

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: P647717

Luminaire Tested: **GALN-SA1A-835-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647717
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-835-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2980.1 lumens
Efficiency: N/A
Efficacy: 90.3 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

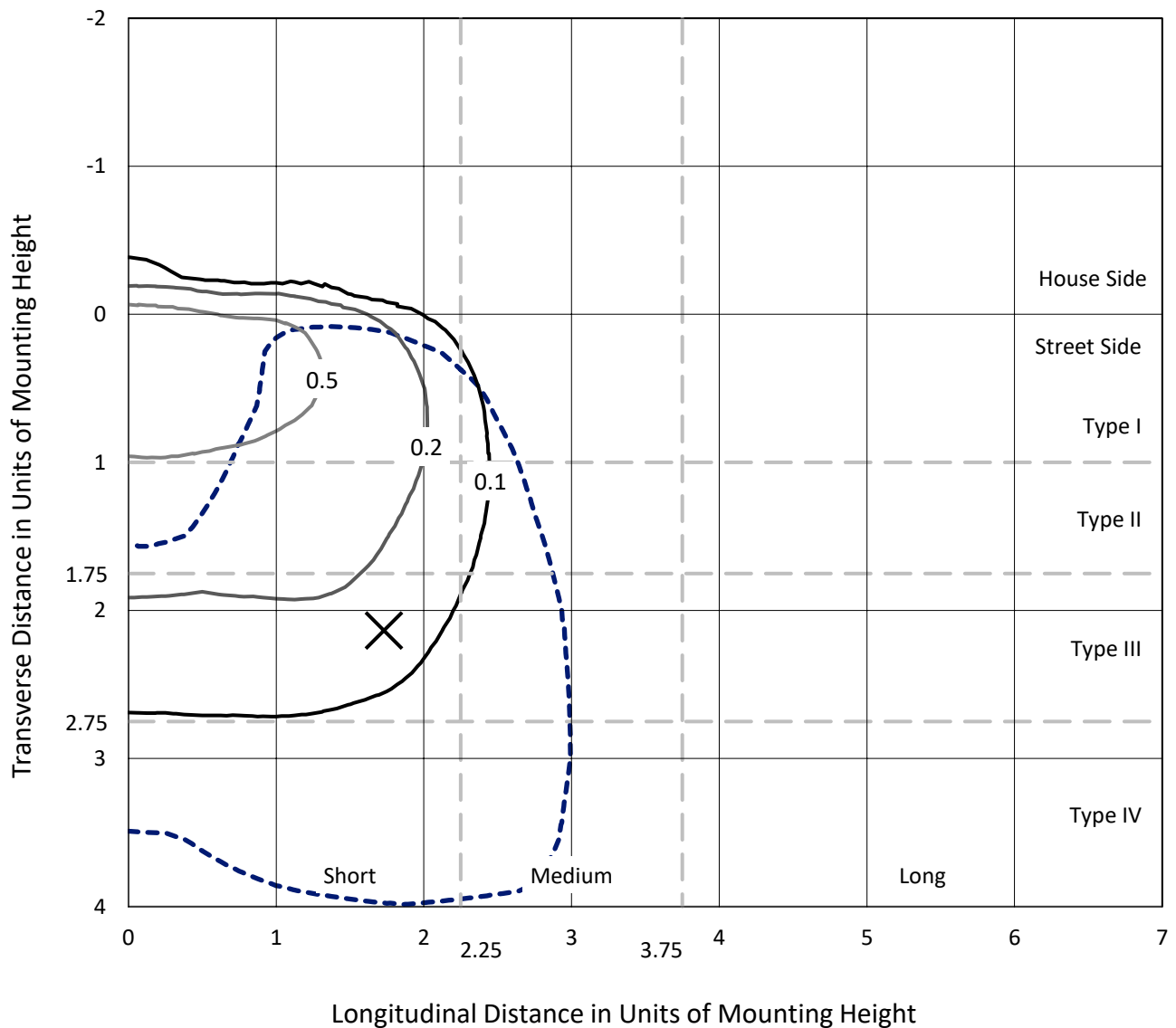
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

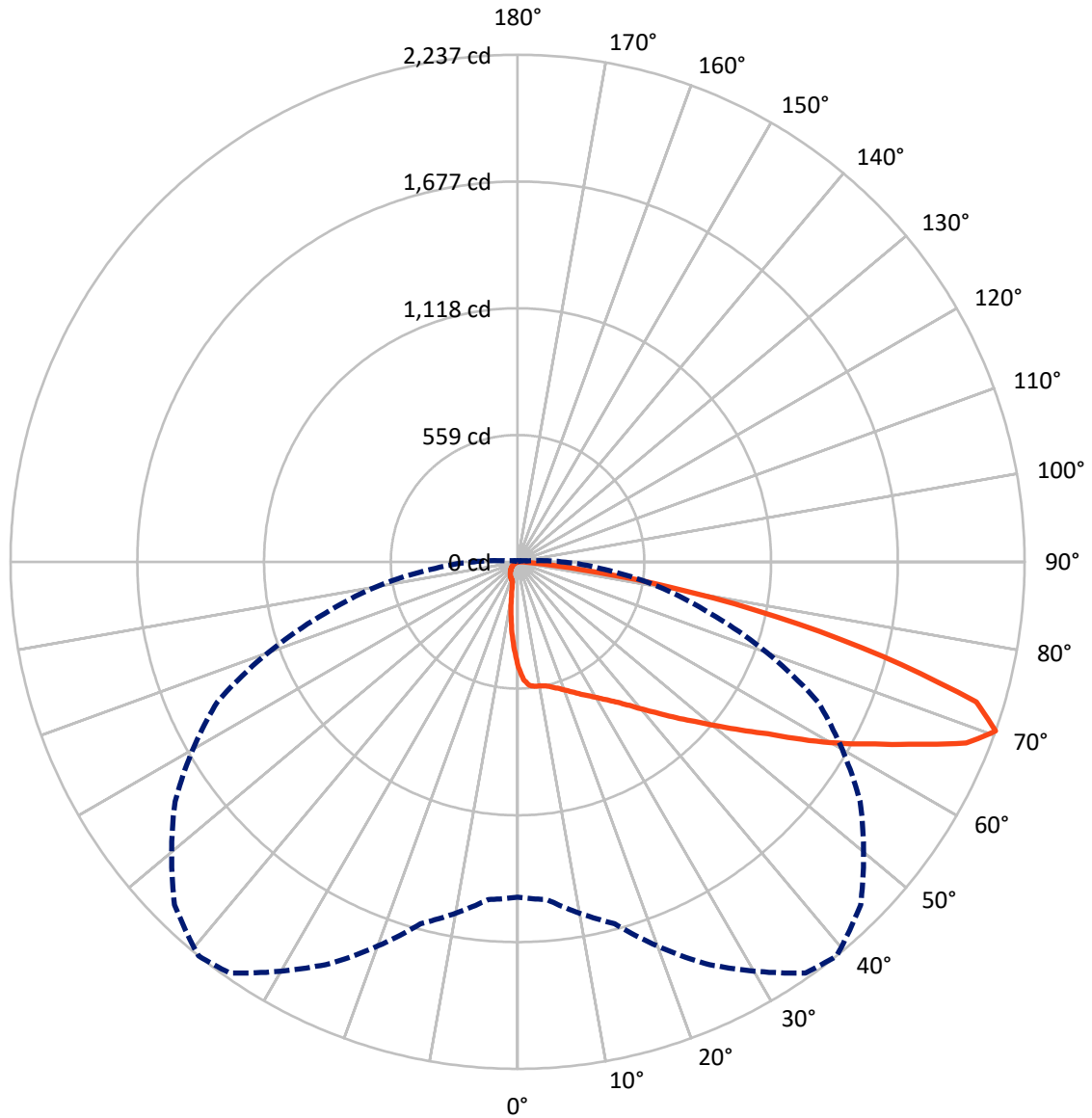
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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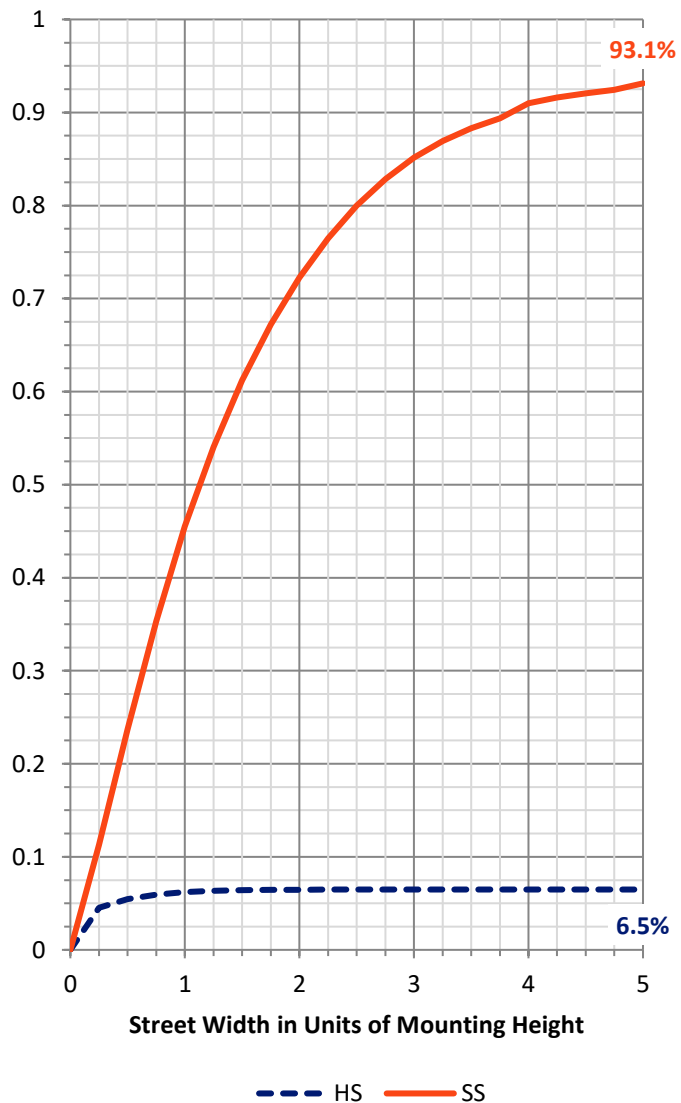
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	194.3	0.0	194.3
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	2785.8	0.0	2785.8
	% Fixture	93.5	0.0	93.5
Total	Lumens	2980.1	0.0	2980.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.7	1.3
10°-20°	103.1	3.5
20°-30°	172.7	5.8
30°-40°	267.8	9.0
40°-50°	424.4	14.2
50°-60°	622.0	20.9
60°-70°	797.3	26.8
70°-80°	501.0	16.8
80°-90°	52.2	1.8
