

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: P450590

Luminaire Tested: **GALN-SA1B-827-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450590
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3314 lumens
Efficiency: N/A
Efficacy: 75.3 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

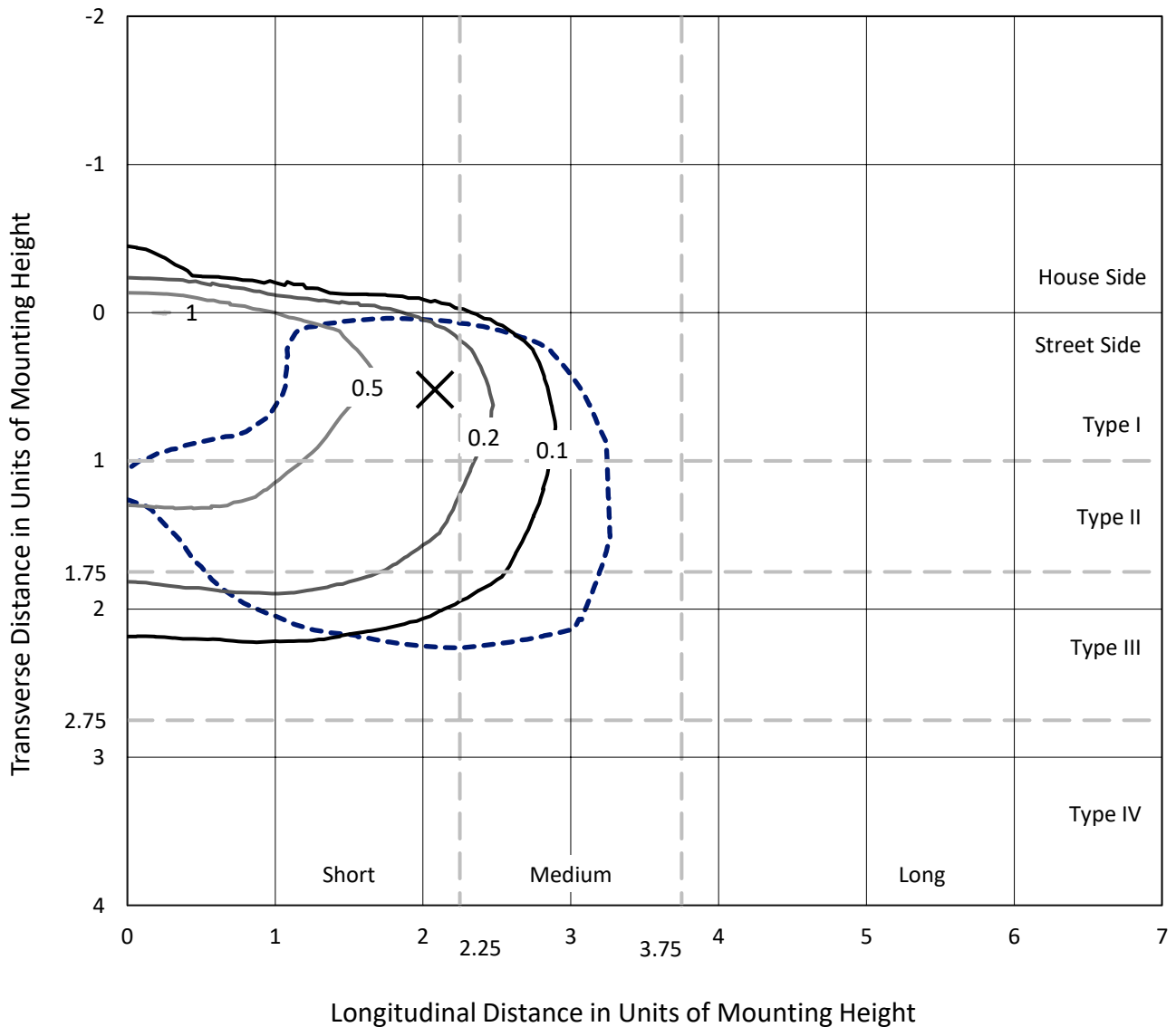
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

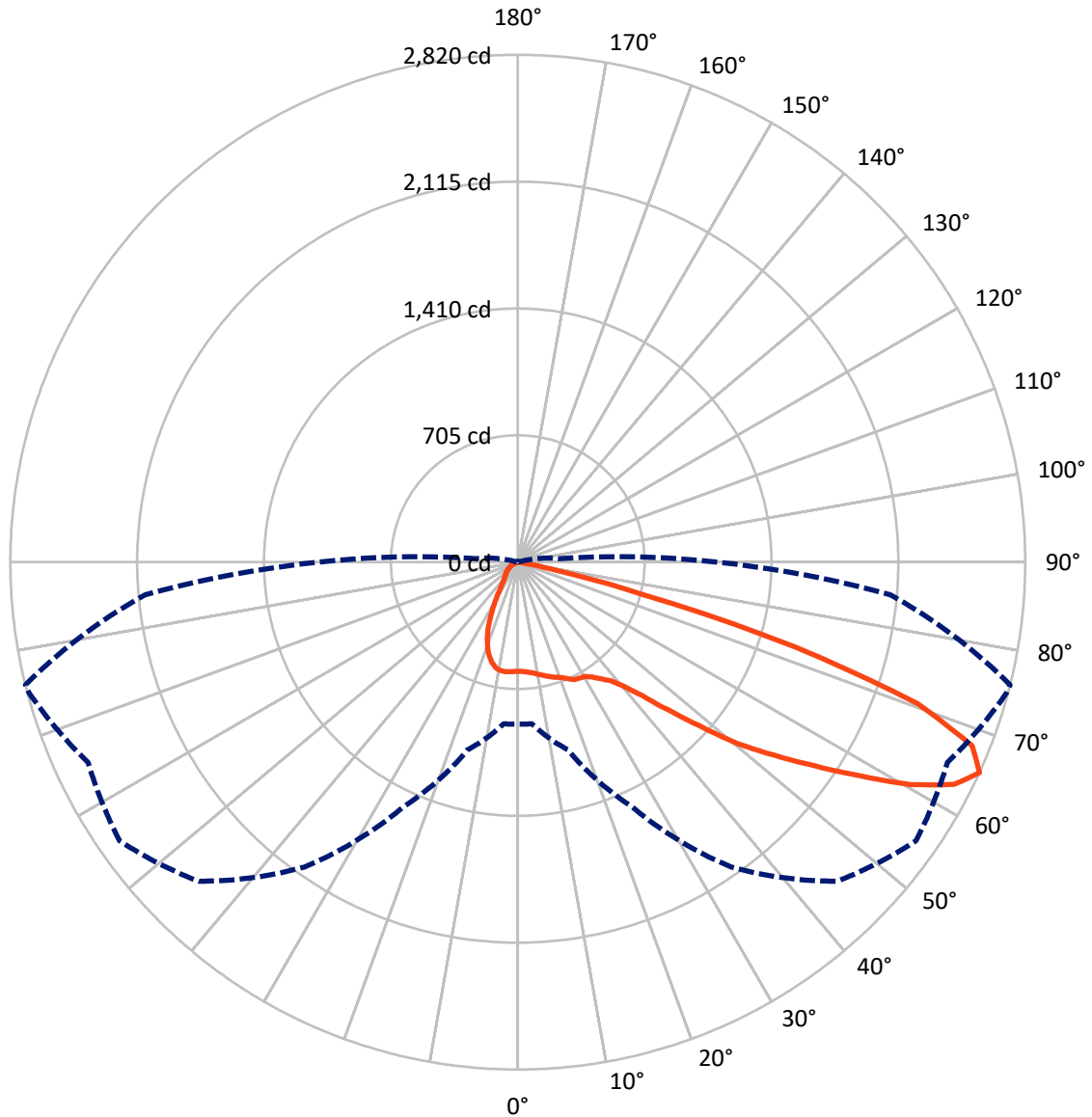
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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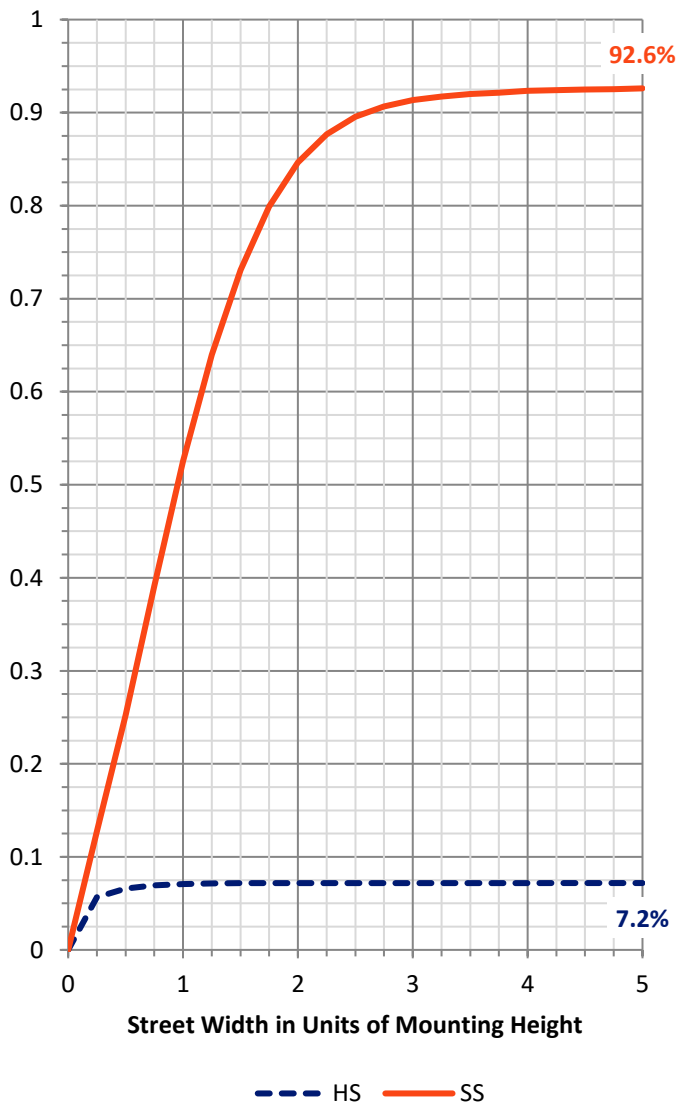
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	239.3	0.0	239.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	3074.7	0.0	3074.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	3314.0	0.0	3314.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.9	1.5
10°-20°	111.2	3.4
20°-30°	179.2	5.4
30°-40°	311.6	9.4
40°-50°	514.8	15.5
50°-60°	795.3	24.0
60°-70°	971.2	29.3
70°-80°	368.6	11.1
80°-90°	12.3	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°	3314.0	100.0
