

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: P651701

Luminaire Tested: **GALN-SA1A-840-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651701
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-SA1A-840-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 615mA 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: 3046.9 lumens
Efficiency: N/A
Efficacy: 92.3 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

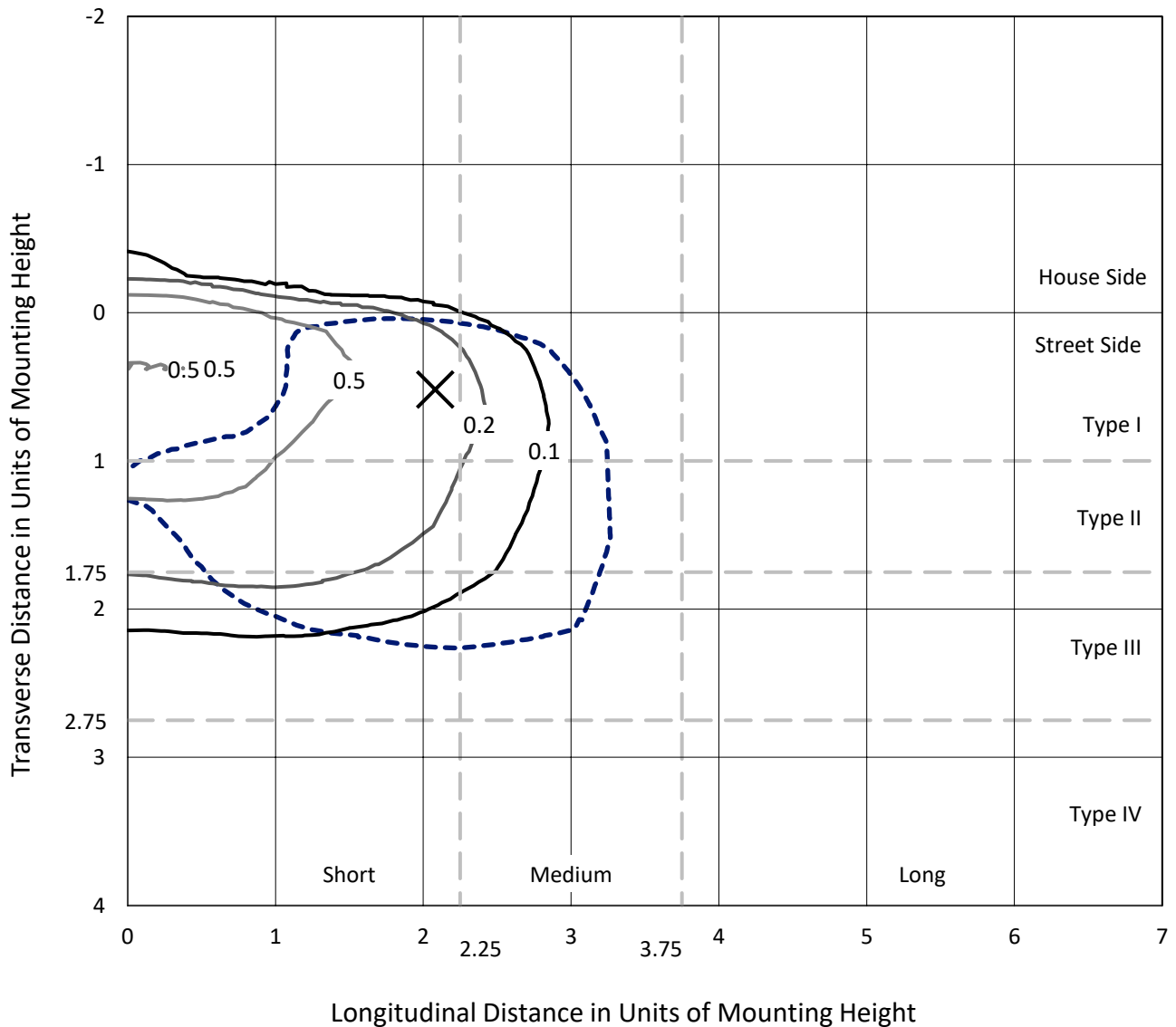
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

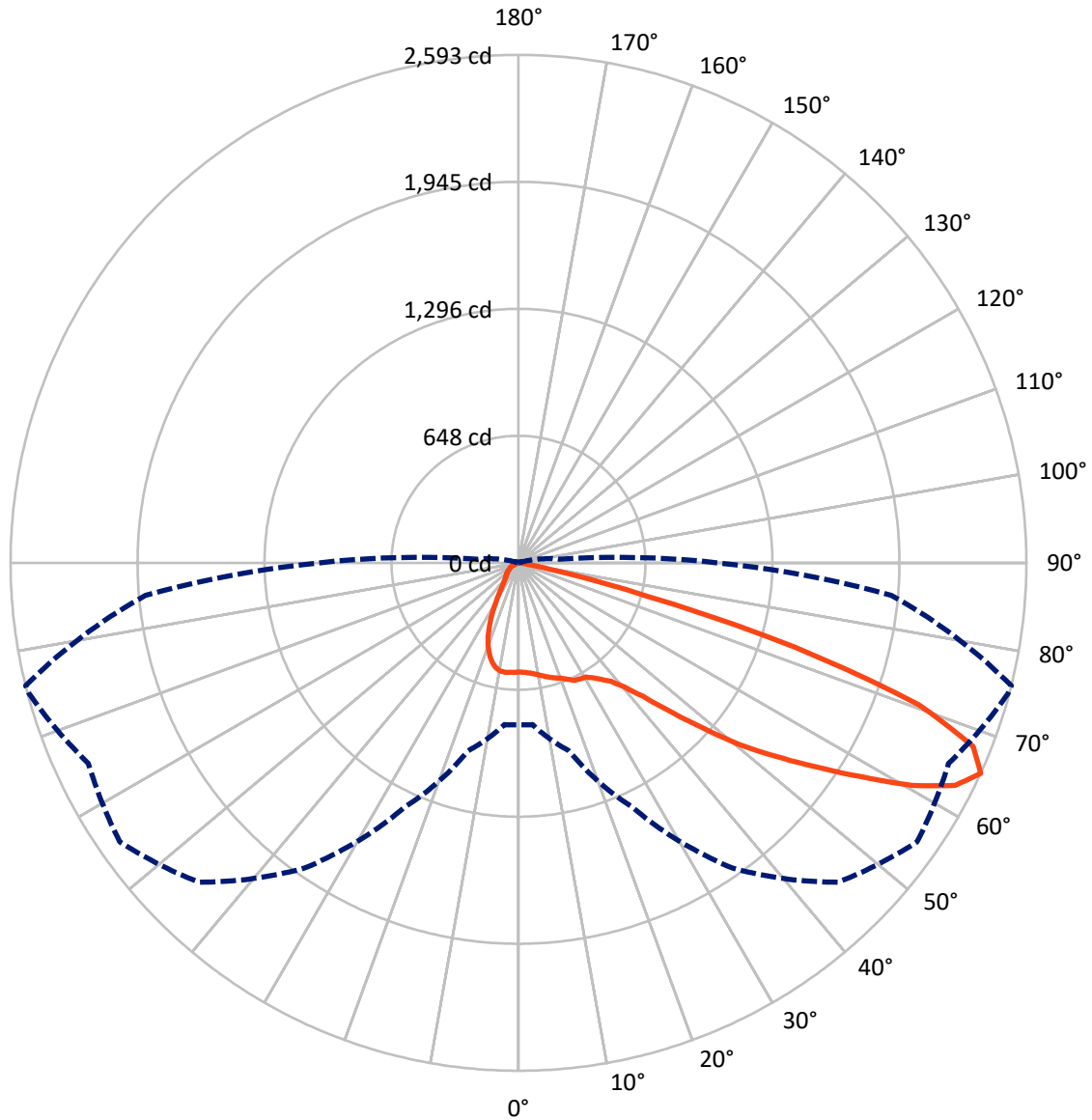
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type 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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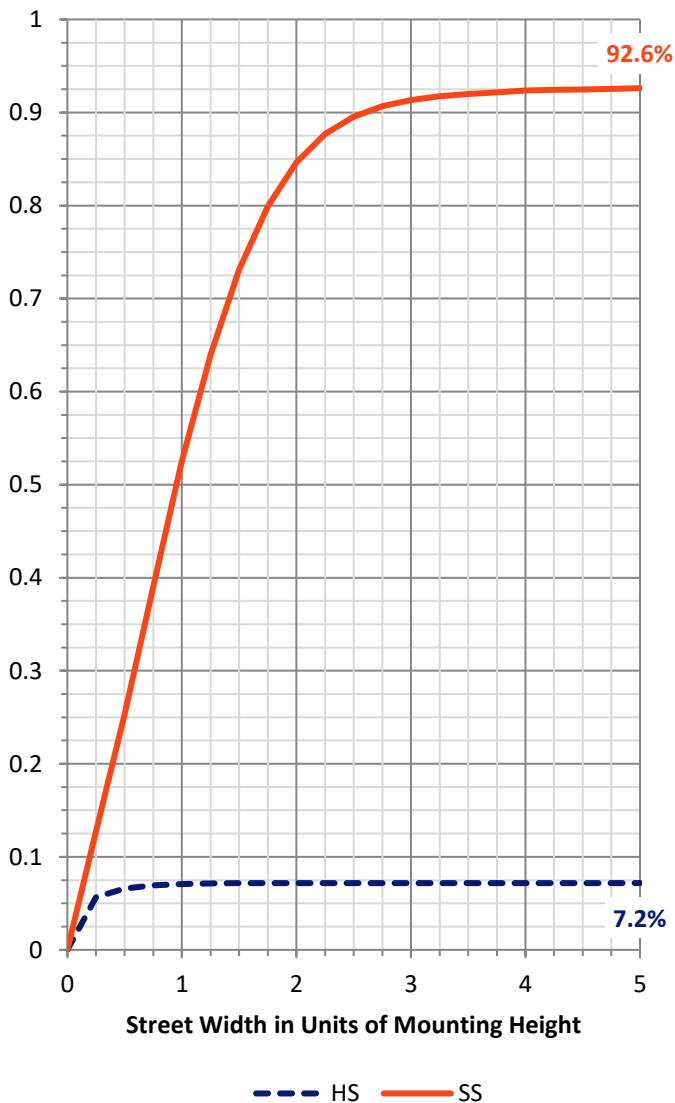
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	220.0	0.0	220.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	2826.9	0.0	2826.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	3046.9	0.0	3046.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.9	1.5
10°-20°	102.2	3.4
20°-30°	164.7	5.4
