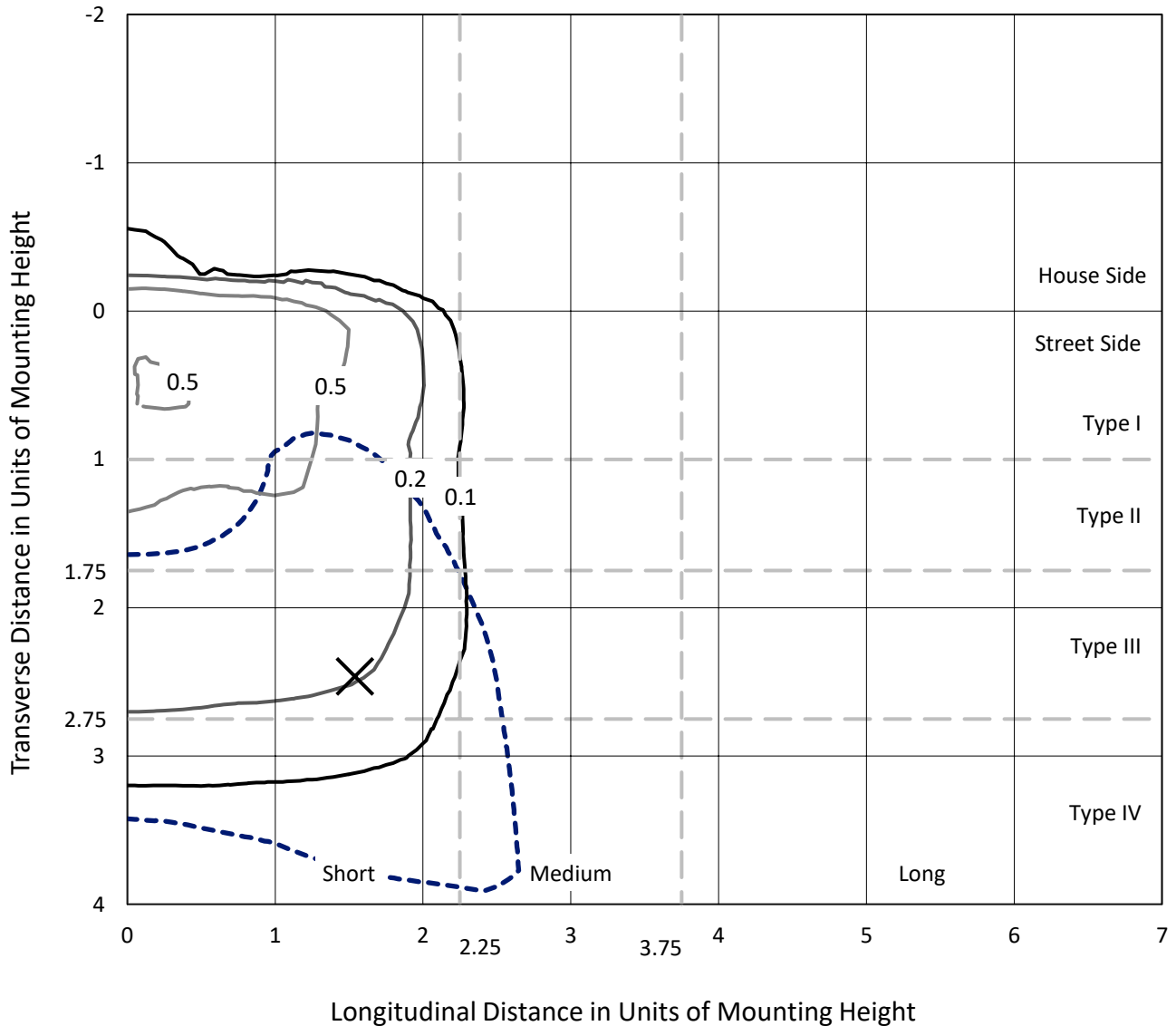
Input Watts (W): 57
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

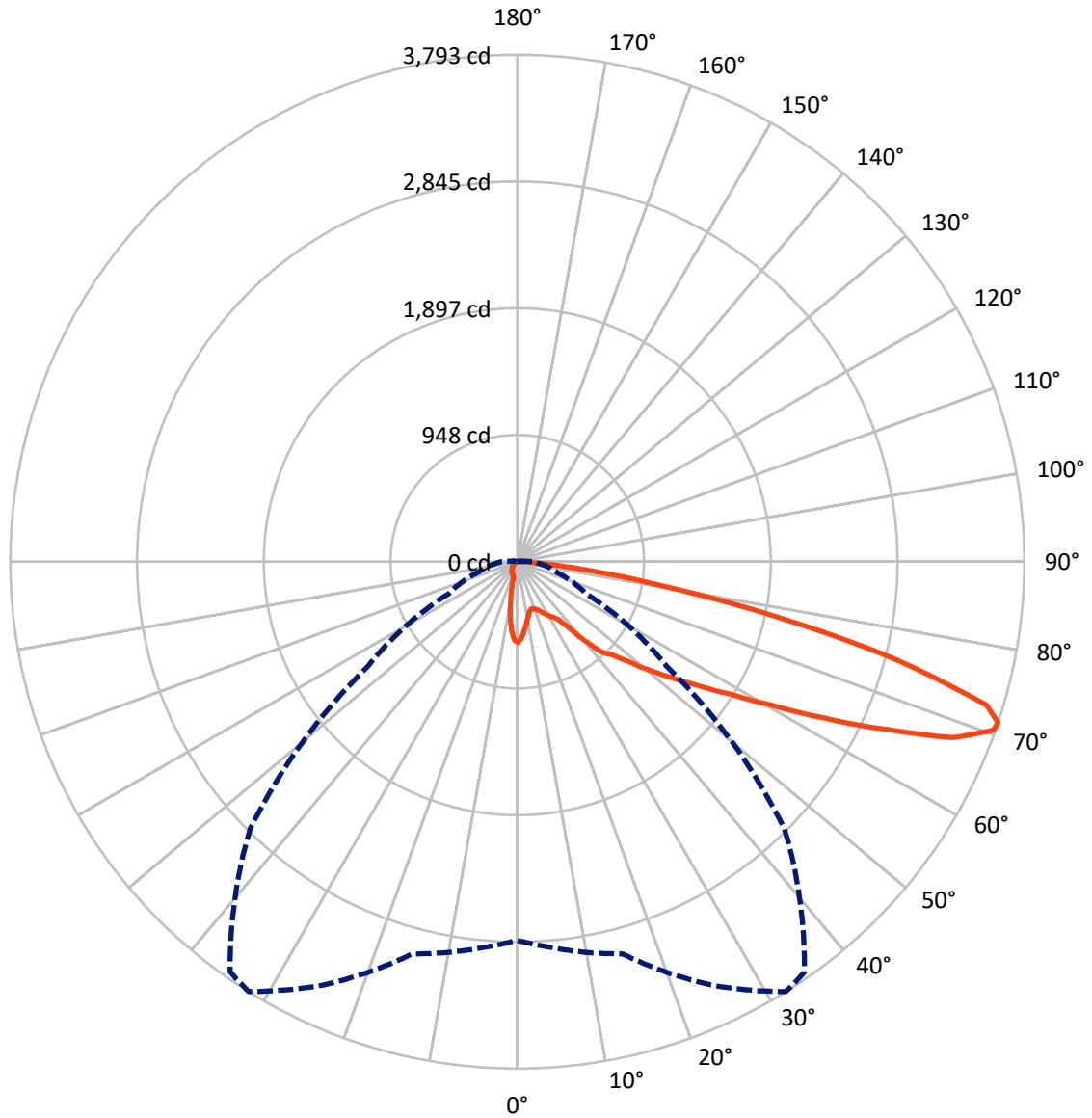
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 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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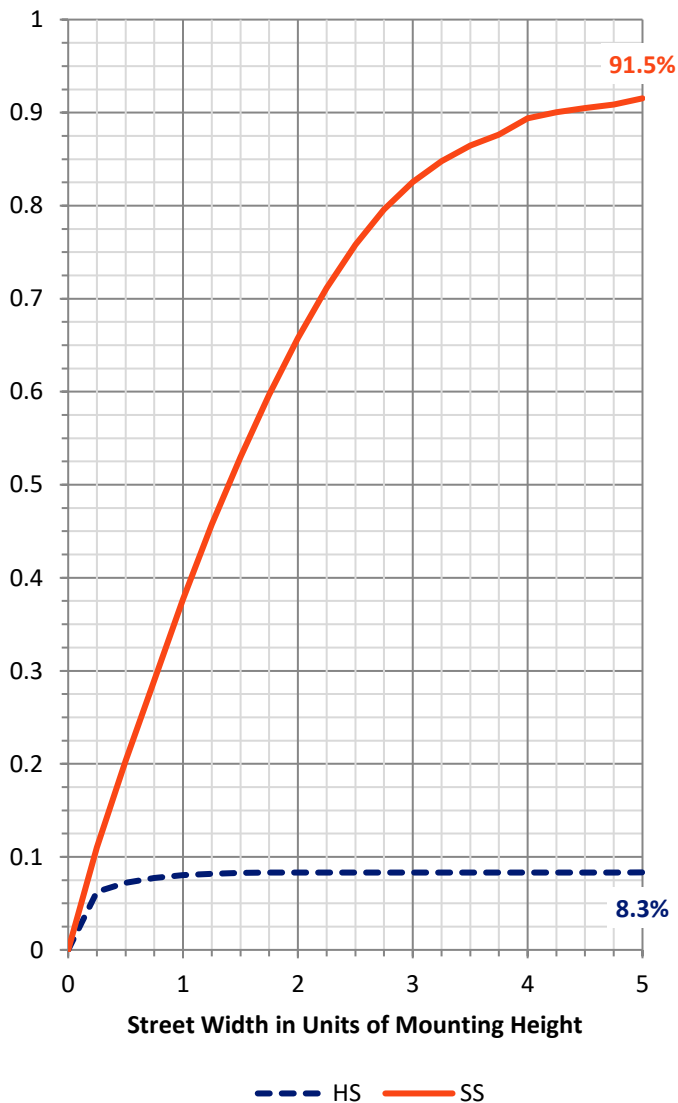
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	315.4	0.0	315.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	3450.6	0.0	3450.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	3766.0	0.0	3766.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.2	1.3
10°-20°	106.9	2.8
20°-30°	166.3	4.4
30°-40°	277.0	7.4
40°-50°	515.3	13.7
50°-60°	827.3	22.0
60°-70°	1112.8	29.5
70°-80°	660.2	17.5
80°-90°	51.0	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°	3766.0	100.0
0°-180°	3766.0	100.0



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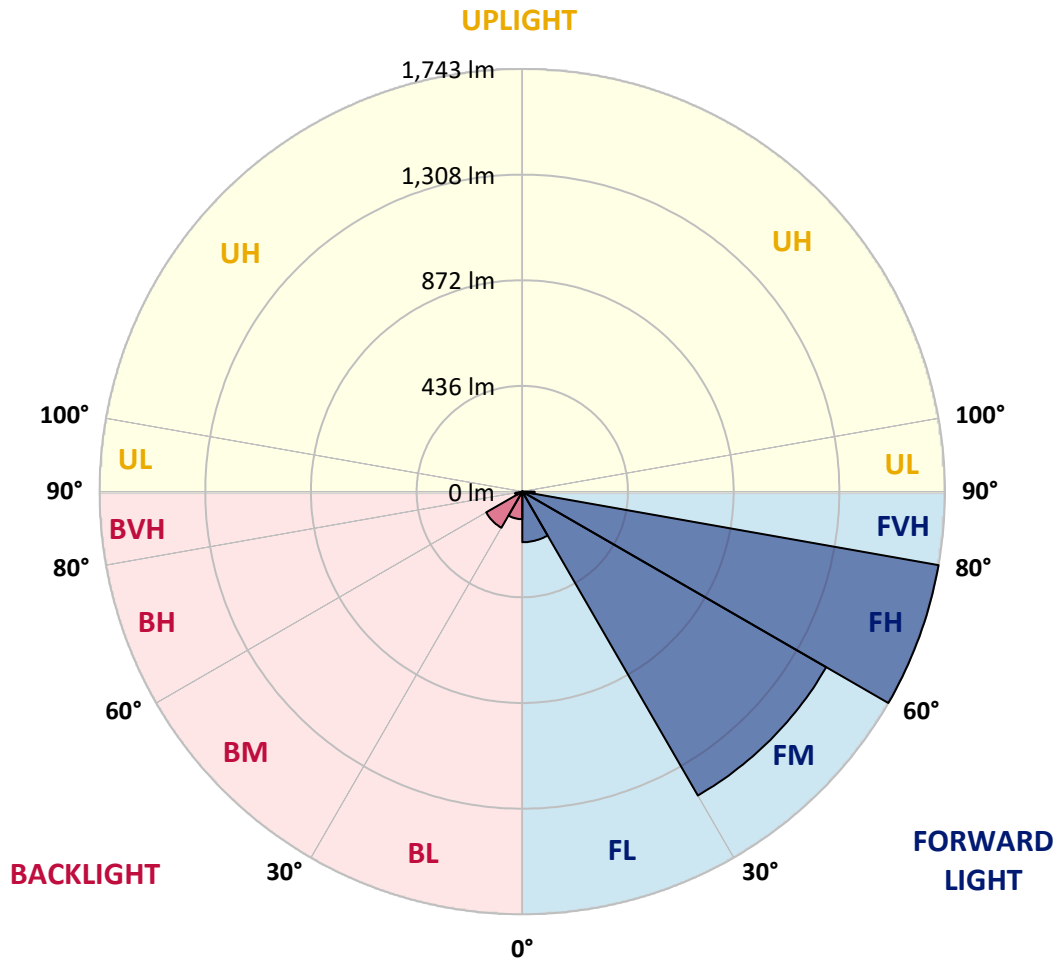
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	208.7	5.5			
FM (30°-60°)	1447.5	38.4			