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°	2980.1	100.0
0°-180°	2980.1	100.0

Coefficient of Utilization

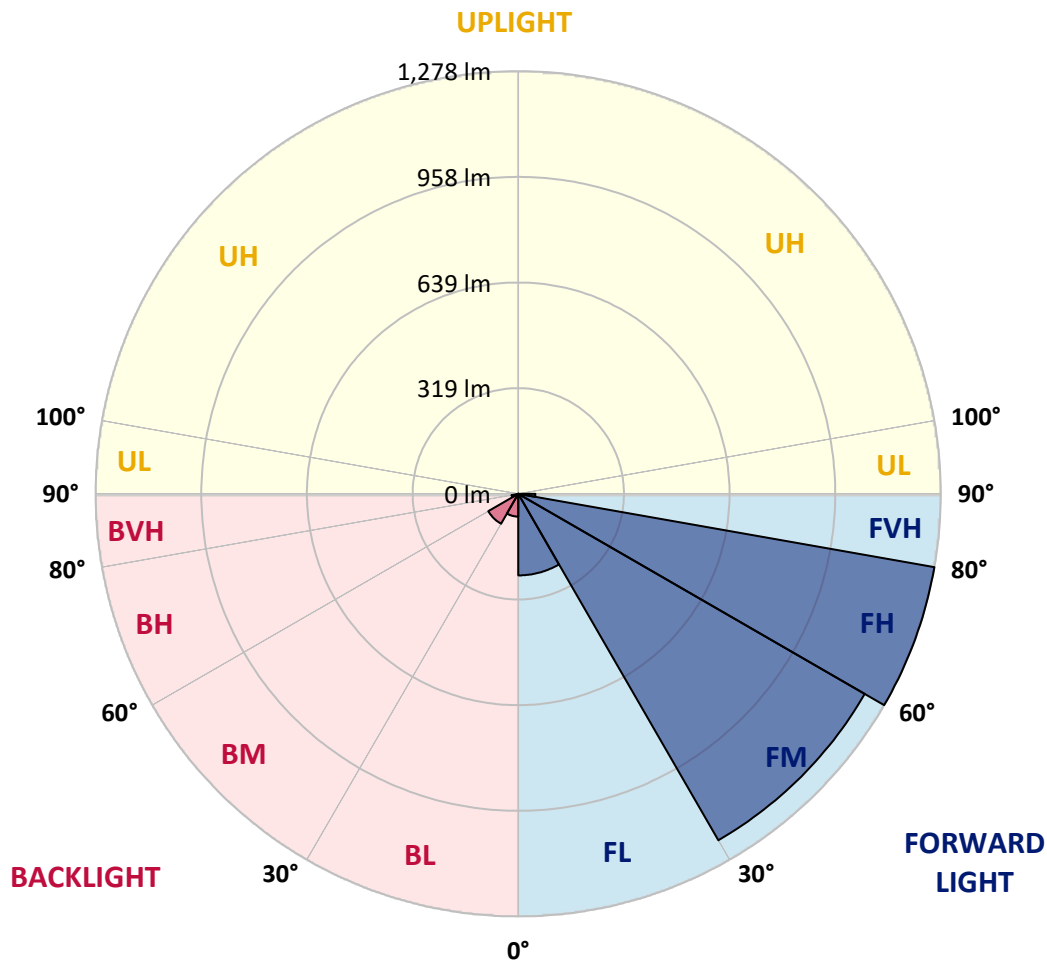


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	246.6	8.3			
FM (30°-60°)	1209.6	40.6			
FH (60°-80°)	1277.8	42.9			G1/1800
FVH (80°-90°)	51.8	1.7			G1/100
BL (0°-30°)	68.8	2.3	B0/110		
BM (30°-60°)	104.6	3.5	B0/220		
BH (60°-80°)	20.5	0.7	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°	39°	45°	55°	65°	75°	85°
0°	465.0	465.0	465.0	465.0	465.0	465.0	465.0	465.0	465.0	465.0	465.0
2.5°	537.3	535.5	533.1	530.2	522.3	520.9	516.1	505.8	493.6	483.7	469.8
5°	562.7	563.8	562.0	556.9	551.1	547.7	541.7	525.9	510.0	489.8	467.2
7.5°	568.5	570.6	568.3	563.5	557.9	554.3	549.5	535.9	517.5	494.5	463.4
10°	567.9	570.3	568.9	564.5	559.9	556.5	551.3	540.5	525.7	501.4	464.6
12.5°	566.9	570.1	569.9	567.8	563.9	561.3	558.1	548.5	534.7	511.7	471.2
15°	564.2	568.1	571.7	573.5	573.7	573.7	569.7	559.5	546.3	525.1	479.8
17.5°	565.3	569.9	579.0	584.1	587.7	587.3	583.2	572.1	557.5	538.9	488.8
20°	572.8	579.0	591.6	602.0	605.6	604.4	598.8	585.9	569.3	550.7	497.7
