

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: P458532

Luminaire Tested: **GALN-SA1A-735-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458532
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3451 lumens
Efficiency: N/A
Efficacy: 104.6 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

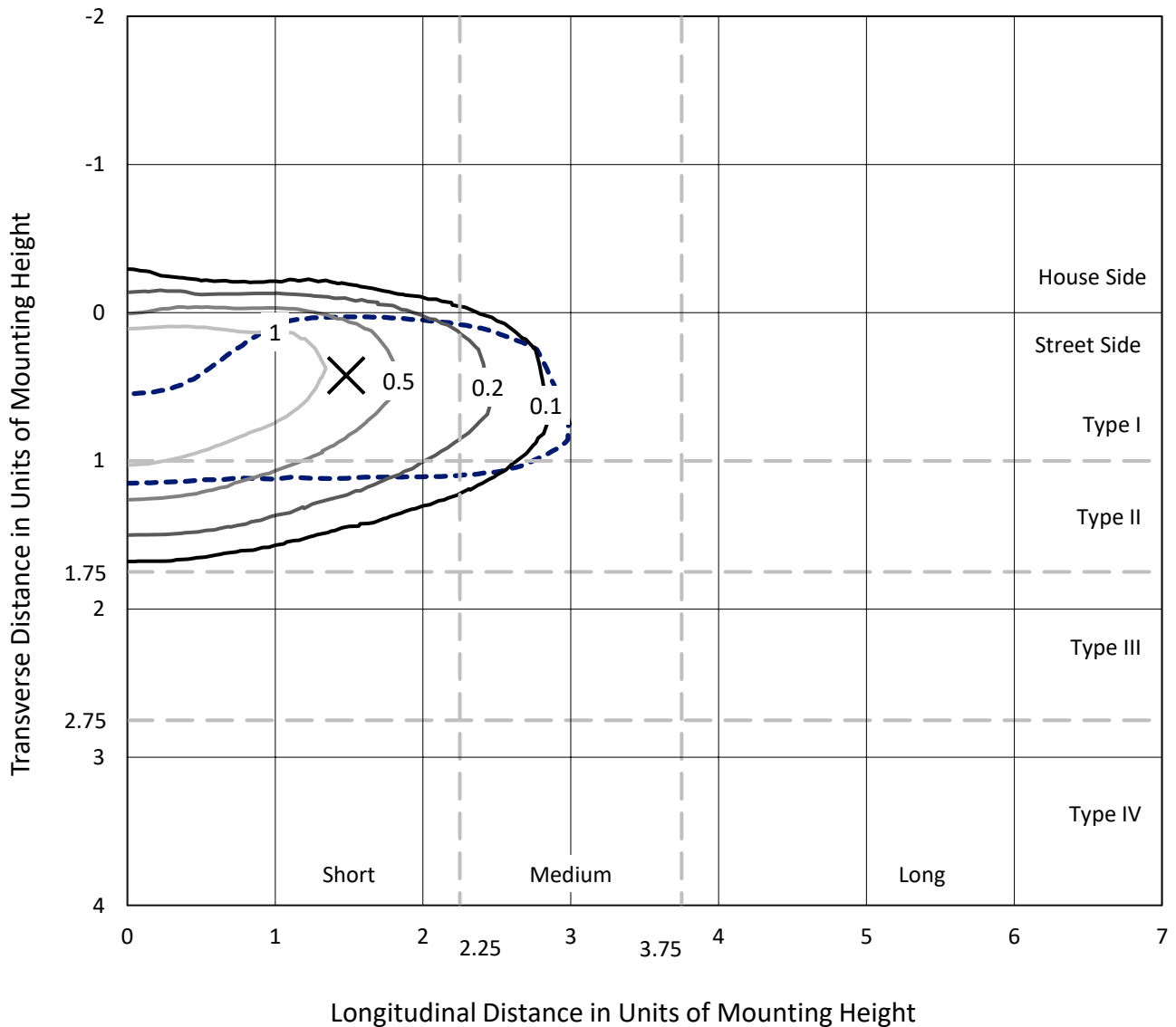
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

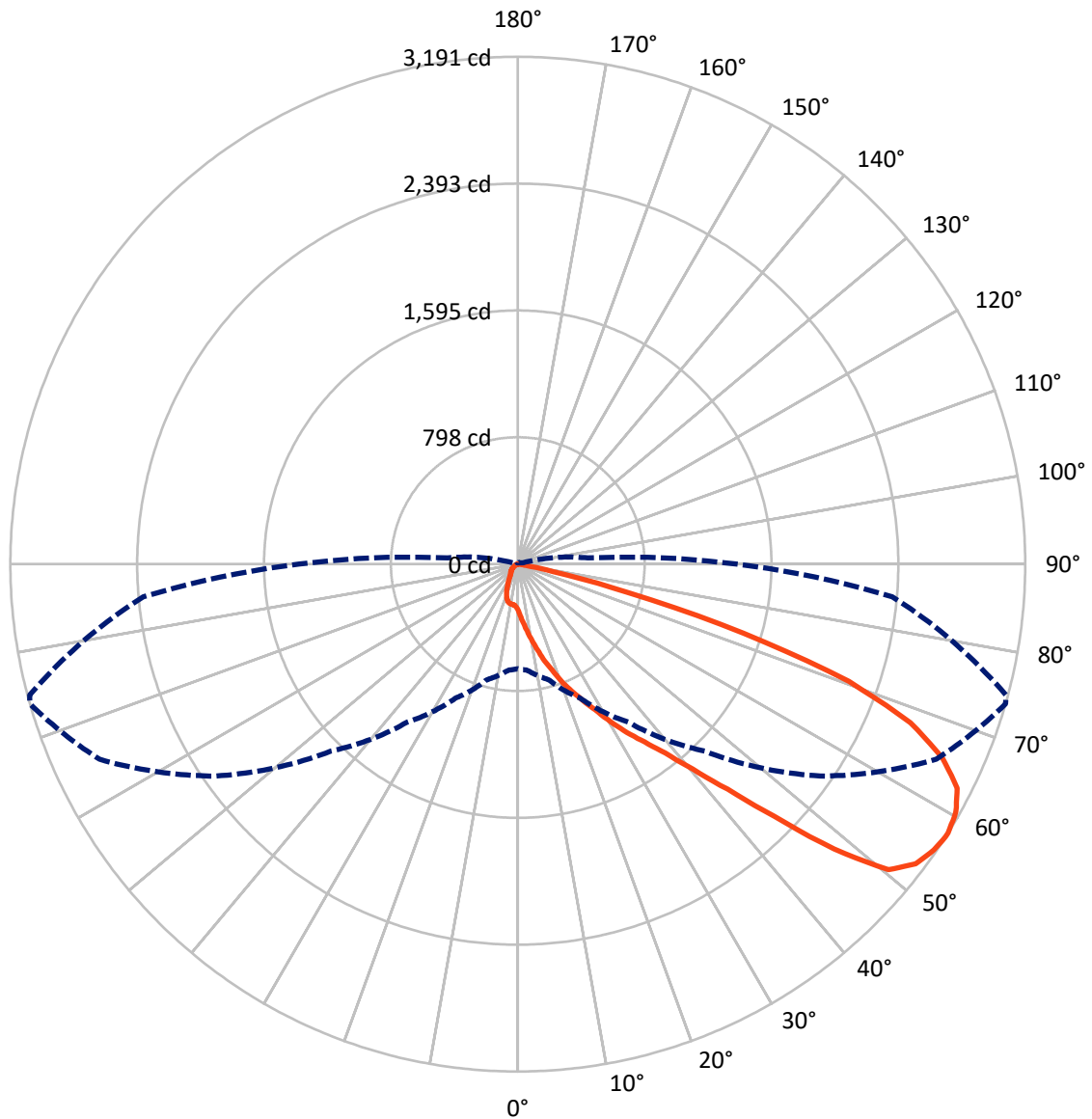
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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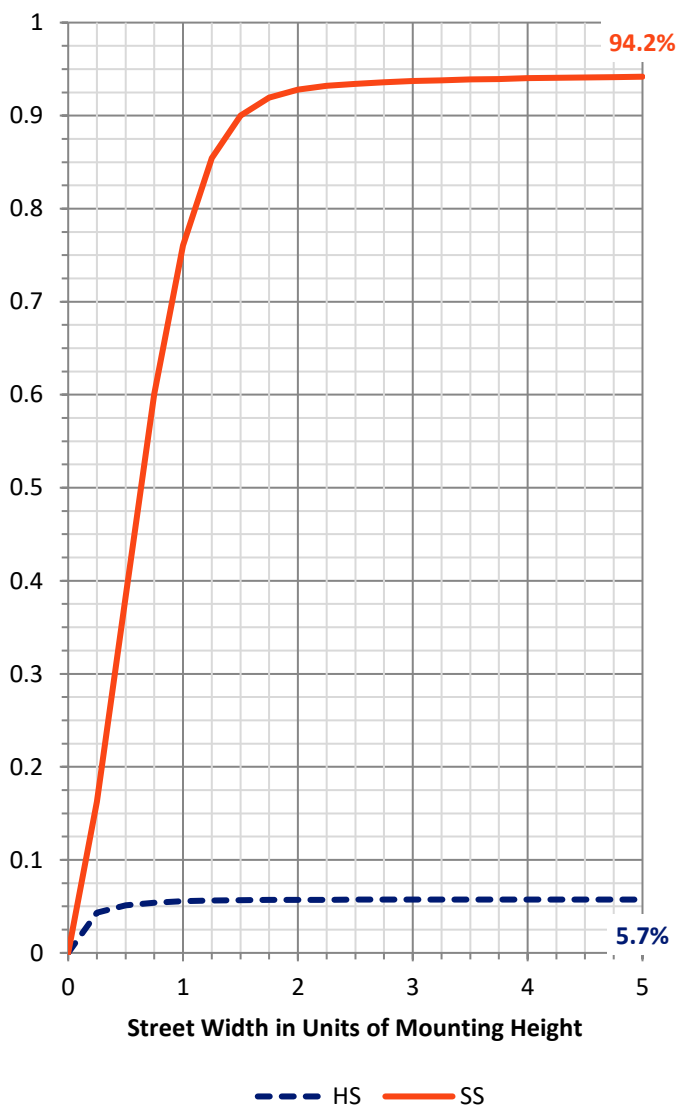
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	199.0	0.0	199.0
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	3252.0	0.0	3252.0
	% Fixture	94.2	0.0	94.2
Total	Lumens	3451.0	0.0	3451.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.9	1.0
10°-20°	137.5	4.0
20°-30°	294.2	8.5
30°-40°	540.8	15.7
40°-50°	829.0	24.0
50°-60°	877.0	25.4
60°-70°	572.7	16.6
70°-80°	156.5	4.5
80°-90°	8.4	0.2
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°	3451.0	100.0
0°-180°	3451.0	100.0

