

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: P450360

Luminaire Tested: **GALN-SA1A-827-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450360
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-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 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: 2449 lumens
Efficiency: N/A
Efficacy: 74.2 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

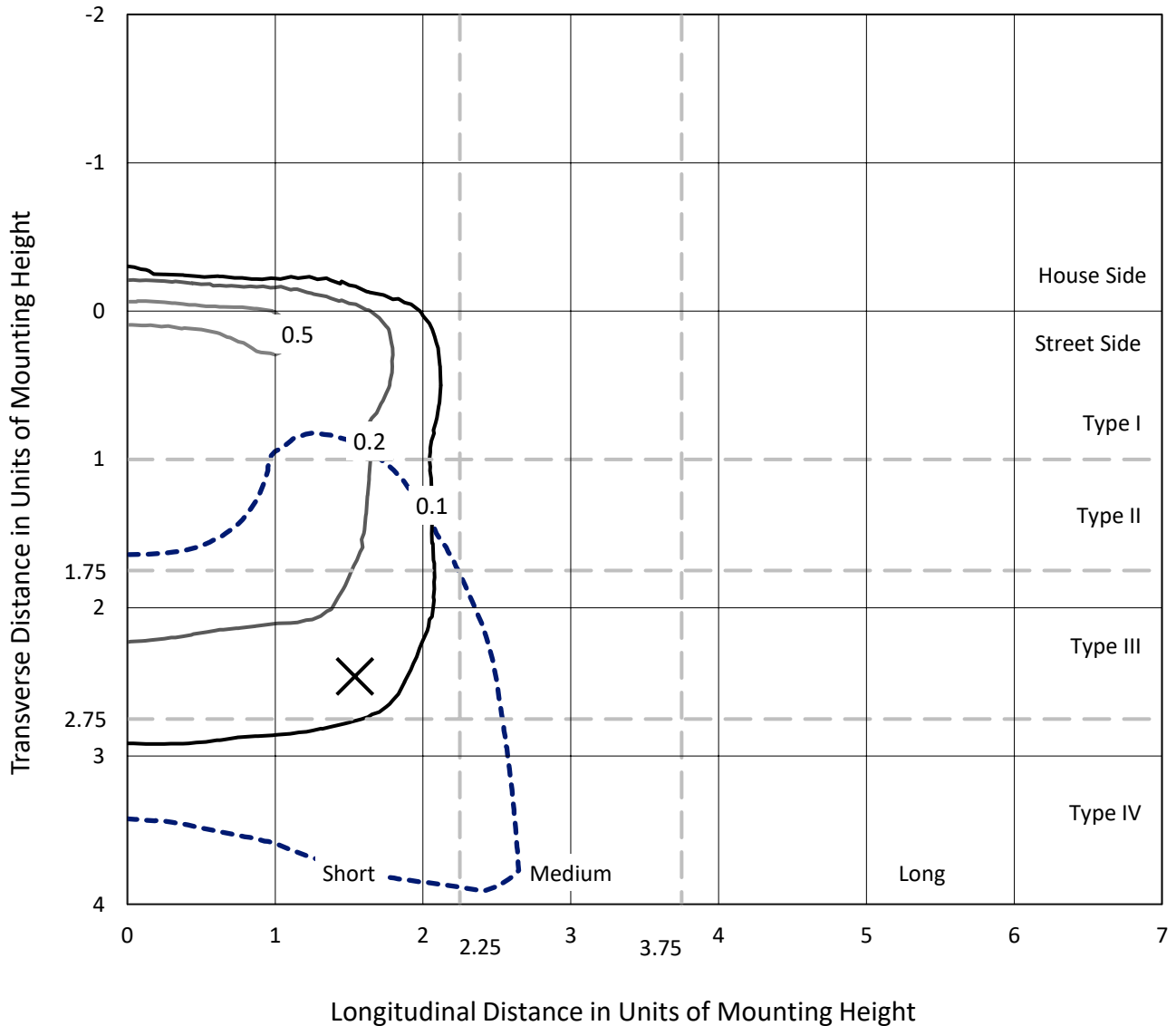
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

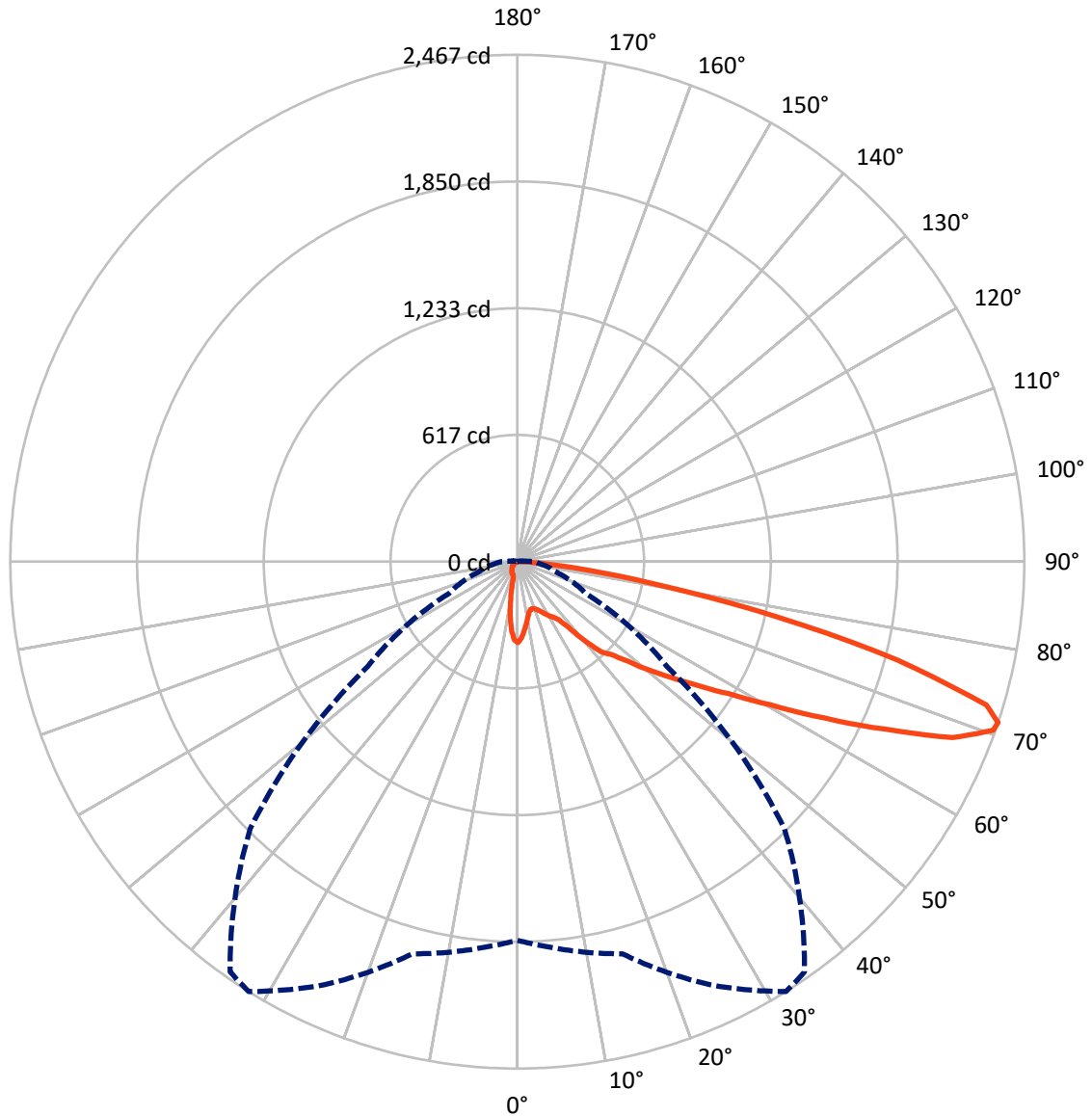
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 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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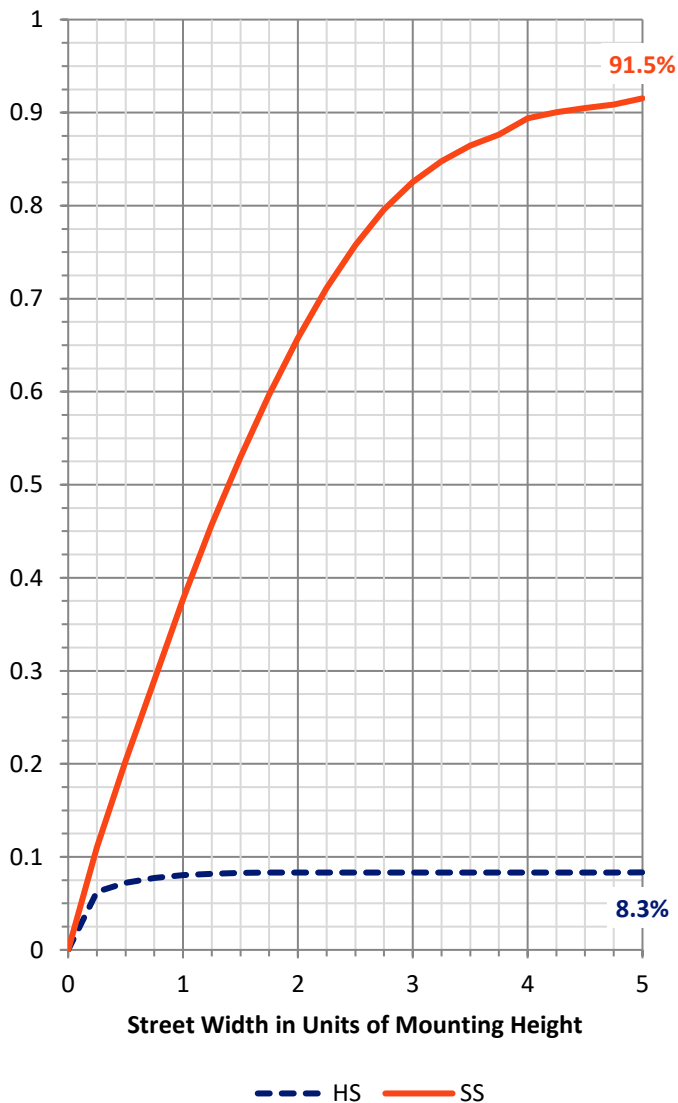
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	205.1	0.0	205.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	2243.9	0.0	2243.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	2449.0	0.0	2449.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.0	1.3
10°-20°	69.5	2.8
20°-30°	108.1	4.4
30°-40°	180.1	7.4
40°-50°	335.1	13.7