30°-40°	286.4	9.4
40°-50°	473.3	15.5
50°-60°	731.2	24.0
60°-70°	892.9	29.3
70°-80°	338.9	11.1
80°-90°	11.3	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°	3046.9	100.0
0°-180°	3046.9	100.0

Coefficient of Utilization



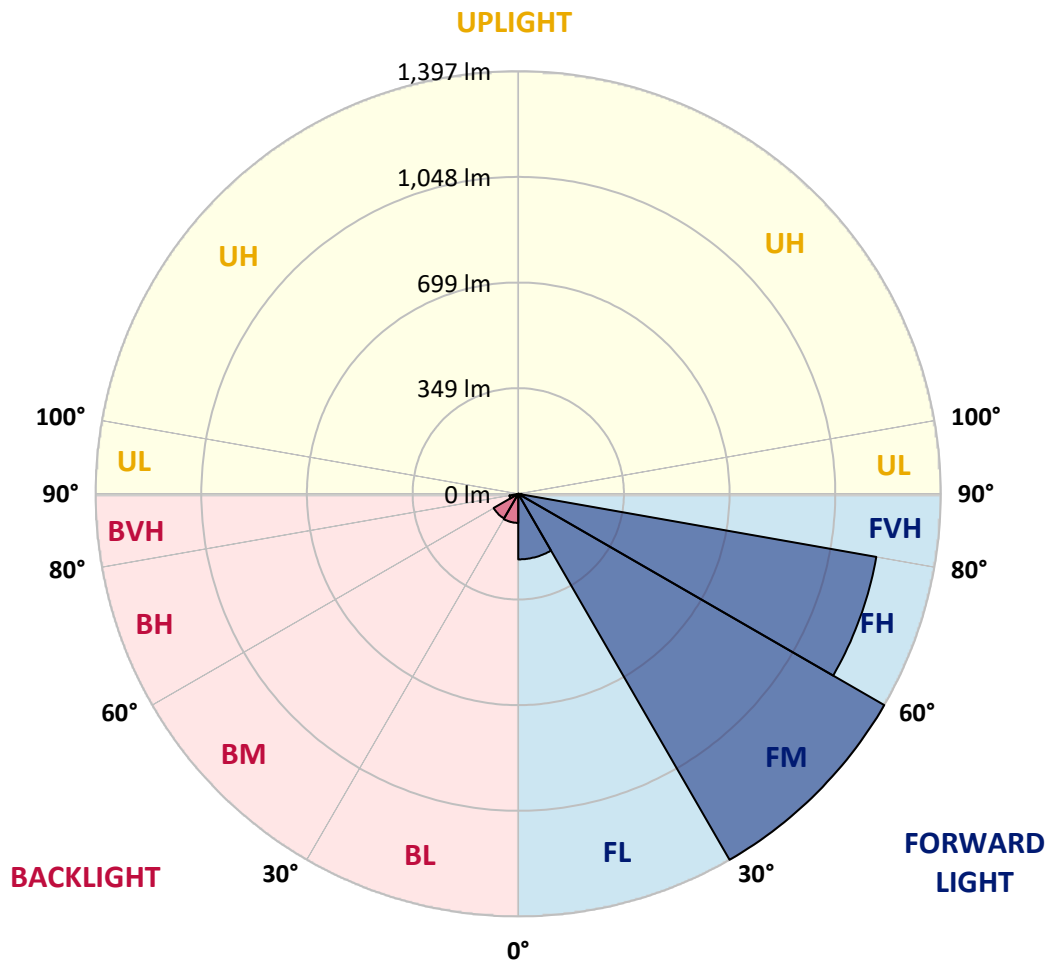
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	216.8	7.1			
FM (30°-60°)	1397.1	45.9			
FH (60°-80°)	1201.9	39.4			G1/1800
FVH (80°-90°)	11.2	0.4			G1/100
BL (0°-30°)	96.1	3.2	B0/110		
BM (30°-60°)	93.9	3.1	B0/220		
BH (60°-80°)	29.9	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°	557.4	557.4	557.4	557.4	557.4	557.4	557.4	557.4	557.4	557.4	557.4
2.5°	532.6	532.9	534.1	537.4	542.4	546.4	549.8	555.5	559.3	559.8	561.0
5°	495.9	493.2	495.9	504.3	511.7	523.2	537.1	551.1	563.6	564.5	570.5
7.5°	454.6	456.7	460.8	469.4	483.6	501.0	521.3	546.2	569.9	572.0	583.8
10°	412.6	417.3	424.0	437.2	456.9	479.5	507.0	542.8	579.8	582.7	603.2
12.5°	373.9	376.0	384.2	401.8	426.4	458.2	496.3	540.8	590.7	594.4	623.9
15°	344.2	347.0	354.1	370.0	397.4	438.2	487.4	540.2	601.5	606.6	644.5
17.5°	338.6	340.4	343.3	354.1	377.9	422.3	479.5	539.9	611.8	618.1	663.6