0°-180°	3314.0	100.0



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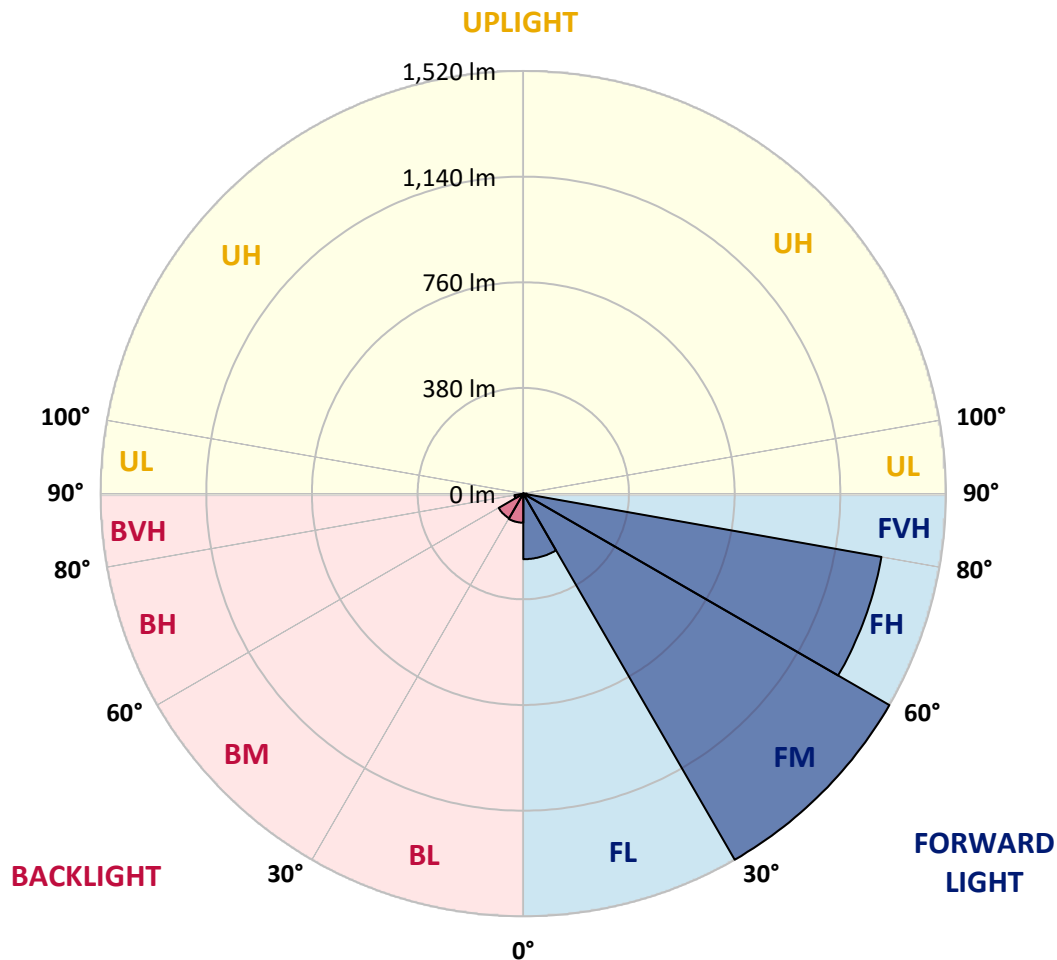
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	235.8	7.1			
FM (30°-60°)	1519.5	45.9			
FH (60°-80°)	1307.3	39.4			G1/1800
FVH (80°-90°)	12.1	0.4			G1/100
BL (0°-30°)	104.6	3.2	B0/110		
BM (30°-60°)	102.1	3.1	B0/220		
BH (60°-80°)	32.5	1.0	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	606.2	606.2	606.2	606.2	606.2	606.2	606.2	606.2	606.2	606.2	606.2
2.5°	579.3	579.6	581.0	584.5	589.9	594.3	598.0	604.1	608.3	608.8	610.2
5°	539.3	536.5	539.3	548.4	556.6	569.0	584.2	599.5	613.0	614.0	620.5
7.5°	494.4	496.7	501.2	510.5	526.0	544.9	566.9	594.1	619.8	622.1	635.0
10°	448.8	453.9	461.2	475.4	497.0	521.5	551.5	590.3	630.6	633.8	656.1
12.5°	406.7	409.0	417.9	437.1	463.7	498.4	539.8	588.2	642.5	646.5	678.5
15°	374.4	377.4	385.1	402.4	432.2	476.6	530.2	587.5	654.2	659.8	701.0
17.5°	368.3	370.2	373.4	385.1	411.1	459.3	521.5	587.3	665.4	672.2	721.8
20°	393.3	391.7	388.4	387.2	401.5	446.0	515.2	589.2	676.2	683.9	743.8
