

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: P648225

Luminaire Tested: **GALN-SA1B-835-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648225  
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-835-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 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: 3370 lumens  
Efficiency: N/A  
Efficacy: 76.6 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

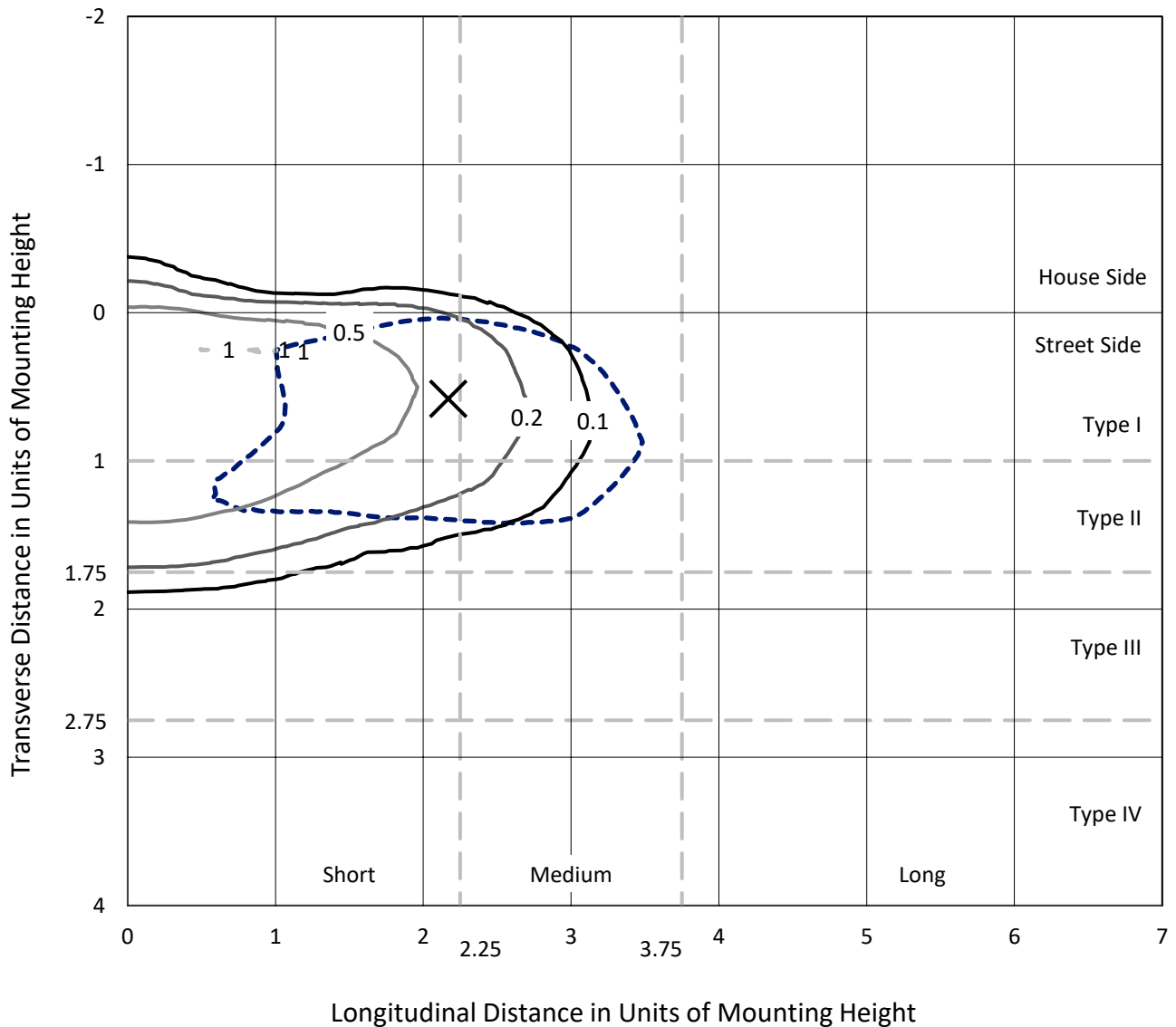
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