20°	361.6	360.1	357.1	356.0	369.1	410.0	473.7	541.7	621.7	628.8	683.9
22.5°	419.2	421.2	403.6	382.7	378.4	408.1	472.8	549.8	637.4	645.8	706.4
25°	541.7	526.8	499.3	449.4	411.8	419.9	482.5	569.2	655.7	665.0	726.9
27.5°	677.0	672.5	629.7	547.5	477.4	444.9	499.7	584.1	661.7	671.2	738.5
30°	810.0	815.3	766.2	675.5	572.6	491.1	515.9	589.6	667.1	677.0	753.4
32.5°	933.2	939.6	896.6	806.7	684.9	571.1	543.6	611.4	689.7	699.8	778.1
35°	1030.2	1031.1	998.6	927.0	807.6	668.4	603.7	649.4	720.2	732.1	804.3
37.5°	1119.3	1118.0	1079.9	1018.2	909.8	765.0	679.1	693.3	755.0	767.3	842.2
40°	1185.3	1186.1	1174.0	1115.8	1005.1	854.3	739.0	734.4	813.6	832.8	897.3
42.5°	1229.5	1237.4	1243.4	1213.9	1124.8	964.2	830.8	822.4	915.1	931.1	975.1
45°	1265.1	1279.3	1309.4	1307.9	1240.0	1099.1	956.9	939.6	1059.1	1076.1	1074.3
47.5°	1291.2	1305.6	1355.5	1385.6	1348.2	1229.9	1115.4	1100.5	1231.0	1249.5	1183.8
50°	1304.5	1321.7	1385.4	1443.7	1432.7	1355.9	1296.1	1297.0	1438.5	1456.4	1310.8
52.5°	1273.3	1295.6	1401.3	1506.3	1527.6	1476.6	1465.4	1493.8	1623.3	1638.6	1425.4
