

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: P450439

Luminaire Tested: **GALN-SA1B-727-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3600 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

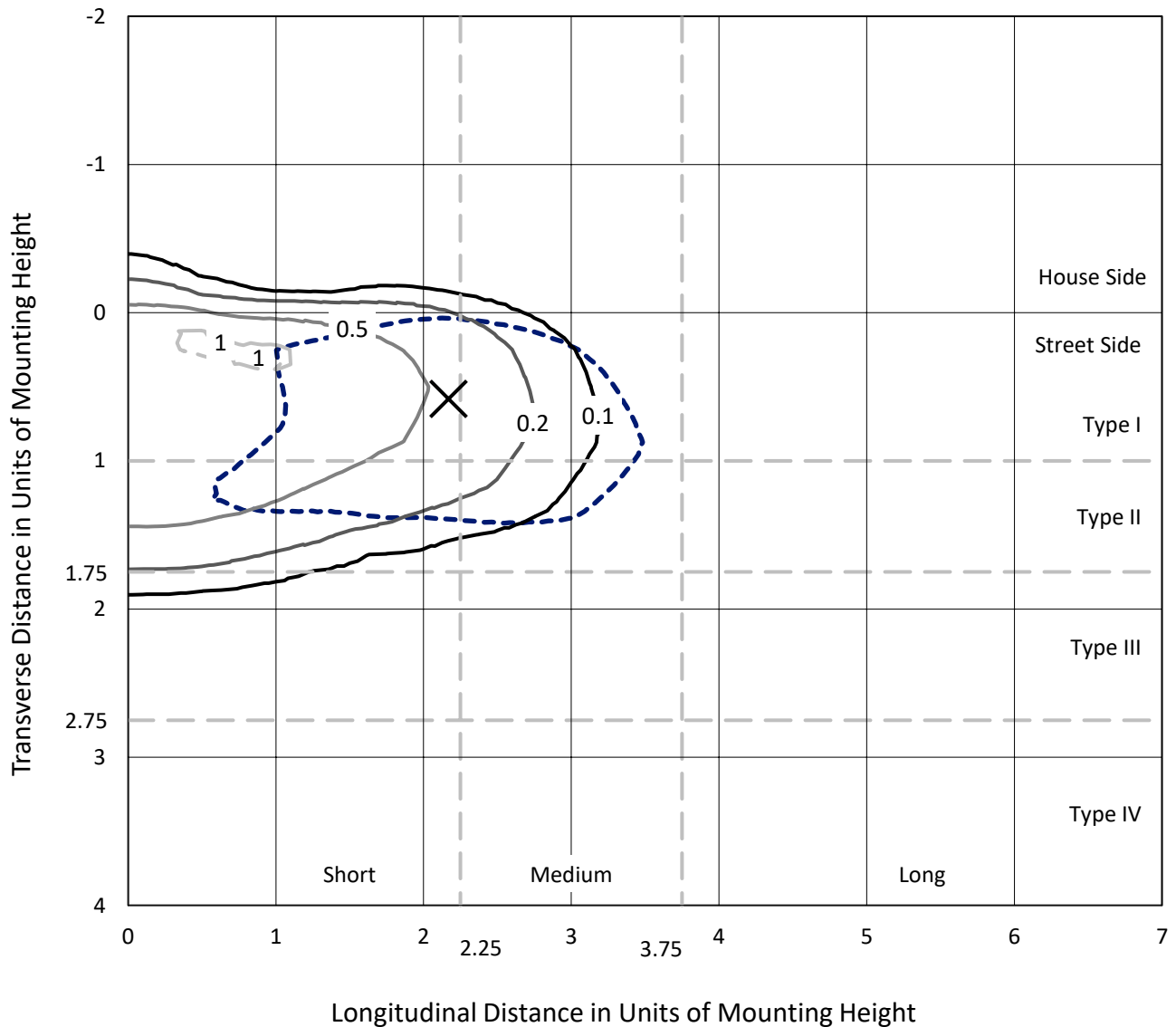
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

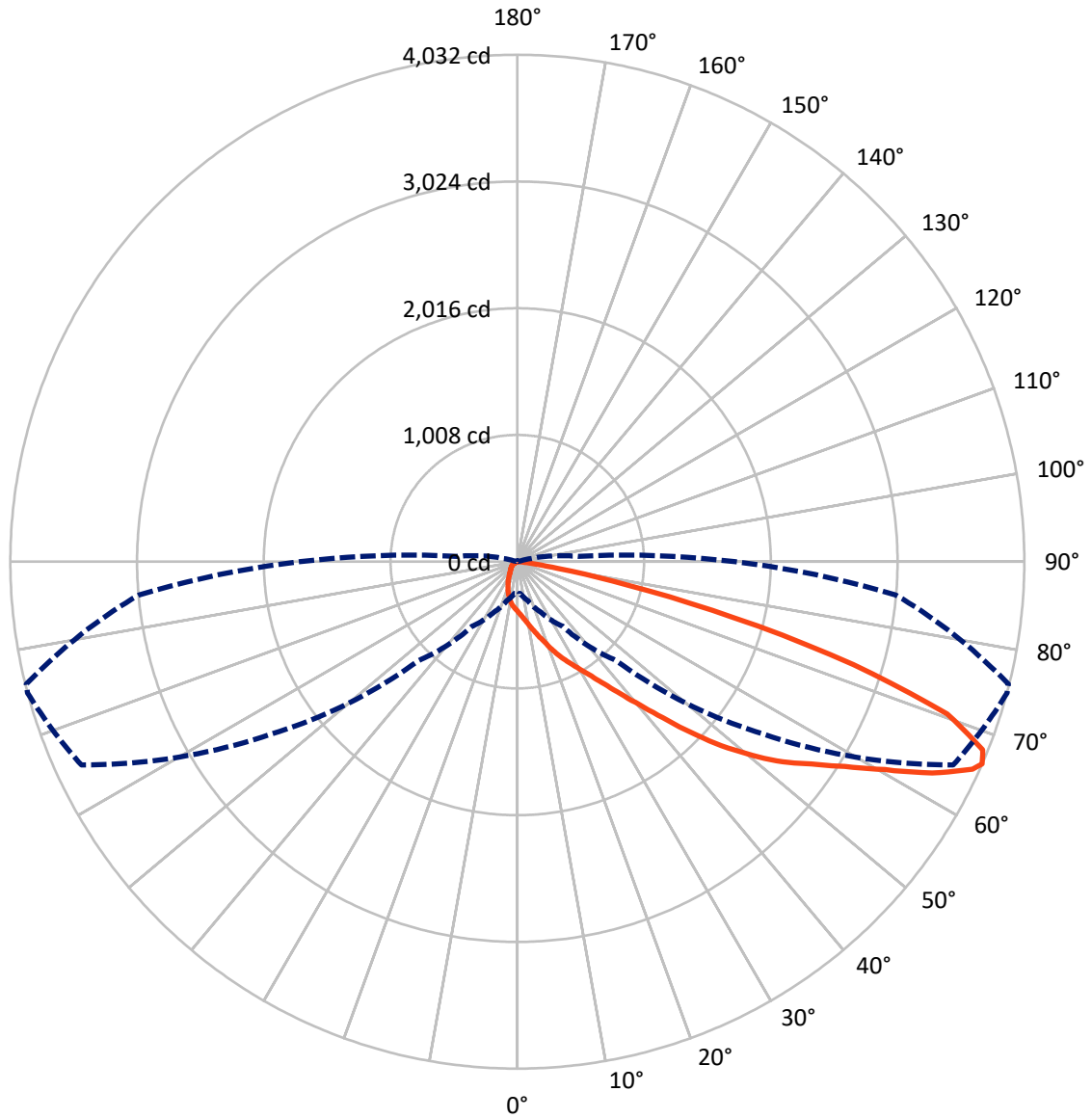
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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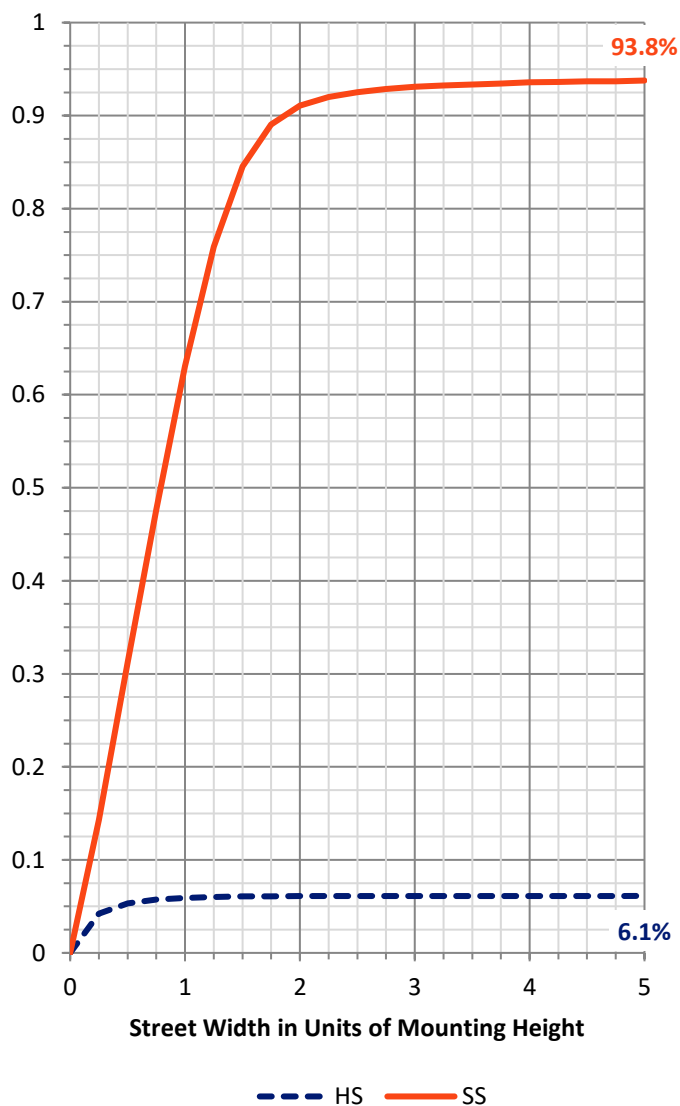
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	222.2	0.0	222.2
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	3377.8	0.0	3377.8
	% Fixture	93.8	0.0	93.8
Total	Lumens	3600.0	0.0	3600.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.0	1.1
10°-20°	111.8	3.1
20°-30°	193.0	5.4
30°-40°	348.1	9.7
40°-50°	628.8	17.5
50°-60°	980.4	27.2
60°-70°	931.3	25.9
70°-80°	349.0	9.7
80°-90°	19.7	0.5
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°	3600.0	100.0
0°-180°	3600.0	100.0

Coefficient of Utilization



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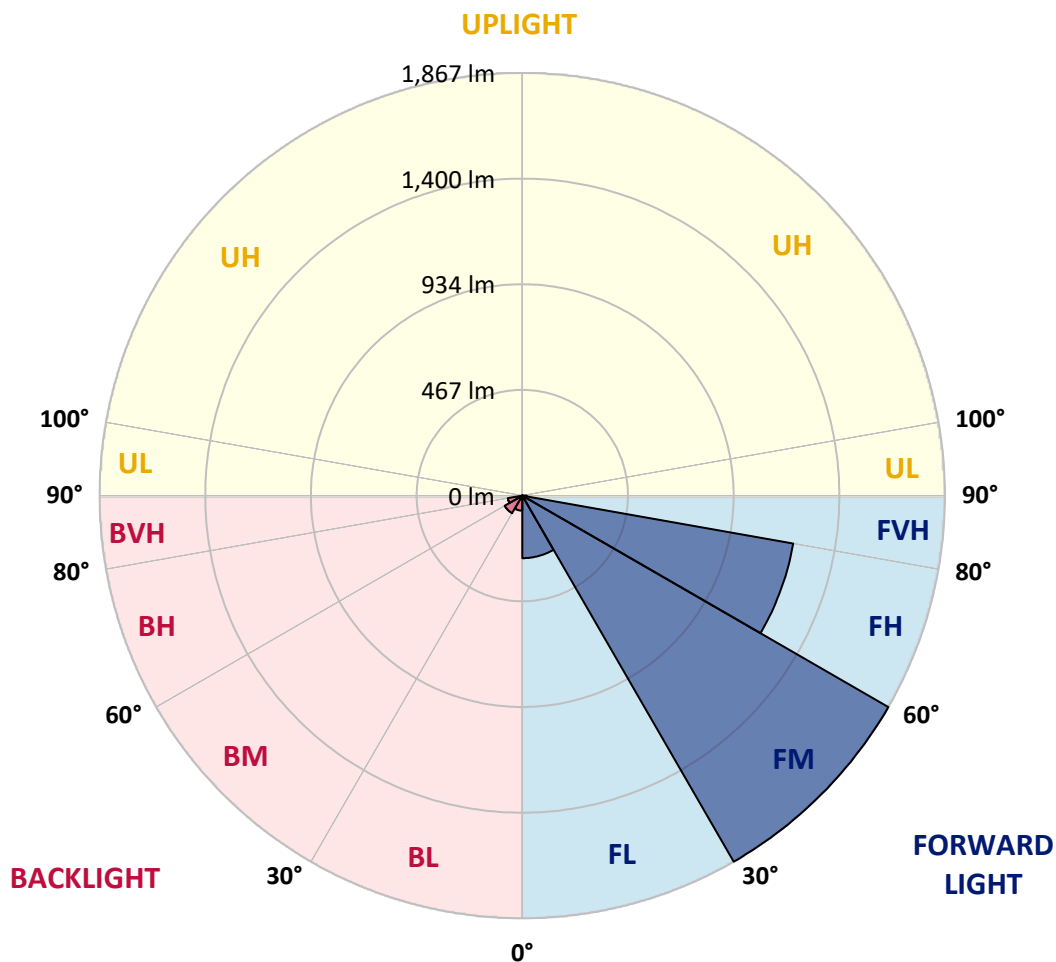