22.5°	456.0	458.1	438.9	416.2	411.6	443.9	514.3	598.0	693.3	702.4	768.4
25°	589.2	573.0	543.1	488.8	447.8	456.7	524.8	619.1	713.2	723.2	790.6
27.5°	736.3	731.4	684.9	595.5	519.2	483.9	543.5	635.2	719.7	730.0	803.2
30°	880.9	886.8	833.4	734.7	622.8	534.2	561.1	641.3	725.6	736.3	819.4
32.5°	1015.0	1022.0	975.2	877.4	745.0	621.2	591.3	665.0	750.1	761.1	846.3
35°	1120.5	1121.5	1086.1	1008.2	878.4	727.0	656.5	706.4	783.4	796.2	874.8
37.5°	1217.4	1216.0	1174.6	1107.4	989.5	832.0	738.7	754.1	821.3	834.6	916.0
40°	1289.2	1290.2	1276.8	1213.6	1093.1	929.1	803.7	798.8	884.9	905.7	975.9
42.5°	1337.2	1345.8	1352.4	1320.3	1223.5	1048.7	903.6	894.5	995.3	1012.7	1060.6
45°	1376.0	1391.5	1424.2	1422.6	1348.6	1195.4	1040.7	1022.0	1151.9	1170.4	1168.5
47.5°	1404.3	1420.0	1474.3	1507.1	1466.3	1337.7	1213.2	1197.0	1338.8	1358.9	1287.6
50°	1418.8	1437.6	1506.8	1570.2	1558.3	1474.8	1409.7	1410.7	1564.6	1584.0	1425.6
52.5°	1384.9	1409.2	1524.1	1638.3	1661.5	1606.0	1593.9	1624.7	1765.6	1782.2	1550.3
55°	1276.6	1307.2	1500.5	1696.3	1781.0	1760.9	1803.0	1850.1	1985.3	1996.1	1678.3