50°-60°	538.0	22.0
60°-70°	723.6	29.5
70°-80°	429.3	17.5
80°-90°	33.2	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°	2449.0	100.0
0°-180°	2449.0	100.0

Coefficient of Utilization

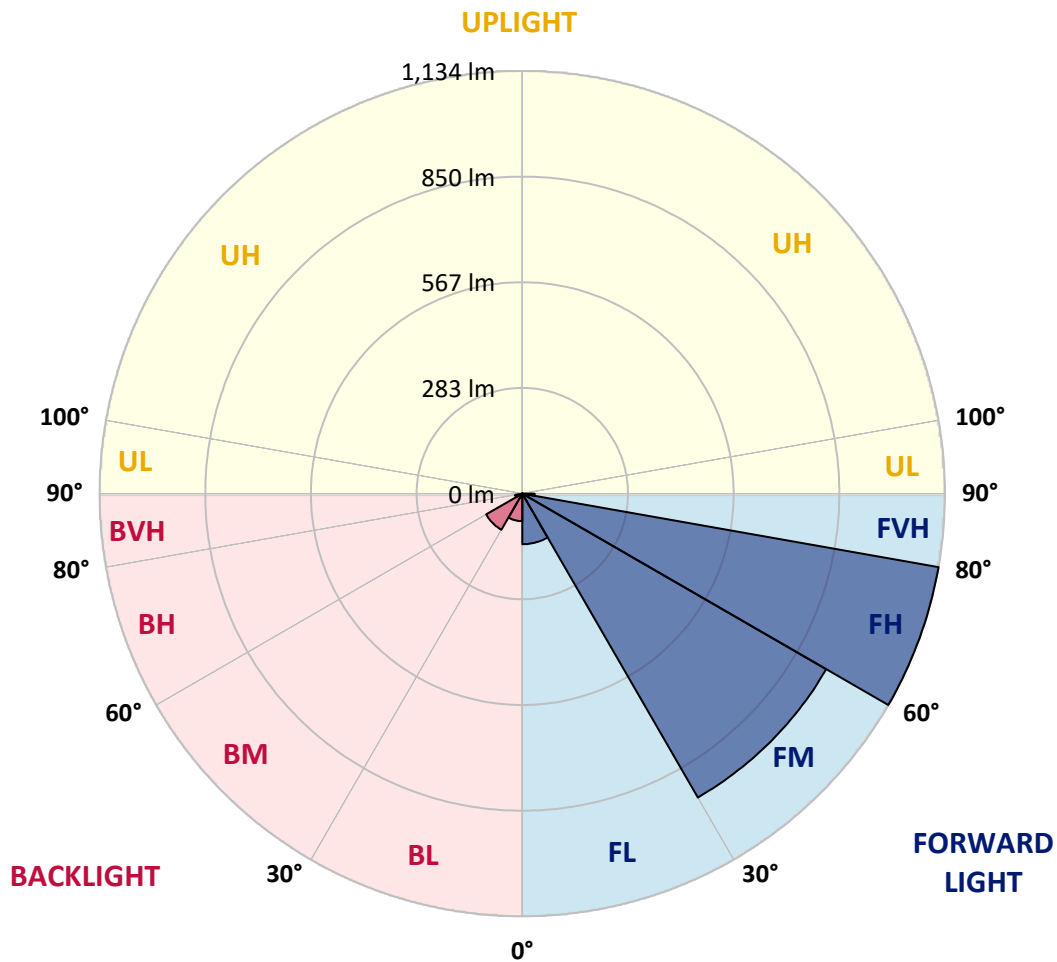


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	135.7	5.5			
FM (30°-60°)	941.3	38.4			
FH (60°-80°)	1133.8	46.3			G1/1800
FVH (80°-90°)	33.1	1.3			G1/100
BL (0°-30°)	73.9	3.0	B0/110		
BM (30°-60°)	111.9	4.6	B0/220		
BH (60°-80°)	19.2	0.8	B0/110		G0/110
BVH (80°-90°)	0.1	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°	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8
2.5°	365.3	369.0	368.5	369.8	373.0	374.3	377.9	381.8	387.3	391.0	393.5
5°	327.1	329.9	330.3	336.9	340.1	343.6	354.2	365.6	378.4	388.6	395.3
7.5°	286.3	287.8	290.8	299.5	307.6	311.1	327.1	347.0	367.1	386.1	398.3
10°	252.7	254.3	259.8	269.0	276.5	281.2	303.4	328.4	356.6	384.8	402.7
12.5°	233.5	234.4	236.5	244.8	254.3	259.4	283.3	311.9	348.2	385.4	410.0
15°	232.2	231.8	229.3	232.7	241.4	246.6	270.0	300.6	340.6	387.3	418.7
17.5°	239.1	238.2	232.4	232.4	239.5	243.8	264.3	294.6	336.9	391.6	430.9