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	276.3	7.7			
FM (30°-60°)	1867.3	51.9			
FH (60°-80°)	1215.4	33.8			G1/1800
FVH (80°-90°)	18.7	0.5			G1/100
BL (0°-30°)	66.4	1.8	B0/110		
BM (30°-60°)	90.0	2.5	B0/220		
BH (60°-80°)	64.9	1.8	B0/110		G0/110
BVH (80°-90°)	1.0	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	393.7	393.7	393.7	393.7	393.7	393.7	393.7	393.7	393.7	393.7	393.7
2.5°	470.4	464.5	466.4	463.7	457.6	448.5	440.5	429.1	417.7	415.8	403.0
5°	532.4	530.8	528.7	520.9	516.7	502.8	486.3	466.6	442.9	438.7	415.5
7.5°	574.7	573.9	575.0	571.0	567.3	554.7	537.2	510.3	473.6	471.2	432.6
10°	588.5	590.7	594.7	601.1	606.9	602.9	589.6	556.1	513.2	506.3	452.0
12.5°	580.6	583.0	592.5	609.6	628.5	639.4	634.1	609.6	555.3	549.7	473.8
15°	560.1	563.0	576.6	602.9	636.7	667.6	680.9	663.3	604.3	595.2	500.2
17.5°	529.7	534.0	553.4	588.3	634.6	687.8	725.4	719.5	656.4	647.9	528.9
20°	506.8	510.0	526.5	566.5	625.5	699.0	767.7	784.2	720.8	706.2	562.7
22.5°	522.0	523.1	528.7	552.6	609.3	701.9	805.0	851.5	789.3	776.2	597.9