57.5°	1208.0	1240.6	1430.8	1745.7	1924.7	1955.6	2022.3	2056.7	2212.0	2239.4	1825.3
60°	1150.2	1175.7	1373.4	1756.2	2070.7	2193.8	2258.6	2294.2	2491.9	2509.6	1986.9
62.5°	1054.1	1083.3	1276.6	1682.8	2144.2	2384.5	2518.8	2502.9	2708.3	2720.7	2086.1
65°	899.4	902.0	1080.0	1498.2	2068.4	2508.2	2701.5	2634.8	2811.7	2820.1	2078.4
67.5°	671.3	696.1	830.9	1177.6	1747.1	2402.5	2760.7	2638.3	2746.4	2723.0	1913.5
70°	432.4	451.3	563.2	816.6	1259.7	2005.0	2564.4	2457.5	2410.4	2358.5	1566.2
72.5°	199.6	223.9	334.6	466.6	747.1	1428.2	2081.7	1996.5	1734.9	1606.7	995.6
75°	87.0	93.1	165.2	246.1	350.3	755.3	1372.5	1239.4	783.6	715.7	398.5
77.5°	53.1	57.1	86.6	132.0	137.6	287.8	739.4	540.7	242.2	213.6	108.1
80°	36.0	40.5	62.9	69.0	47.0	80.3	277.5	144.4	48.9	46.8	23.2
82.5°	17.5	22.2	46.6	38.6	20.4	25.7	80.7	30.9	14.3	13.3	8.2
85°	2.6	4.4	26.2	25.3	9.1	6.1	14.3	7.7	4.9	4.7	3.7
87.5°	0.0	0.0	8.9	4.0	0.9	0.9	1.6	1.6	1.9	1.6	1.9
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°	606.2	606.2	606.2	606.2	606.2	606.2	606.2	606.2	606.2	606.2	606.2
2.5°	610.9	612.1	607.6	601.3	594.5	587.8	578.2	569.5	564.4	567.4	559.9