Coefficient of Utilization



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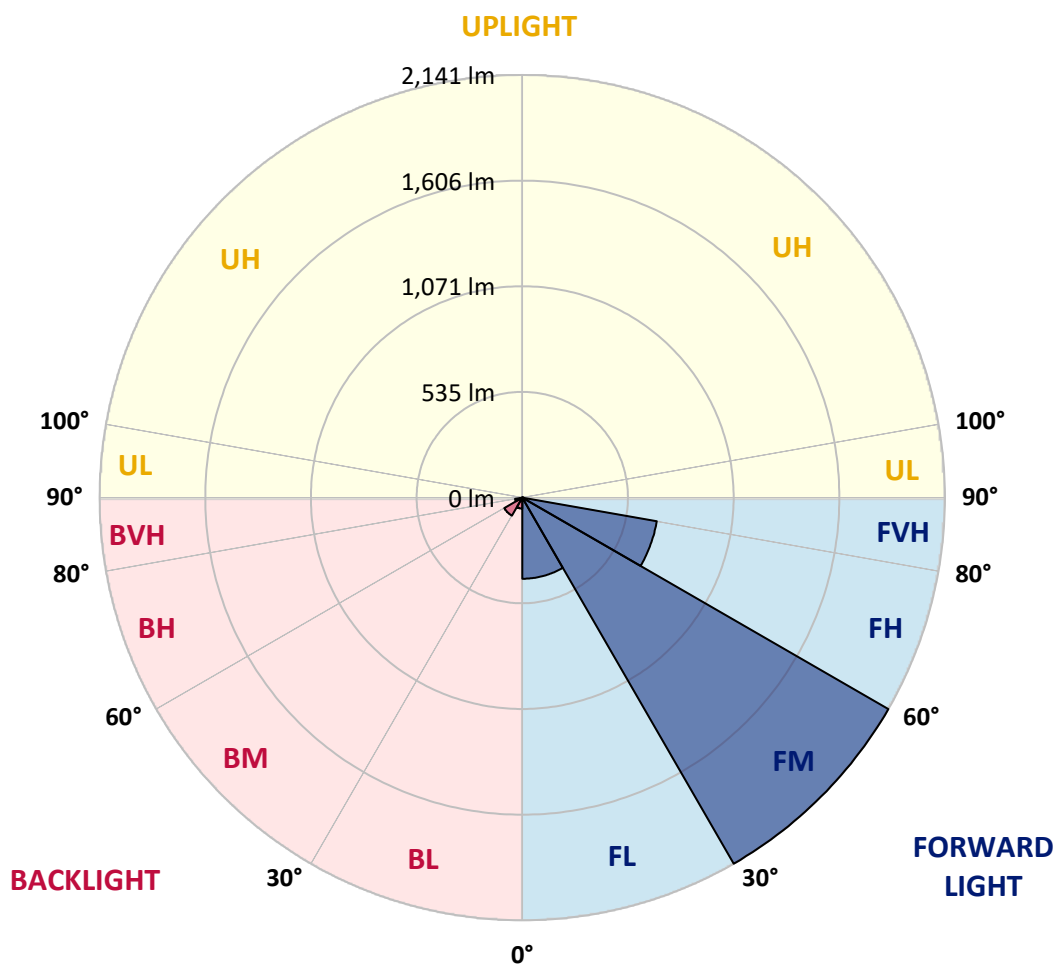
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	411.0	11.9			
FM (30°-60°)	2141.4	62.1			
FH (60°-80°)	691.8	20.0			G1/1800
FVH (80°-90°)	7.7	0.2			G0/10
BL (0°-30°)	55.6	1.6	B0/110		
BM (30°-60°)	105.4	3.1	B0/220		
BH (60°-80°)	37.4	1.1	B0/110		G0/110
BVH (80°-90°)	0.7	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°	74°	75°	85°
0°	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0
2.5°	422.9	419.1	411.5	408.9	397.7	380.3	365.0	344.5	328.3	326.7	307.1
5°	566.4	557.8	554.2	537.1	510.1	484.9	441.5	408.6	370.7	367.9	328.6
7.5°	704.6	692.6	689.1	672.9	641.4	601.6	545.4	485.6	425.5	420.1	357.4
10°	804.6	806.3	799.9	789.1	763.6	723.1	653.8	572.1	486.5	479.6	389.8
12.5°	876.3	876.1	877.3	877.1	863.5	832.7	759.8	665.7	553.7	540.1	427.0
15°	923.0	923.8	927.3	939.7	941.2	922.1	861.3	755.3	631.6	614.7	467.2
17.5°	970.2	975.2	980.9	992.6	1003.1	995.5	952.6	848.7	702.2	689.5	510.4
20°	1048.1	1055.0	1051.7	1058.9	1064.3	1065.0	1031.9	935.0	787.7	766.5	559.7