22.5°	590.9	596.6	612.4	624.6	627.2	624.0	616.0	598.6	583.6	563.5	508.2
25°	618.2	624.8	639.4	648.6	648.6	646.8	635.6	615.2	599.5	581.4	522.1
27.5°	651.2	656.9	671.3	679.5	674.6	669.5	658.3	633.6	618.6	603.8	538.7
30°	684.7	688.3	703.5	707.1	702.1	695.5	683.5	658.8	645.7	634.2	562.7
32.5°	716.3	724.1	736.7	735.9	729.1	725.9	715.0	688.6	681.3	680.0	596.3
35°	748.0	754.0	765.1	768.0	762.0	761.4	753.4	733.9	734.1	742.0	648.9
37.5°	775.2	780.6	793.8	800.0	801.2	804.2	801.0	788.2	806.4	827.9	718.3
40°	798.0	805.6	822.5	833.3	845.7	856.7	857.3	860.1	896.8	933.6	809.1
42.5°	815.9	826.5	850.9	870.9	899.4	913.4	924.6	940.0	1001.7	1056.7	916.0
45°	839.1	851.3	881.7	913.1	957.6	980.6	996.3	1037.6	1125.0	1200.1	1025.7
47.5°	877.5	883.9	915.0	960.8	1019.3	1052.1	1082.6	1145.1	1257.4	1324.7	1117.0
50°	927.0	931.2	954.6	1018.3	1094.0	1137.2	1192.7	1266.2	1394.8	1428.0	1168.7
52.5°	981.6	983.1	1000.7	1081.6	1177.7	1232.2	1294.3	1385.0	1506.7	1501.7	1202.9
55°	1045.1	1043.1	1058.1	1150.3	1276.8	1339.1	1411.4	1506.6	1603.9	1554.0	1222.6
