

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: P651698

Luminaire Tested: **GALN-SA1A-840-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651698
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2856.9 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

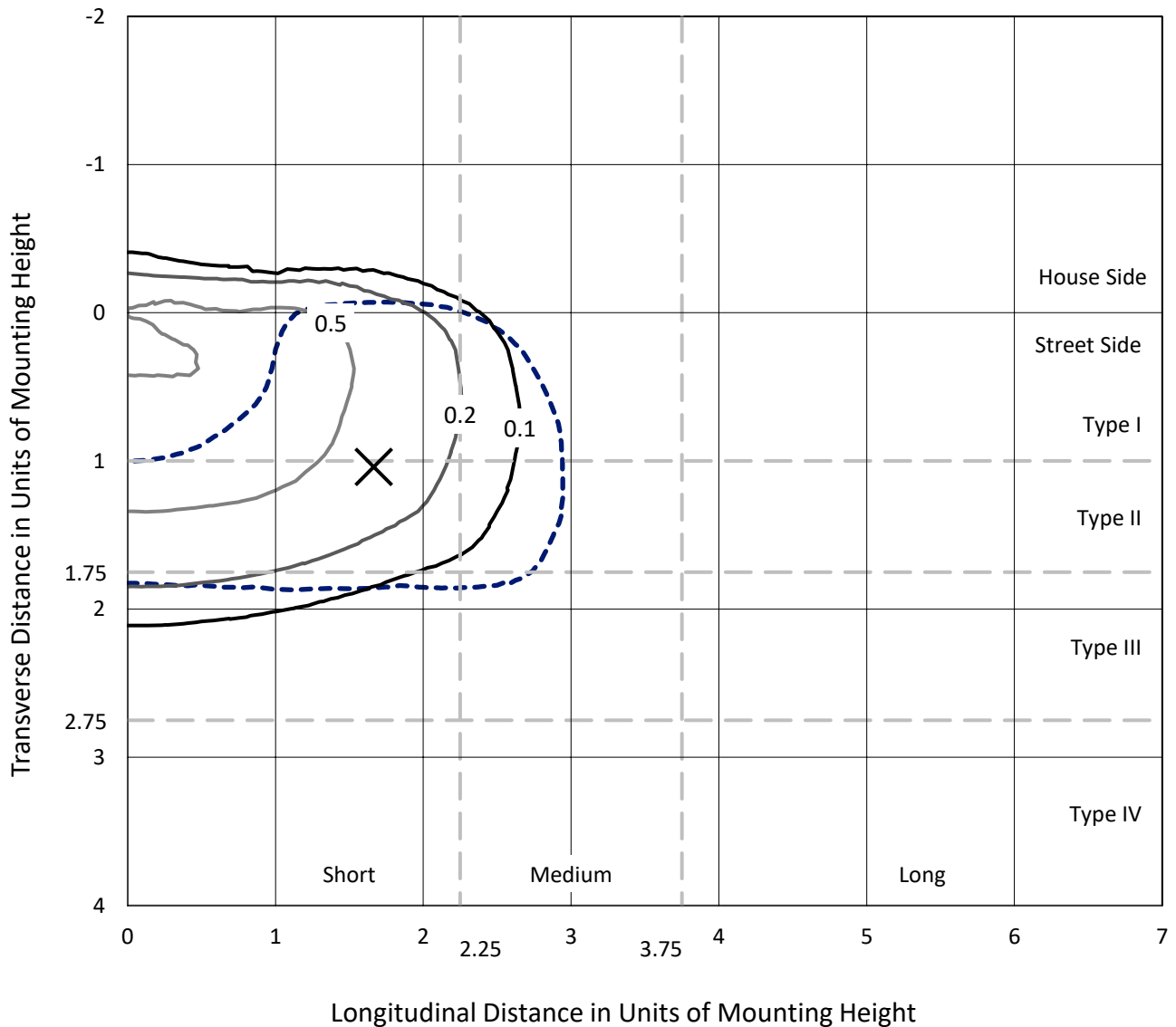
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

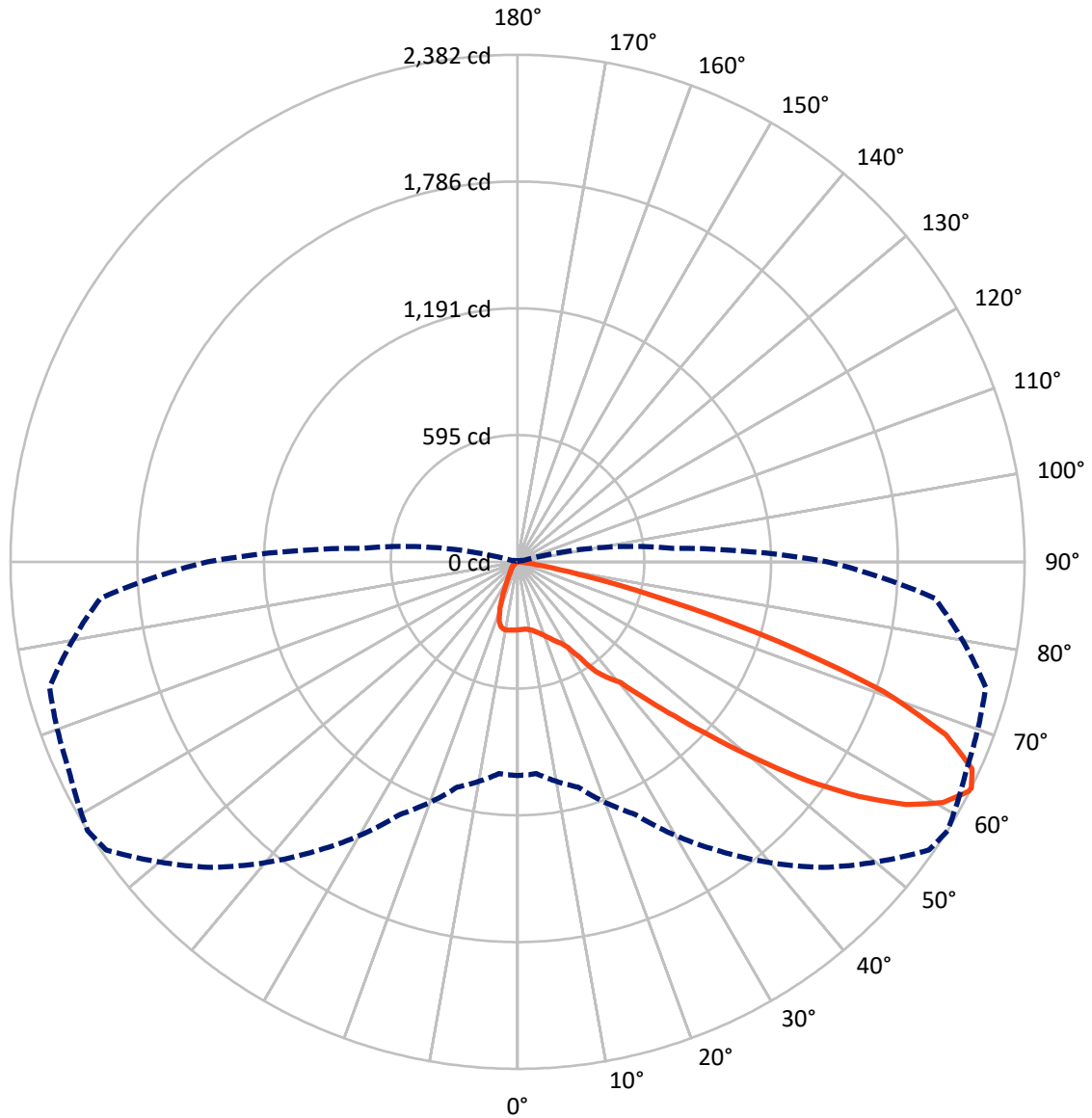
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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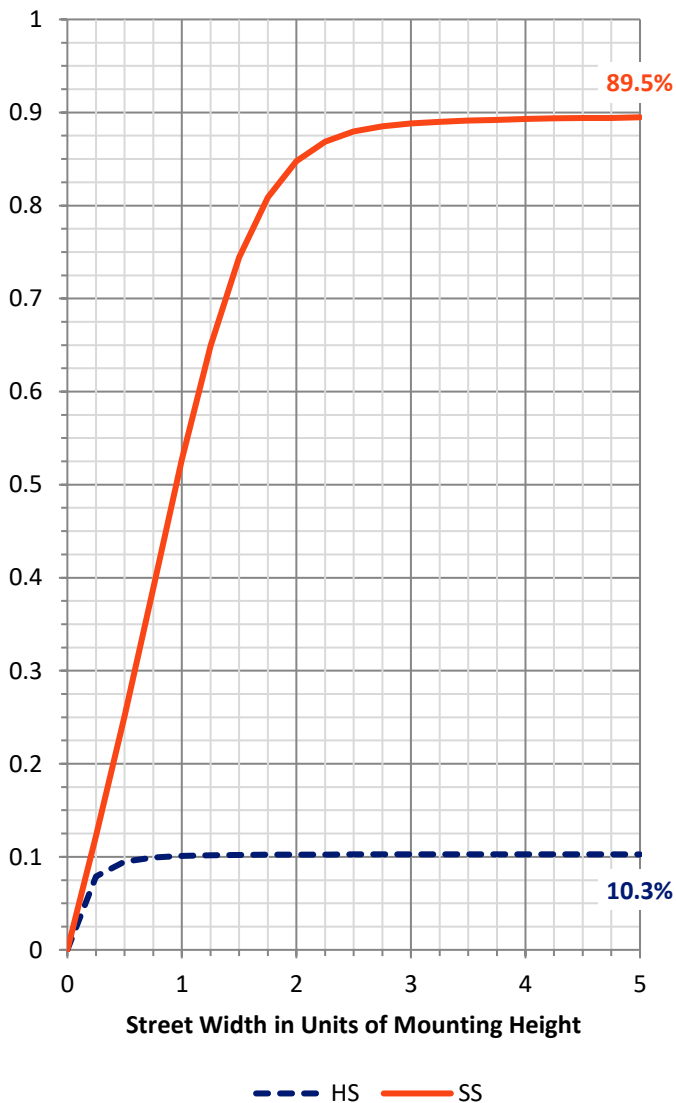
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	295.8	0.0	295.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	2561.1	0.0	2561.1
	% Fixture	89.6	0.0	89.6
Total	Lumens	2856.9	0.0	2856.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.9	1.0
10°-20°	81.5	2.9
20°-30°	141.5	5.0
30°-40°	260.1	9.1
40°-50°	489.6	17.1
50°-60°	837.4	29.3
60°-70°	801.8	28.1
70°-80°	204.5	7.2
80°-90°	10.5	0.4
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°	2856.9	100.0
0°-180°	2856.9	100.0

Coefficient of Utilization