55°	1173.7	1201.9	1379.6	1559.6	1637.5	1619.0	1657.7	1701.0	1825.3	1835.2	1543.1
57.5°	1110.7	1140.6	1315.5	1605.0	1769.6	1798.0	1859.3	1890.9	2033.8	2058.9	1678.1
60°	1057.6	1081.0	1262.8	1614.7	1903.9	2017.0	2076.6	2109.3	2291.1	2307.4	1826.8
62.5°	969.2	996.0	1173.7	1547.2	1971.4	2192.3	2315.8	2301.1	2490.0	2501.5	1918.1
65°	827.0	829.3	993.0	1377.4	1901.7	2306.1	2483.8	2422.5	2585.1	2592.9	1910.9
67.5°	617.2	640.0	763.9	1082.7	1606.3	2208.9	2538.2	2425.7	2525.1	2503.6	1759.3
70°	397.5	414.9	517.8	750.8	1158.2	1843.4	2357.7	2259.4	2216.2	2168.4	1440.0
72.5°	183.5	205.9	307.6	429.0	686.9	1313.1	1913.9	1835.7	1595.1	1477.2	915.3
75°	80.1	85.6	151.9	226.3	322.0	694.4	1261.9	1139.5	720.5	658.1	366.3
77.5°	48.9	52.5	79.6	121.4	126.5	264.6	679.8	497.1	222.6	196.4	99.4
80°	33.1	37.3	57.9	63.5	43.2	73.8	255.2	132.7	45.0	43.1	21.3
82.5°	16.1	20.4	42.8	35.5	18.8	23.6	74.2	28.4	13.1	12.3	7.6
85°	2.4	4.1	24.1	23.2	8.4	5.6	13.1	7.1	4.5	4.3	3.4
87.5°	0.0	0.0	8.2	3.6	0.8	0.8	1.5	1.5	1.7	1.5	1.7
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°	557.4	557.4	557.4	557.4	557.4	557.4	557.4	557.4	557.4	557.4	557.4