20°	249.8	248.3	238.7	238.0	244.9	249.5	267.7	295.0	337.6	399.7	447.2
22.5°	263.4	261.7	247.2	247.6	255.1	259.6	277.5	301.7	342.3	409.6	464.7
25°	281.0	279.2	262.1	261.3	269.2	273.1	291.9	313.8	348.9	422.0	487.6
27.5°	304.5	300.6	280.1	279.0	287.4	292.5	309.4	329.9	360.6	439.1	518.5
30°	323.9	319.6	300.0	297.0	306.0	310.0	327.5	351.7	383.5	469.0	561.1
32.5°	349.3	342.9	320.0	312.1	321.6	326.7	353.6	392.3	417.5	500.6	611.9
35°	406.4	402.5	374.5	346.8	346.3	352.7	392.1	433.3	452.5	549.9	681.1
37.5°	488.2	485.4	455.7	418.7	407.9	404.9	439.0	478.4	508.3	617.5	761.5
40°	583.1	576.6	549.3	517.9	504.0	495.2	494.2	545.5	581.3	709.5	845.4
42.5°	651.2	639.2	606.1	603.8	600.8	591.6	564.9	643.7	675.4	808.4	935.1
45°	722.6	704.4	655.1	646.7	645.6	645.0	671.7	759.9	778.1	915.5	1027.2
47.5°	778.1	763.6	723.2	719.4	724.1	736.9	812.9	883.2	879.4	1011.0	1104.4
50°	852.0	841.1	796.1	803.3	827.5	848.4	972.1	1017.6	962.7	1086.2	1160.6
52.5°	939.2	919.1	877.3	896.7	933.9	968.7	1141.1	1135.3	1021.2	1142.8	1202.6
55°	1014.8	1000.5	986.2	1006.3	1062.0	1105.4	1293.7	1223.4	1063.6	1188.3	1221.0