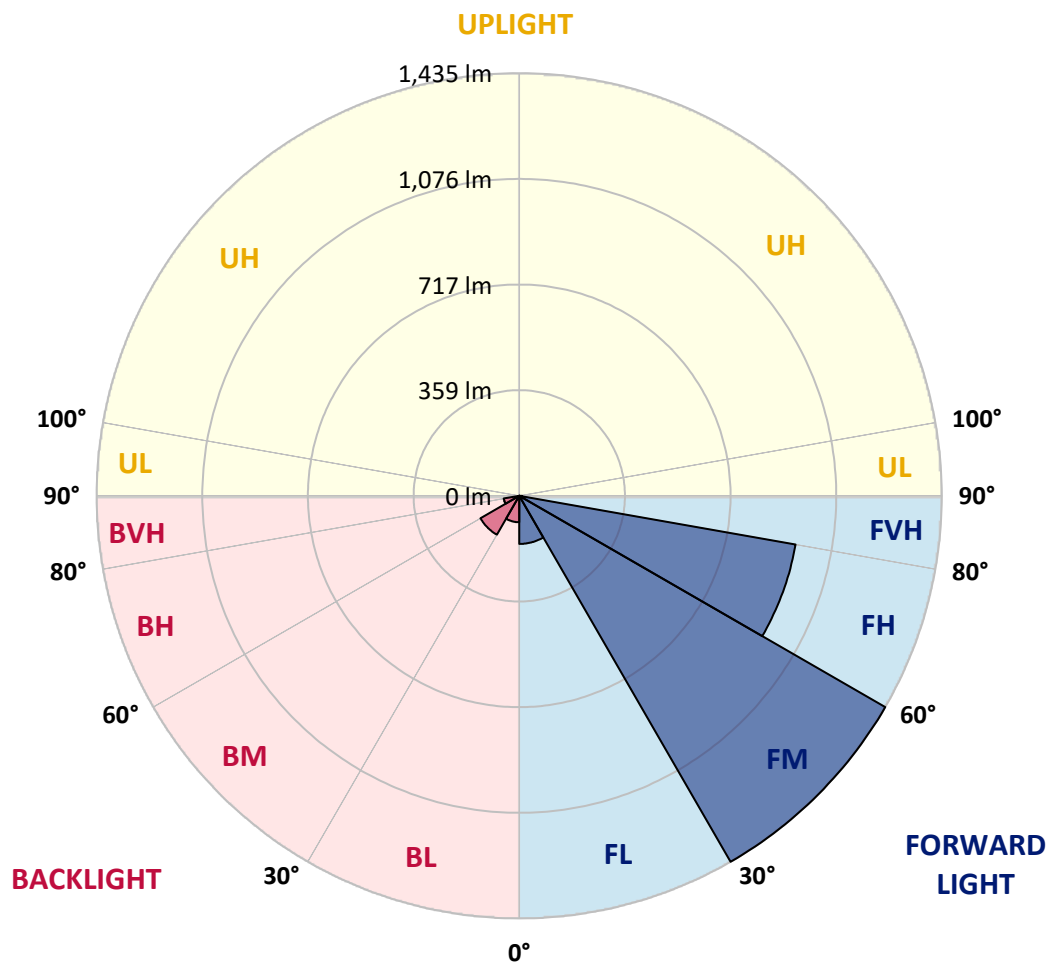
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	163.3	5.7			
FM (30°-60°)	1435.0	50.2			
FH (60°-80°)	952.8	33.3			G1/1800
FVH (80°-90°)	10.1	0.4			G1/100
BL (0°-30°)	89.7	3.1	B0/110		
BM (30°-60°)	152.1	5.3	B0/220		
BH (60°-80°)	53.5	1.9	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	319.8	319.8	319.8	319.8	319.8	319.8	319.8	319.8	319.8	319.8	319.8
2.5°	311.8	312.9	314.0	314.4	316.0	317.5	318.6	318.3	320.1	320.9	320.9
5°	299.4	299.4	302.2	304.8	309.1	313.4	317.5	318.3	321.6	324.5	325.6
7.5°	288.9	289.5	291.7	296.4	302.2	309.7	317.9	319.8	325.5	332.1	334.9
10°	283.9	284.3	287.1	292.1	299.4	309.7	321.1	324.8	333.4	344.0	347.8
12.5°	282.8	283.5	286.3	291.9	300.2	312.8	328.2	332.1	344.6	358.1	363.9
15°	284.8	285.2	288.0	294.0	303.3	318.2	337.7	343.0	357.9	373.6	381.1
17.5°	291.7	291.2	293.2	298.1	308.5	324.8	349.1	355.6	373.0	394.5	399.4
20°	320.9	318.2	316.4	312.1	316.2	334.2	362.9	372.3	393.8	415.8	419.2
22.5°	383.9	377.7	365.4	348.7	335.7	347.2	379.5	390.4	418.1	439.7	439.7
25°	464.1	456.2	444.0	407.4	375.8	368.4	398.1	411.9	444.6	466.3	459.2