2.5°	561.7	562.8	558.7	552.9	546.6	540.4	531.6	523.6	518.9	521.7	514.8
5°	571.8	571.0	560.2	542.5	519.1	490.9	463.0	439.1	431.3	419.7	418.4
7.5°	585.8	583.4	560.6	520.2	467.3	414.4	362.7	328.5	308.9	292.3	292.8
10°	605.4	598.5	555.6	480.8	393.7	313.9	248.0	202.8	183.3	177.0	172.1
12.5°	625.5	612.2	541.9	427.6	306.5	214.5	150.8	123.3	111.2	107.3	106.9
15°	643.6	622.6	517.8	363.7	222.9	137.0	102.9	93.8	92.3	92.5	92.3
17.5°	661.5	630.8	484.4	296.0	151.5	98.3	88.4	86.3	86.9	87.8	87.5
20°	676.3	632.4	441.9	225.9	107.1	86.3	83.0	82.6	83.3	83.9	83.9
22.5°	692.5	633.8	391.3	156.4	87.5	80.2	78.5	78.5	79.4	80.2	80.5
25°	704.5	626.6	330.8	112.3	77.2	74.4	73.6	73.8	74.7	75.1	74.8
27.5°	706.4	606.6	266.8	86.0	70.1	67.4	66.4	67.4	66.3	66.9	66.4
30°	708.2	581.3	201.8	72.5	63.7	59.4	58.1	56.8	55.9	54.8	54.7
32.5°	713.6	551.4	147.3	65.2	57.7	52.9	49.9	46.3	43.5	42.6	42.4
35°	715.9	515.4	108.2	59.4	52.3	47.1	41.7	36.6	32.5	30.9	32.0
37.5°	724.9	480.5	83.9	55.1	47.5	41.1	34.2	27.8	23.9	23.0	23.5
40°	743.4	442.7	70.3	51.4	43.5	35.5	27.1	20.9	18.2	17.4	17.2