22.5°	1172.7	1172.5	1163.9	1151.1	1140.3	1139.9	1109.8	1023.6	865.4	844.9	609.2
25°	1330.2	1331.0	1314.3	1277.6	1250.9	1218.3	1183.7	1101.3	948.5	923.3	661.4
27.5°	1510.8	1506.3	1481.1	1430.5	1377.7	1321.9	1272.1	1191.6	1036.7	1015.7	721.2
30°	1673.1	1671.4	1641.9	1580.2	1510.6	1454.6	1382.4	1304.7	1150.8	1125.1	788.2
32.5°	1824.2	1826.5	1785.6	1721.7	1654.5	1589.9	1513.7	1412.9	1262.8	1226.4	861.1
35°	1942.1	1944.5	1902.1	1848.9	1779.8	1726.2	1653.6	1528.2	1373.4	1342.6	945.0
37.5°	2005.0	2008.1	1983.6	1943.5	1900.4	1873.5	1805.8	1676.7	1507.7	1489.2	1044.1
40°	2016.9	2020.5	2009.8	1999.1	1996.7	2016.0	1996.2	1851.6	1694.1	1665.0	1191.8
42.5°	1981.2	1985.9	1990.7	2014.5	2063.1	2133.9	2202.8	2088.9	1934.0	1894.9	1372.4
45°	1887.3	1886.8	1905.7	1967.4	2076.3	2227.3	2418.6	2386.0	2260.9	2214.4	1627.6
47.5°	1726.7	1724.3	1765.1	1853.0	2022.6	2244.5	2594.7	2746.7	2678.1	2635.2	1901.8
50°	1482.0	1493.7	1557.8	1680.5	1889.5	2192.5	2649.0	2983.3	3020.5	2975.0	2123.4
52.5°	1195.4	1194.9	1295.5	1462.0	1692.2	2078.2	2611.2	3026.2	3131.8	3097.0	2232.6
55°	884.7	890.9	995.5	1163.5	1436.0	1869.4	2487.5	2982.1	3174.2	3149.6	2304.5