27.5°	564.6	558.3	534.5	491.9	443.5	405.7	419.8	432.5	468.0	494.3	479.5
30°	646.3	643.4	623.8	585.7	532.4	477.1	460.3	468.7	499.2	529.6	514.3
32.5°	715.4	715.4	695.4	659.9	610.0	560.9	528.9	535.0	564.1	599.2	570.9
35°	791.3	788.8	772.6	738.8	682.9	639.7	626.5	634.7	661.2	687.2	617.3
37.5°	871.1	870.3	853.4	820.8	775.1	720.7	690.0	692.1	705.7	721.7	671.7
40°	957.8	959.1	937.1	916.9	873.9	818.2	759.3	745.7	758.4	803.3	772.2
42.5°	1060.2	1057.1	1047.7	1020.1	985.6	952.2	881.5	876.5	887.7	935.9	902.1
45°	1179.1	1183.5	1167.1	1151.8	1128.5	1100.9	1041.7	1033.1	1045.4	1120.2	1072.2
47.5°	1298.3	1294.2	1304.7	1302.0	1314.4	1293.8	1241.5	1223.8	1253.3	1324.3	1253.8
50°	1389.1	1393.5	1415.5	1447.5	1501.1	1512.7	1462.6	1456.6	1469.7	1515.3	1416.2
52.5°	1447.9	1463.0	1497.5	1579.8	1676.4	1751.5	1713.4	1710.2	1704.8	1717.1	1571.4
55°	1486.5	1501.8	1546.7	1668.0	1834.3	1956.3	1958.2	1944.4	1908.9	1900.1	1716.6
57.5°	1462.8	1465.9	1529.9	1692.1	1921.9	2102.2	2165.5	2151.8	2086.2	2052.8	1844.8
60°	1314.8	1321.0	1410.4	1600.9	1883.8	2150.0	2303.0	2296.7	2224.9	2187.3	1944.6