5°	621.9	621.0	609.3	590.1	564.6	533.9	503.5	477.5	469.1	456.5	455.1
7.5°	637.1	634.5	609.7	565.8	508.2	450.6	394.5	357.3	336.0	318.0	318.4
10°	658.4	650.9	604.4	522.9	428.2	341.4	269.8	220.6	199.3	192.6	187.2
12.5°	680.4	665.9	589.4	465.1	333.4	233.3	164.0	134.1	121.0	116.8	116.3
15°	700.1	677.1	563.2	395.7	242.4	149.0	111.8	102.0	100.4	100.6	100.4
17.5°	719.5	686.0	526.9	322.0	164.7	106.9	96.2	93.8	94.5	95.5	95.2
20°	735.6	687.9	480.6	245.7	116.5	93.8	90.3	89.8	90.5	91.3	91.3
22.5°	753.2	689.3	425.6	170.1	95.2	87.3	85.4	85.4	86.3	87.3	87.5
25°	766.3	681.6	359.9	122.1	84.0	81.0	80.0	80.3	81.2	81.7	81.4
27.5°	768.4	659.8	290.1	93.6	76.3	73.2	72.3	73.2	72.1	72.8	72.3
30°	770.3	632.2	219.5	78.9	69.3	64.6	63.2	61.8	60.8	59.7	59.4
32.5°	776.1	599.7	160.3	70.9	62.7	57.6	54.3	50.3	47.3	46.3	46.1
35°	778.7	560.6	117.7	64.6	56.9	51.2	45.4	39.8	35.3	33.7	34.9
37.5°	788.5	522.7	91.3	59.9	51.7	44.7	37.2	30.2	26.0	25.0	25.5
40°	808.6	481.5	76.5	55.9	47.3	38.6	29.5	22.7	19.9	19.0	18.7
42.5°	840.9	440.6	68.1	52.2	42.8	32.5	23.2	17.8	15.4	14.7	14.7