57.5°	1142.6	1139.2	1124.6	1145.0	1212.5	1257.6	1430.4	1291.9	1090.9	1212.0	1199.4
60°	1331.7	1326.3	1299.0	1325.1	1413.1	1484.0	1556.4	1353.3	1097.1	1202.8	1137.1
62.5°	1559.2	1540.6	1517.3	1555.8	1676.5	1707.7	1675.0	1389.8	1074.0	1129.4	987.1
65°	1771.6	1752.4	1753.0	1834.2	1965.6	1986.9	1813.3	1384.4	1006.3	945.8	728.1
67.5°	1934.2	1931.0	1954.0	2112.4	2284.3	2269.6	1937.0	1302.8	805.7	613.0	386.9
70°	1942.5	1948.7	2014.5	2282.0	2456.5	2433.1	1926.5	1058.9	502.3	282.0	152.5
71°	1842.5	1884.2	1975.2	2276.7	2466.6	2436.3	1837.8	886.9	368.5	196.6	110.0
72.5°	1570.1	1592.1	1788.7	2142.7	2386.3	2321.7	1612.8	621.7	235.9	120.3	63.2
75°	864.8	918.9	1197.9	1681.0	1908.7	1851.9	1051.0	295.3	117.7	65.8	26.1
77.5°	411.7	401.2	584.5	999.7	1294.1	1291.1	529.6	131.2	68.6	44.6	13.2
80°	117.7	132.3	223.7	475.2	718.5	726.4	203.4	63.4	47.6	34.8	6.8
82.5°	35.5	36.3	82.2	210.2	357.4	336.9	76.3	32.3	34.2	27.6	3.9
85°	6.2	7.7	24.3	74.1	136.3	103.4	19.2	15.4	22.6	18.2	2.3
87.5°	0.4	0.6	8.1	8.5	12.0	7.0	3.4	2.3	4.9	4.9	1.3
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°	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8	393.8