FH (60°-80°)	1743.5	46.3			G1/1800
FVH (80°-90°)	50.8	1.3			G1/100
BL (0°-30°)	113.7	3.0	B1/500		
BM (30°-60°)	172.1	4.6	B0/220		
BH (60°-80°)	29.5	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: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	605.6	605.6	605.6	605.6	605.6	605.6	605.6	605.6	605.6	605.6	605.6
2.5°	561.7	567.5	566.6	568.6	573.5	575.6	581.1	587.1	595.5	601.3	605.1
5°	503.0	507.3	507.9	518.0	523.0	528.4	544.6	562.3	581.9	597.5	607.9
7.5°	440.3	442.6	447.2	460.5	472.9	478.4	503.0	533.6	564.6	593.8	612.6
10°	388.5	391.1	399.5	413.7	425.2	432.5	466.6	505.0	548.4	591.8	619.2
12.5°	359.0	360.5	363.7	376.4	391.1	398.9	435.7	479.6	535.4	592.6	630.5
15°	357.0	356.4	352.7	357.9	371.2	379.3	415.1	462.2	523.8	595.5	643.8
17.5°	367.7	366.3	357.3	357.3	368.3	374.9	406.5	453.0	518.0	602.2	662.6
20°	384.2	381.9	367.1	366.0	376.7	383.6	411.7	453.6	519.2	614.6	687.7
22.5°	405.0	402.4	380.1	380.7	392.3	399.2	426.7	464.0	526.4	629.9	714.6
25°	432.2	429.3	403.0	401.8	414.0	420.0	448.9	482.5	536.5	649.0	749.9
27.5°	468.3	462.2	430.7	429.0	442.0	449.8	475.8	507.3	554.5	675.3	797.3