42.5°	773.1	405.1	62.6	47.9	39.4	29.9	21.3	16.3	14.2	13.5	13.5
45°	809.3	368.9	57.2	44.3	35.1	24.1	16.8	13.1	11.9	11.4	11.4
47.5°	856.8	337.3	52.7	40.6	30.4	19.2	13.5	11.4	10.5	10.8	10.9
50°	905.0	313.9	47.8	36.6	25.0	15.7	11.6	10.1	9.9	10.1	10.1
52.5°	941.4	300.1	41.1	30.9	19.6	13.1	10.3	9.5	9.3	8.8	8.8
55°	990.4	297.1	32.7	25.1	15.5	10.9	9.3	8.6	8.0	7.6	7.3
57.5°	1053.4	300.5	25.1	19.6	12.0	9.0	8.2	7.1	6.2	5.4	5.4
60°	1092.6	292.8	19.6	15.1	8.8	7.3	6.2	5.1	4.1	3.4	3.2
62.5°	1080.1	260.1	15.5	11.2	6.2	5.4	4.1	3.4	2.4	1.7	1.5
65°	1015.8	210.0	12.4	7.7	4.5	3.2	2.2	2.2	1.1	0.3	0.0
67.5°	889.1	155.5	9.9	5.1	2.6	1.5	1.1	0.7	0.0	0.0	0.0
70°	723.7	112.3	7.7	3.2	1.5	1.1	0.4	0.3	0.0	0.0	0.0
72.5°	459.5	64.3	6.1	1.9	1.1	0.4	0.0	0.0	0.0	0.0	0.0
75°	177.7	25.1	4.1	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	50.4	11.9	2.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	13.1	5.1	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.2	2.2	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.6	0.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	0.3	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)