2.5°	395.2	396.3	395.5	393.8	391.0	387.6	383.1	379.4	376.2	374.5	376.5
5°	397.6	399.1	395.3	386.9	374.1	360.2	344.4	332.2	322.6	319.6	318.5
7.5°	401.4	402.3	392.1	373.3	346.3	313.4	284.6	260.4	241.6	235.9	227.7
10°	406.2	405.7	386.5	351.5	304.0	254.5	210.0	176.9	151.9	142.9	142.1
12.5°	413.8	410.8	379.4	321.8	253.6	188.9	133.8	104.7	88.9	83.7	82.5
15°	423.2	416.0	368.1	287.1	194.2	122.0	82.5	73.7	71.6	71.2	70.9
17.5°	434.3	423.0	353.2	244.4	136.5	79.1	69.0	68.8	69.0	68.6	68.4
20°	449.3	430.3	335.6	193.8	90.2	66.7	65.8	65.8	66.0	65.8	65.8
22.5°	465.3	439.0	313.8	147.9	68.1	63.4	63.2	63.5	63.9	63.7	63.7
25°	485.0	450.2	285.0	101.3	60.9	60.5	60.7	61.5	62.2	62.4	62.2
27.5°	513.6	464.1	254.2	69.7	55.8	56.2	58.1	60.0	61.1	61.3	61.3
30°	545.7	479.6	213.9	56.6	51.7	51.7	54.0	57.5	60.0	60.3	60.5
32.5°	587.1	497.4	169.4	50.9	47.7	47.4	49.4	53.8	58.3	59.6	59.6
35°	638.2	518.5	126.0	47.4	44.9	44.0	45.1	48.7	54.5	58.3	58.7
37.5°	698.2	538.4	92.1	44.2	42.3	41.0	41.7	44.6	49.3	54.9	56.4
40°	753.6	556.1	68.8	41.5	39.7	38.7	39.3	40.6	44.6	49.8	50.8
42.5°	814.2	569.8	54.7	38.7	37.0	36.7	36.7	37.2	39.9	42.9	43.0