45°	880.2	401.3	62.2	48.2	38.1	26.2	18.3	14.3	12.9	12.4	12.4
47.5°	931.9	366.9	57.3	44.2	33.0	20.8	14.7	12.4	11.5	11.7	11.9
50°	984.3	341.4	51.9	39.8	27.1	17.1	12.6	11.0	10.8	11.0	11.0
52.5°	1023.9	326.4	44.7	33.7	21.3	14.3	11.2	10.3	10.1	9.6	9.6
55°	1077.2	323.1	35.6	27.4	16.8	11.9	10.1	9.4	8.7	8.2	8.0
57.5°	1145.8	326.9	27.4	21.3	13.1	9.8	8.9	7.7	6.8	5.8	5.8
60°	1188.4	318.4	21.3	16.4	9.6	8.0	6.8	5.6	4.4	3.7	3.5
62.5°	1174.8	282.9	16.8	12.2	6.8	5.8	4.4	3.7	2.6	1.9	1.6
65°	1104.8	228.4	13.6	8.4	4.9	3.5	2.3	2.3	1.2	0.2	0.0
67.5°	967.0	169.2	10.8	5.6	2.8	1.6	1.2	0.7	0.0	0.0	0.0
70°	787.1	122.1	8.4	3.5	1.6	1.2	0.5	0.2	0.0	0.0	0.0
72.5°	499.8	70.0	6.6	2.1	1.2	0.5	0.0	0.0	0.0	0.0	0.0
75°	193.3	27.4	4.4	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	54.8	12.9	2.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	14.3	5.6	1.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.8	2.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.0	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	0.2	0.0	0.0	0.0	0.0	0.0	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)