25°	596.3	585.6	580.0	574.7	605.8	699.3	838.8	921.8	857.4	843.6	632.7
27.5°	713.4	708.6	680.4	642.6	635.4	702.7	861.1	988.4	921.6	906.6	666.8
30°	840.9	832.6	815.3	760.0	704.3	727.2	877.4	1053.0	997.4	977.7	698.0
32.5°	958.0	963.3	937.5	880.6	816.1	779.4	898.4	1123.6	1084.5	1060.0	734.2
35°	1094.6	1105.2	1065.6	1011.0	935.7	873.6	939.4	1203.2	1194.9	1164.1	790.1
37.5°	1233.3	1239.6	1215.4	1138.8	1070.9	993.4	1016.6	1301.4	1331.0	1304.6	856.9
40°	1349.9	1358.6	1340.8	1272.7	1200.3	1132.1	1128.6	1408.4	1492.8	1465.6	956.4
42.5°	1439.0	1445.7	1446.2	1398.0	1332.8	1301.9	1271.6	1545.0	1695.6	1664.2	1071.9
45°	1551.6	1561.2	1555.6	1522.9	1474.2	1468.6	1452.9	1710.0	1938.4	1898.7	1221.8
47.5°	1725.7	1732.1	1718.3	1679.7	1630.1	1638.9	1629.6	1895.0	2186.0	2151.9	1377.0
50°	1846.6	1857.2	1876.9	1892.3	1856.4	1823.9	1796.3	2067.8	2421.0	2390.4	1535.7
52.5°	1845.2	1862.8	1925.1	2002.8	2081.3	2071.5	1991.9	2258.6	2645.4	2607.6	1684.7
55°	1720.9	1755.0	1846.6	1984.4	2201.9	2310.3	2274.1	2479.6	2839.2	2813.6	1857.5
57.5°	1464.3	1485.1	1612.3	1805.0	2134.6	2422.6	2600.9	2779.0	3071.6	3059.6	2125.8