30°	498.1	491.4	461.4	456.8	470.6	476.7	503.6	540.9	589.7	721.3	862.9
32.5°	537.1	527.3	492.0	479.9	494.6	502.4	543.8	603.3	642.1	769.8	941.0
35°	625.0	618.9	575.9	533.4	532.5	542.3	603.0	666.3	695.8	845.6	1047.4
37.5°	750.8	746.4	700.7	643.8	627.3	622.7	675.0	735.7	781.7	949.6	1171.1
40°	896.7	886.6	844.7	796.4	775.0	761.4	760.0	838.9	893.8	1091.0	1300.0
42.5°	1001.4	982.9	932.0	928.5	923.9	909.7	868.7	989.8	1038.7	1243.1	1437.9
45°	1111.2	1083.2	1007.5	994.5	992.7	991.8	1032.9	1168.5	1196.5	1407.8	1579.6
47.5°	1196.5	1174.3	1112.1	1106.3	1113.6	1133.2	1250.0	1358.1	1352.3	1554.7	1698.4
50°	1310.1	1293.4	1224.3	1235.3	1272.5	1304.6	1494.9	1564.8	1480.4	1670.3	1784.8
52.5°	1444.3	1413.3	1349.2	1378.9	1436.2	1489.7	1754.7	1745.8	1570.3	1757.3	1849.3
55°	1560.5	1538.5	1516.5	1547.5	1633.0	1699.8	1989.5	1881.4	1635.6	1827.3	1877.6
57.5°	1757.1	1751.9	1729.3	1760.8	1864.6	1934.0	2199.6	1986.6	1677.6	1863.7	1844.4
60°	2047.9	2039.5	1997.6	2037.8	2173.0	2282.0	2393.3	2081.1	1687.1	1849.6	1748.7