62.5°	1052.7	1070.7	1162.6	1375.0	1706.7	2069.6	2358.7	2376.3	2320.4	2268.5	1976.0
63°	1004.5	998.7	1095.7	1309.3	1659.9	2029.8	2359.5	2381.9	2324.7	2276.3	1967.4
65°	743.5	761.0	824.0	1032.4	1381.3	1844.6	2306.4	2346.0	2308.8	2242.1	1872.2
67.5°	417.5	416.6	486.4	675.6	966.8	1446.9	2085.5	2169.2	2161.5	2011.9	1551.9
70°	204.4	207.6	236.2	350.2	560.8	998.3	1733.0	1823.3	1826.1	1580.2	1073.1
72.5°	92.5	94.0	114.5	170.6	288.2	531.5	1194.2	1280.4	1264.5	1007.0	592.6
75°	48.9	52.1	63.0	85.8	138.9	219.2	649.6	733.0	699.7	460.1	218.1
77.5°	36.2	37.2	42.8	54.7	74.4	85.4	280.2	333.4	312.3	166.5	72.2
80°	26.5	27.3	31.9	38.7	46.9	43.5	105.6	121.1	108.7	56.6	22.1
82.5°	16.1	16.3	23.2	28.8	29.4	24.3	34.8	37.4	39.1	31.9	12.0
85°	5.8	7.3	15.7	20.9	17.4	12.3	14.6	16.1	17.7	20.2	7.1
87.5°	0.7	0.8	7.6	10.1	5.0	4.5	5.4	6.1	6.5	7.6	3.4
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°	319.8	319.8	319.8	319.8	319.8	319.8	319.8	319.8	319.8	319.8	319.8
2.5°	321.8	322.6	322.0	320.9	320.7	320.1	318.7	318.7	318.7	319.2	318.7
5°	326.5	327.1	325.6	323.5	321.1	318.2	314.9	312.9	312.8	312.3	311.3