45°	874.5	574.7	45.9	35.3	34.2	34.6	34.4	34.0	35.2	34.8	34.8
47.5°	917.6	568.9	38.0	32.1	32.1	32.7	31.8	30.5	29.9	27.6	27.8
50°	947.1	547.6	31.2	28.4	29.9	30.6	28.8	26.7	24.6	22.2	21.6
52.5°	959.3	509.8	25.6	23.5	26.5	27.4	25.2	22.7	19.6	17.5	16.9
55°	951.4	463.2	21.2	19.2	22.4	23.5	21.2	18.4	14.9	12.6	12.2
57.5°	916.6	407.6	18.0	15.2	17.9	18.6	17.1	14.1	10.5	8.3	8.3
60°	856.5	350.0	14.7	12.0	13.3	14.5	13.0	10.2	7.1	5.1	4.7
62.5°	734.5	284.2	11.8	9.4	9.4	10.3	9.0	7.3	4.5	2.6	2.4
65°	530.3	194.9	9.4	7.0	6.8	6.8	5.6	4.9	2.6	1.1	0.8
67.5°	288.2	110.0	7.5	5.3	4.7	4.5	3.6	2.8	1.1	0.2	0.0
70°	113.4	42.3	5.8	3.6	3.0	2.8	1.9	1.3	0.8	0.0	0.0
71°	76.9	29.1	5.1	3.0	2.4	2.1	1.5	1.1	0.6	0.0	0.0
72.5°	44.0	18.0	3.9	2.3	1.9	1.5	1.1	0.8	0.6	0.0	0.0
75°	19.2	9.2	2.4	1.7	1.3	0.9	0.8	0.6	0.2	0.0	0.0
77.5°	9.8	5.1	1.7	1.3	0.8	0.6	0.4	0.2	0.0	0.0	0.0
80°	5.5	2.6	1.1	0.8	0.6	0.4	0.2	0.2	0.0	0.0	0.0
82.5°	3.0	1.5	0.6	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.9	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.4	0.0	0.0	0.0	0.0	0.2	0.2	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)