62.5°	2397.7	2369.0	2333.2	2392.5	2578.1	2626.0	2575.7	2137.2	1651.5	1736.8	1518.0
65°	2724.3	2694.8	2695.7	2820.6	3022.7	3055.3	2788.5	2128.8	1547.5	1454.4	1119.6
67.5°	2974.4	2969.5	3004.7	3248.4	3512.7	3490.1	2978.7	2003.4	1239.0	942.7	594.9
70°	2987.1	2996.6	3097.8	3509.2	3777.5	3741.6	2962.5	1628.4	772.4	433.6	234.4
71°	2833.3	2897.5	3037.4	3501.1	3793.1	3746.5	2826.1	1363.9	566.6	302.4	169.1
72.5°	2414.4	2448.3	2750.6	3295.0	3669.6	3570.2	2480.1	956.0	362.8	185.0	97.1
75°	1329.8	1413.0	1842.0	2585.0	2935.1	2847.8	1616.3	454.2	181.0	101.2	40.2
77.5°	633.1	616.9	898.8	1537.4	1990.1	1985.4	814.4	201.8	105.5	68.5	20.2
80°	181.0	203.5	344.0	730.8	1104.9	1117.0	312.8	97.4	73.1	53.5	10.4
82.5°	54.6	55.8	126.3	323.2	549.5	518.0	117.4	49.7	52.6	42.5	6.1
85°	9.5	11.9	37.3	113.9	209.6	159.0	29.5	23.7	34.7	28.0	3.5
87.5°	0.6	0.9	12.4	13.0	18.5	10.7	5.2	3.5	7.5	7.5	2.0
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°	605.6	605.6	605.6	605.6	605.6	605.6	605.6	605.6	605.6	605.6	605.6
2.5°	607.7	609.4	608.2	605.6	601.3	596.1	589.2	583.4	578.5	575.9	579.0
5°	611.4	613.7	607.9	594.9	575.3	553.9	529.6	510.8	496.1	491.4	489.7