60°	984.9	994.2	1157.9	1396.2	1817.3	2310.5	2840.5	3141.3	3357.7	3351.9	2439.1
62.5°	564.3	568.3	687.0	888.0	1293.2	1958.1	2860.7	3588.2	3700.8	3704.0	2801.7
65°	303.7	305.9	401.7	521.2	786.9	1395.6	2572.5	3833.1	3978.2	3984.3	3026.3
66°	262.2	252.1	319.7	444.3	626.1	1110.8	2390.1	3824.4	4031.5	4024.8	3018.3
67.5°	199.4	208.4	255.3	341.5	464.0	789.8	1973.3	3654.3	3991.0	3970.2	2895.6
70°	142.7	146.4	181.8	243.6	316.0	433.4	1260.9	3035.1	3627.4	3599.4	2522.7
72.5°	92.1	96.1	128.8	176.2	228.4	236.6	705.9	2192.9	2796.6	2792.6	1899.8
75°	65.7	69.5	85.2	126.2	171.7	146.4	339.9	1477.9	1777.9	1765.9	1175.2
77.5°	47.6	49.5	57.0	82.5	122.7	104.9	157.6	789.3	885.1	926.9	519.3
80°	27.4	29.0	39.7	50.3	83.1	71.6	75.3	316.8	326.6	310.9	162.4
82.5°	13.6	15.4	23.7	34.3	51.9	48.2	34.6	95.3	100.6	98.0	41.0
85°	3.2	4.0	13.3	22.6	25.3	21.6	16.8	27.9	34.6	33.8	15.7
87.5°	0.3	0.5	4.8	4.0	4.3	7.2	5.9	7.2	11.2	10.4	5.6
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°	393.7	393.7	393.7	393.7	393.7	393.7	393.7	393.7	393.7	393.7	393.7
2.5°	397.2	392.1	377.5	363.1	351.1	338.6	327.1	320.5	317.8	314.9	316.2