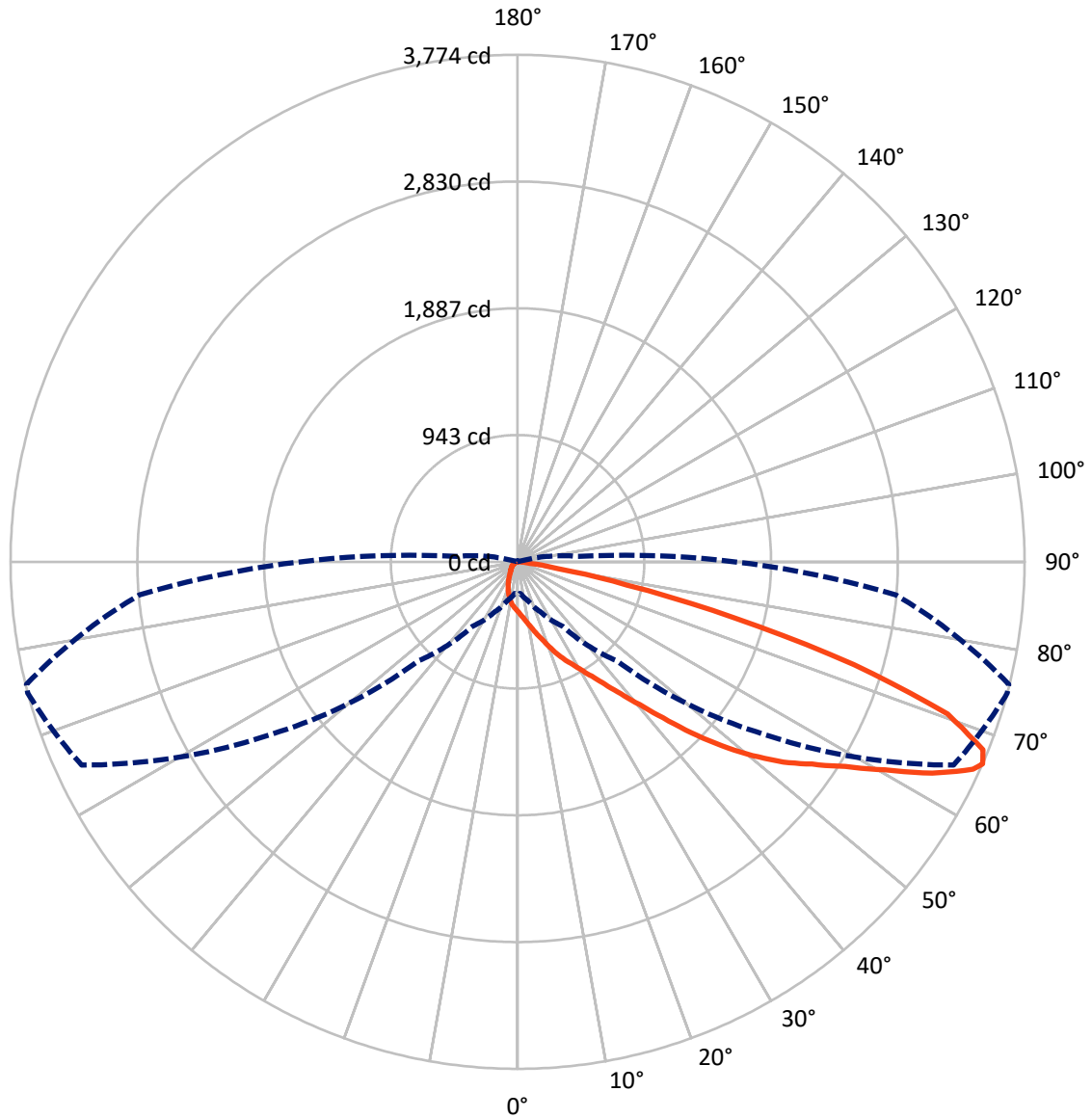
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type 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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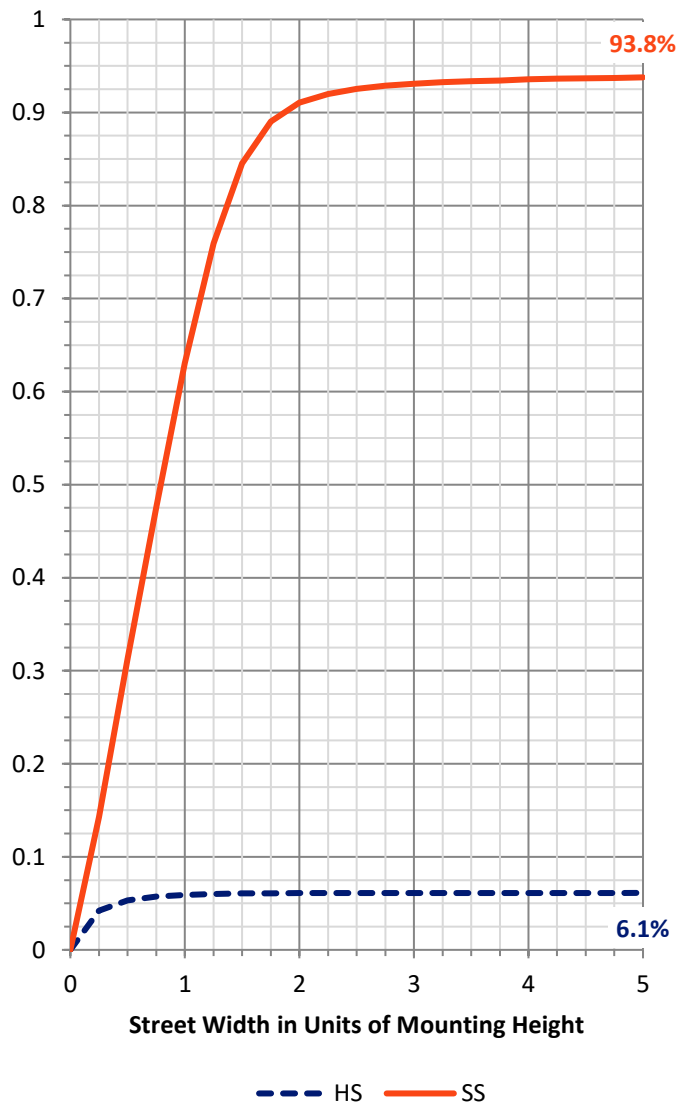
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	208.1	0.0	208.1
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	3162.0	0.0	3162.0
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	3370.0	0.0	3370.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.5	1.1
10°-20°	104.6	3.1
20°-30°	180.6	5.4
30°-40°	325.9	9.7
40°-50°	588.7	17.5
50°-60°	917.7	27.2
60°-70°	871.8	25.9
70°-80°	326.7	9.7
80°-90°	18.4	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°	3370.0	100.0
0°-180°	3370.0	100.0