7.5°	617.2	618.6	603.0	574.1	532.5	481.9	437.7	400.4	371.5	362.8	350.1
10°	624.7	623.8	594.4	540.6	467.4	391.4	322.9	272.0	233.6	219.7	218.5
12.5°	636.3	631.6	583.4	494.9	390.0	290.5	205.8	161.0	136.7	128.6	126.9
15°	650.7	639.7	566.0	441.4	298.6	187.6	126.9	113.3	110.1	109.6	109.0
17.5°	667.8	650.4	543.2	375.8	209.9	121.7	106.1	105.8	106.1	105.5	105.2
20°	690.9	661.7	516.0	298.0	138.8	102.6	101.2	101.2	101.5	101.2	101.2
22.5°	715.5	675.0	482.5	227.5	104.6	97.4	97.1	97.7	98.3	98.0	98.0
25°	745.8	692.4	438.3	155.8	93.7	93.1	93.4	94.5	95.7	96.0	95.7
27.5°	789.8	713.7	390.8	107.3	85.9	86.4	89.3	92.2	94.0	94.2	94.2
30°	839.2	737.5	329.0	87.0	79.5	79.5	83.0	88.5	92.2	92.8	93.1
32.5°	902.8	764.9	260.5	78.3	73.4	72.8	76.0	82.7	89.6	91.6	91.6
35°	981.4	797.3	193.7	72.8	69.1	67.6	69.4	74.9	83.8	89.6	90.2
37.5°	1073.7	827.9	141.7	67.9	65.0	63.0	64.2	68.5	75.7	84.4	86.7
40°	1158.9	855.1	105.8	63.9	61.0	59.6	60.4	62.4	68.5	76.6	78.1
42.5°	1252.0	876.2	84.1	59.6	56.9	56.4	56.4	57.2	61.3	65.9	66.2
45°	1344.8	883.7	70.5	54.3	52.6	53.2	52.9	52.3	54.1	53.5	53.5