7.5°	335.6	336.4	333.0	327.8	321.3	314.0	307.1	300.7	297.7	295.4	295.4
10°	348.7	349.5	342.6	333.4	320.5	305.6	289.3	274.4	262.8	257.4	256.2
12.5°	364.3	364.8	353.4	337.2	316.0	287.4	252.6	220.0	197.5	187.1	186.0
15°	381.6	378.5	363.5	338.8	303.1	249.7	189.5	149.7	126.2	119.3	121.9
17.5°	399.0	393.4	371.2	336.4	274.0	189.5	127.3	102.2	94.9	92.9	92.9
20°	415.4	407.6	376.9	326.1	223.7	130.5	94.4	88.4	87.1	85.8	86.0
22.5°	431.7	419.8	381.8	303.1	166.7	93.4	84.5	82.6	80.9	79.1	79.0
25°	447.6	431.3	383.7	260.5	113.5	80.2	77.2	74.6	71.2	69.3	68.8
27.5°	464.1	445.1	382.4	206.7	82.8	71.8	68.8	65.2	61.1	57.6	57.6
30°	496.0	471.3	377.9	148.6	69.7	63.2	59.4	53.6	49.0	45.6	45.4
32.5°	539.4	505.4	362.4	104.5	62.0	55.7	49.9	43.5	38.7	36.2	36.2
35°	578.2	539.8	333.4	77.0	55.7	48.4	41.3	35.1	31.4	29.7	29.0
37.5°	637.1	590.2	293.3	62.6	49.7	42.0	34.6	28.8	25.8	24.6	24.6
40°	725.5	651.7	244.3	54.8	43.9	35.7	28.8	24.3	22.0	20.4	20.4
42.5°	835.2	727.0	194.7	49.3	38.5	30.8	24.1	20.7	18.5	17.4	17.2
45°	973.3	806.4	150.0	44.1	34.2	26.2	20.4	17.4	15.3	14.6	14.8