5°	402.7	390.5	361.0	335.4	310.4	289.1	272.0	261.1	255.8	255.0	253.7
7.5°	410.2	389.2	343.4	303.5	270.7	247.0	227.6	211.9	207.1	202.8	199.4
10°	419.2	386.8	321.6	269.9	235.0	205.2	179.7	161.0	151.5	148.8	150.7
12.5°	428.8	382.2	298.7	239.0	198.8	160.8	137.1	127.8	125.1	124.0	124.3
15°	438.4	376.7	274.7	209.2	158.4	128.3	117.4	115.0	113.9	113.4	112.9
17.5°	447.2	367.6	247.8	180.2	128.3	109.7	105.7	103.5	101.4	100.6	99.3
20°	457.6	357.2	223.6	147.7	108.6	99.3	94.5	90.5	87.3	85.2	84.9
22.5°	467.4	343.9	198.3	122.4	99.0	89.2	81.5	77.2	73.5	70.8	71.6
25°	472.8	327.7	175.7	106.7	90.2	79.1	70.5	65.2	61.2	59.9	59.6
27.5°	472.8	307.7	153.6	97.7	82.3	70.0	61.2	56.2	53.5	51.6	51.9
30°	469.0	285.6	133.1	90.8	75.3	62.0	53.8	49.2	47.1	45.8	45.5
32.5°	466.1	264.6	115.5	84.1	68.1	55.1	47.9	44.5	42.3	41.0	41.0
35°	470.6	246.5	102.0	77.5	61.5	49.8	43.4	40.2	38.1	37.0	36.7
37.5°	482.6	230.0	91.6	70.3	55.4	45.3	40.2	36.5	34.3	33.0	32.5
40°	512.2	220.7	83.8	63.6	49.5	41.5	36.5	33.0	30.3	29.0	28.7
42.5°	559.5	220.9	76.4	57.5	45.0	38.3	33.3	29.3	26.4	25.0	24.8
45°	630.9	231.1	70.5	51.6	41.0	34.9	29.8	25.6	22.9	21.6	21.6