57.5°	1117.8	1112.4	1127.1	1241.4	1403.8	1478.3	1551.8	1611.5	1679.1	1597.9	1232.0
60°	1193.9	1183.1	1200.6	1343.7	1553.4	1624.1	1685.2	1701.2	1758.5	1632.7	1215.8
62.5°	1254.6	1254.8	1287.3	1452.7	1707.2	1769.1	1801.5	1815.9	1826.7	1625.1	1130.4
65°	1349.3	1352.6	1404.4	1603.9	1885.2	1938.9	1961.1	1914.3	1829.7	1530.5	1002.3
67.5°	1447.1	1457.2	1552.2	1812.1	2090.9	2134.1	2105.5	1933.3	1748.0	1314.9	760.0
70°	1478.9	1495.7	1652.1	1955.5	2214.2	2236.6	2139.8	1844.6	1461.3	879.2	382.5
72.5°	1355.1	1382.4	1594.7	1903.2	2135.6	2116.1	1914.4	1547.0	929.0	333.8	116.7
75°	955.7	967.6	1325.3	1578.8	1717.6	1662.5	1456.3	997.3	382.1	93.7	40.1
77.5°	493.4	487.7	788.2	1047.6	1225.0	1167.9	953.6	516.2	144.8	39.1	24.8
80°	255.1	259.3	341.1	548.9	747.8	688.1	508.5	239.3	77.1	21.6	19.0
82.5°	143.0	134.2	196.1	239.7	349.7	274.1	195.0	169.4	33.7	13.0	18.0
85°	26.0	27.2	107.5	129.6	121.4	77.1	62.9	113.1	9.8	7.2	12.6
87.5°	0.4	0.4	20.8	37.3	23.6	10.8	19.8	16.2	2.0	2.8	2.2
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°	465.0	465.0	465.0	465.0	465.0	465.0	465.0	465.0	465.0	465.0	465.0