57°	658.1	669.1	752.9	930.7	1213.0	1662.9	2322.9	2903.3	3190.9	3177.5	2364.3
57.5°	614.2	614.7	696.5	858.0	1147.7	1583.5	2275.7	2870.4	3190.4	3183.0	2374.1
60°	378.1	390.0	446.5	579.9	840.1	1235.9	1959.5	2681.4	3165.6	3176.3	2415.8
62.5°	226.4	231.4	268.0	349.5	541.6	902.1	1603.5	2439.6	3101.0	3133.7	2412.9
65°	145.6	146.8	163.5	211.6	338.6	609.7	1235.6	2120.1	2934.0	2994.1	2318.6
67.5°	112.5	114.4	121.0	138.9	196.3	379.8	874.0	1779.1	2663.8	2741.3	2089.8
70°	99.8	100.8	103.2	108.9	129.9	214.4	543.7	1389.8	2209.0	2230.9	1635.5
72.5°	81.5	84.1	91.5	93.4	102.9	133.9	302.6	932.8	1484.2	1489.6	914.9
75°	63.1	63.6	74.6	80.1	86.7	92.2	135.1	470.3	712.9	674.8	352.6
77.5°	47.2	49.3	54.3	61.2	70.8	66.0	60.5	177.3	221.3	217.3	102.5
80°	30.3	31.5	37.9	46.0	55.0	43.1	34.1	51.9	48.6	50.0	24.5
82.5°	15.2	15.5	24.3	37.4	35.0	21.7	21.4	21.2	18.1	17.9	11.4
85°	1.7	3.6	15.7	21.4	15.7	7.1	10.0	9.8	9.5	9.8	6.7
87.5°	0.2	0.2	2.6	3.1	2.1	2.4	2.9	3.1	3.8	3.6	2.9
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°	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0	289.0