47.5°	716.3	250.8	65.5	46.6	37.3	31.7	26.4	22.1	19.4	18.4	18.4
50°	809.0	276.3	60.4	41.3	34.1	28.2	22.6	19.2	17.0	16.2	16.2
52.5°	903.5	307.2	55.4	37.0	30.6	24.5	19.4	17.0	15.2	14.6	14.4
55°	1027.5	346.6	50.0	32.5	26.9	21.0	17.3	14.9	12.8	12.0	11.7
57.5°	1218.4	405.9	44.2	28.5	22.1	17.6	14.9	12.5	10.1	8.8	8.5
60°	1448.6	478.3	38.1	25.0	17.8	14.4	12.0	9.6	7.5	5.9	5.6
62.5°	1664.2	524.4	32.2	21.0	14.1	10.9	8.5	7.2	5.3	3.7	3.5
65°	1759.5	509.0	26.6	17.0	11.2	7.7	5.6	5.1	3.2	1.6	1.3
66°	1727.8	486.1	24.5	15.4	10.1	6.7	4.8	4.3	2.4	0.8	0.8
67.5°	1634.4	432.0	21.3	13.3	8.8	5.3	3.7	3.2	1.3	0.3	0.0
70°	1400.4	349.5	16.8	9.8	6.4	3.7	2.1	1.6	0.8	0.0	0.0
72.5°	1075.7	260.3	13.3	7.5	4.5	2.1	1.1	0.5	0.8	0.0	0.0
75°	659.1	148.8	10.4	5.6	2.9	1.3	0.8	0.0	0.8	0.3	0.0
77.5°	292.5	66.8	6.9	3.7	2.1	1.1	0.5	0.0	0.5	0.3	0.0
80°	74.0	21.8	4.0	2.7	1.6	0.8	0.3	0.0	0.5	0.5	0.3
82.5°	20.2	8.0	2.9	2.1	1.3	0.8	0.3	0.0	0.5	0.5	0.5
85°	8.0	3.7	2.7	2.1	1.6	0.8	0.3	0.0	0.5	0.5	0.5
87.5°	3.7	2.7	2.7	2.4	1.9	0.8	0.3	0.0	0.5	0.3	0.5
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)