2.5°	462.8	455.2	441.0	427.0	409.1	394.5	384.7	374.5	364.1	364.9	367.3
5°	454.8	441.5	413.5	383.9	355.5	329.8	304.6	282.0	272.7	264.3	264.7
7.5°	446.8	428.1	387.1	340.6	297.6	253.9	222.3	196.2	182.4	172.0	169.0
10°	443.2	418.5	362.8	298.9	237.9	190.3	149.6	128.3	112.0	106.7	108.1
12.5°	444.7	413.7	341.1	261.4	188.6	132.6	104.1	93.3	89.7	89.1	88.7
15°	447.8	410.3	319.6	219.7	138.6	98.5	87.5	85.5	85.1	84.7	84.9
17.5°	451.8	407.3	296.8	180.6	106.3	86.1	82.9	81.9	81.7	81.7	81.7
20°	455.8	403.9	271.4	145.8	88.7	81.3	79.3	78.7	78.5	78.5	78.3
22.5°	460.4	400.9	245.5	114.6	81.7	77.9	76.1	75.7	75.5	75.3	75.3
25°	467.0	397.1	218.1	93.7	77.3	74.7	72.9	72.5	72.3	71.5	71.7
27.5°	475.8	394.3	189.9	80.9	73.3	70.7	69.5	68.9	68.5	67.9	68.1
30°	487.8	391.9	159.8	73.9	68.7	66.5	65.3	64.9	64.5	63.9	63.9
32.5°	508.6	392.9	128.2	68.3	64.5	61.9	60.7	60.3	59.9	59.3	59.3
35°	539.9	398.7	102.5	63.5	59.5	56.8	55.7	55.7	55.0	54.3	54.1
37.5°	590.9	413.5	82.3	58.9	54.7	52.3	50.9	50.5	49.9	48.6	48.5
40°	651.2	436.5	69.3	54.3	50.3	47.8	46.7	45.5	43.8	42.7	42.4