2.5°	297.6	288.1	270.4	253.5	240.9	232.8	222.3	218.5	213.0	212.3	209.7
5°	310.5	292.4	261.6	237.3	217.8	203.0	190.1	179.4	170.8	168.9	169.9
7.5°	328.8	301.9	259.0	225.9	198.7	173.5	153.0	140.3	131.3	127.9	128.4
10°	349.5	314.5	258.5	213.7	172.3	141.3	118.9	107.7	102.5	100.5	98.4
12.5°	374.1	329.0	257.3	194.9	143.2	112.7	96.7	90.1	85.1	83.6	83.6
15°	401.7	344.5	251.6	171.6	116.3	93.2	82.4	77.2	75.5	74.1	74.1
17.5°	430.5	359.8	239.7	142.7	96.5	79.8	73.1	70.1	67.7	66.0	66.0
20°	463.4	374.8	220.6	117.2	81.5	71.2	66.0	62.4	60.5	59.1	58.6
22.5°	494.6	386.9	196.3	96.3	71.0	64.1	59.3	55.5	53.6	52.9	52.9
25°	527.0	394.3	167.0	79.6	64.8	58.1	52.9	49.8	48.1	47.7	47.4
27.5°	558.5	398.6	141.3	69.6	59.1	52.7	47.7	45.3	43.6	43.1	43.4
30°	596.6	399.3	116.3	62.4	54.1	47.4	42.9	40.7	39.8	39.3	39.1
32.5°	635.2	398.4	97.7	58.1	49.3	42.9	39.1	37.4	36.7	36.0	36.0
35°	678.6	393.4	83.2	53.8	44.8	39.1	35.7	34.3	33.4	32.6	32.4
37.5°	732.4	390.8	74.8	49.1	40.7	35.5	32.4	31.0	30.3	29.3	29.1
40°	817.3	402.4	72.2	44.8	36.7	32.2	29.3	27.6	26.7	25.7	25.5
42.5°	923.0	422.9	67.9	40.5	33.1	29.1	26.2	24.3	22.6	21.4	21.0