47.5°	1411.0	874.8	58.4	49.4	49.4	50.3	48.9	46.8	46.0	42.5	42.8
50°	1456.4	842.1	48.0	43.7	46.0	47.1	44.2	41.0	37.9	34.1	33.2
52.5°	1475.2	784.0	39.3	36.1	40.8	42.2	38.7	35.0	30.1	26.9	26.0
55°	1463.1	712.3	32.7	29.5	34.4	36.1	32.7	28.3	22.8	19.4	18.8
57.5°	1409.6	626.7	27.8	23.4	27.5	28.6	26.3	21.7	16.2	12.7	12.7
60°	1317.1	538.3	22.5	18.5	20.5	22.3	19.9	15.6	11.0	7.8	7.2
62.5°	1129.5	437.1	18.2	14.5	14.5	15.9	13.9	11.3	6.9	4.0	3.8
65°	815.5	299.8	14.5	10.7	10.4	10.4	8.7	7.5	4.0	1.7	1.2
67.5°	443.2	169.1	11.6	8.1	7.2	6.9	5.5	4.3	1.7	0.3	0.0
70°	174.3	65.0	9.0	5.5	4.6	4.3	2.9	2.0	1.2	0.0	0.0
71°	118.2	44.8	7.8	4.6	3.8	3.2	2.3	1.7	0.9	0.0	0.0
72.5°	67.6	27.8	6.1	3.5	2.9	2.3	1.7	1.2	0.9	0.0	0.0
75°	29.5	14.2	3.8	2.6	2.0	1.4	1.2	0.9	0.3	0.0	0.0
77.5°	15.0	7.8	2.6	2.0	1.2	0.9	0.6	0.3	0.0	0.0	0.0
80°	8.4	4.0	1.7	1.2	0.9	0.6	0.3	0.3	0.0	0.0	0.0
82.5°	4.6	2.3	0.9	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.9	1.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	0.6	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)