47.5°	1117.4	876.2	116.1	39.6	29.7	22.1	17.4	15.1	13.5	12.7	12.7
50°	1240.4	924.4	88.2	34.4	26.2	18.8	15.3	13.5	12.3	11.9	11.6
52.5°	1343.2	938.5	67.5	29.9	23.0	16.1	13.5	12.3	11.2	10.5	10.5
55°	1430.8	926.2	52.9	25.1	19.3	14.0	12.0	10.9	9.7	9.0	8.8
57.5°	1482.0	886.8	40.5	20.9	15.7	11.6	10.5	9.3	7.7	6.6	6.6
60°	1507.7	829.6	30.9	17.2	12.0	9.3	8.6	6.9	5.4	4.5	4.3
62.5°	1476.8	753.7	23.5	13.5	9.0	6.9	5.8	5.0	3.4	2.6	2.6
63°	1457.6	731.8	22.6	12.9	8.4	6.5	5.4	4.5	3.0	2.4	2.2
65°	1328.9	636.0	18.5	10.3	6.6	4.5	3.6	3.2	2.2	1.1	0.8
67.5°	1055.2	486.5	14.6	7.7	4.7	3.2	2.2	1.9	0.7	0.0	0.0
70°	713.4	314.3	11.4	5.6	3.2	1.9	1.1	0.8	0.3	0.0	0.0
72.5°	372.1	161.1	8.8	4.1	1.9	1.3	0.7	0.3	0.0	0.0	0.0
75°	131.6	54.8	6.5	2.6	1.3	0.7	0.3	0.0	0.0	0.0	0.0
77.5°	39.8	20.4	4.1	1.9	0.8	0.4	0.0	0.0	0.0	0.0	0.0
80°	14.0	7.6	2.4	1.3	0.7	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	6.9	3.6	1.5	1.1	0.7	0.3	0.0	0.0	0.0	0.0	0.0
85°	3.9	2.4	1.3	1.1	0.7	0.4	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	1.7	1.3	1.1	0.8	0.4	0.3	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)