42.5°	726.9	460.2	60.1	49.6	46.0	43.8	42.4	40.5	38.1	36.4	36.3
45°	805.9	481.9	53.9	45.5	42.0	40.2	38.7	35.5	32.4	30.5	30.2
47.5°	864.7	485.9	48.9	41.4	38.7	36.9	34.6	30.6	26.6	24.8	24.2
50°	892.5	466.4	43.7	37.4	35.2	33.3	30.5	25.8	21.5	19.3	18.8
52.5°	902.3	432.8	39.5	33.8	31.9	29.4	26.0	20.8	16.8	14.6	14.4
55°	898.3	390.3	35.6	30.5	27.9	25.1	21.6	16.6	12.4	10.6	10.2
57.5°	877.4	336.2	31.9	27.0	23.8	21.1	17.2	12.4	8.4	6.8	6.6
60°	820.7	262.5	28.0	23.3	20.2	17.2	13.6	8.8	5.2	3.8	3.8
62.5°	724.9	194.9	24.4	19.4	17.0	13.8	9.6	5.6	2.8	2.0	1.8
65°	605.8	143.8	20.4	16.4	14.3	10.8	6.8	3.4	1.4	0.6	0.4
67.5°	422.7	88.7	17.0	13.4	11.6	7.8	4.2	1.4	0.6	0.0	0.0
70°	192.1	42.3	13.0	10.2	8.8	5.6	2.2	0.8	0.4	0.0	0.0
72.5°	59.7	22.2	9.2	7.4	6.0	3.6	1.2	0.6	0.4	0.0	0.0
75°	27.6	14.3	5.8	4.0	3.4	1.8	0.8	0.4	0.2	0.0	0.0
77.5°	20.6	11.0	3.4	2.2	1.8	1.2	0.6	0.4	0.2	0.0	0.0
80°	18.0	5.6	2.0	1.4	1.0	0.8	0.4	0.2	0.0	0.0	0.0
82.5°	16.2	2.8	1.2	0.8	0.6	0.4	0.2	0.2	0.0	0.0	0.0
85°	8.8	1.6	0.8	0.6	0.4	0.2	0.2	0.0	0.0	0.0	0.0
87.5°	1.6	0.8	0.6	0.4	0.4	0.2	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)