45°	1060.0	449.8	61.2	36.0	30.0	25.7	23.1	20.7	18.6	17.6	17.4
47.5°	1203.7	475.8	55.3	32.4	26.7	22.9	20.0	17.4	15.5	14.8	14.5
50°	1291.9	481.1	51.5	28.4	23.4	19.8	16.9	14.5	13.3	12.6	12.6
52.5°	1332.1	472.7	46.2	24.8	20.3	17.4	14.5	12.6	11.9	11.4	11.2
55°	1360.3	459.9	39.3	21.4	17.4	14.8	12.9	11.4	10.5	10.0	9.8
57°	1376.7	442.5	34.1	18.8	15.0	12.9	11.4	10.2	9.3	8.3	8.3
57.5°	1377.4	435.8	32.6	18.6	14.3	12.4	11.2	10.0	8.8	7.9	7.6
60°	1356.2	390.0	26.2	15.7	11.4	10.5	9.3	7.9	6.2	5.2	5.0
62.5°	1288.1	331.9	21.7	13.3	9.3	8.1	6.7	6.0	4.3	3.1	3.1
65°	1184.9	269.2	18.6	10.7	7.6	6.0	4.5	4.3	2.6	1.4	1.2
67.5°	1035.7	209.7	15.7	8.8	6.4	4.3	3.1	2.9	1.4	0.5	0.0
70°	789.1	143.0	13.1	7.1	4.8	3.1	2.1	1.7	1.0	0.2	0.0
72.5°	454.8	78.6	11.0	5.5	3.6	2.4	1.7	1.0	1.0	0.0	0.0
75°	162.5	33.8	8.3	4.1	2.9	1.9	1.2	0.5	0.7	0.2	0.0
77.5°	51.7	18.1	5.5	3.1	2.4	1.4	1.0	0.5	0.5	0.2	0.0
80°	15.2	9.5	3.3	2.6	1.7	1.2	0.7	0.2	0.5	0.2	0.0
82.5°	8.3	4.8	2.6	1.9	1.7	1.0	0.7	0.2	0.2	0.2	0.0
85°	4.3	2.9	2.1	1.9	1.7	1.0	0.7	0.2	0.0	0.2	0.2
87.5°	2.4	2.1	2.1	1.9	1.7	1.2	0.7	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)