**Coefficient of Utilization**

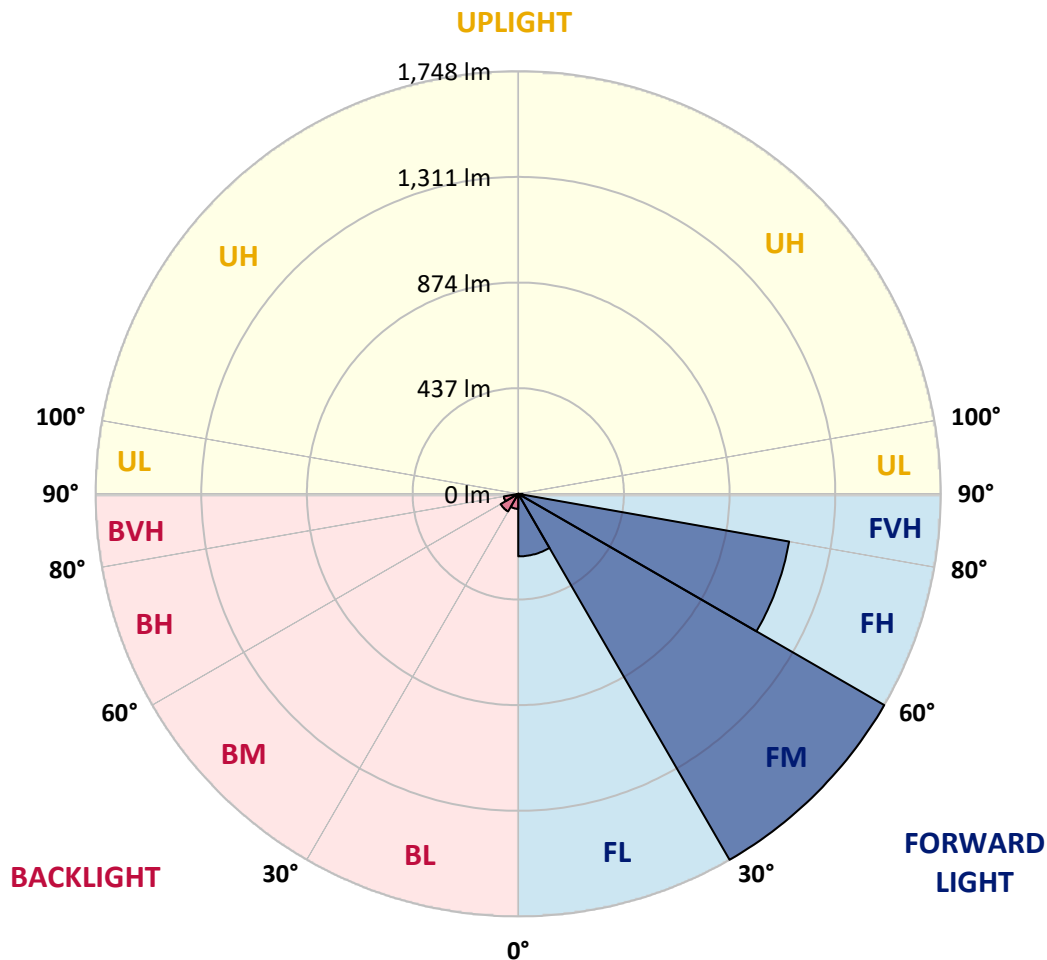


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	258.7	7.7			
FM (30°-60°)	1748.0	51.9			
FH (60°-80°)	1137.8	33.8			G1/1800
FVH (80°-90°)	17.5	0.5			G1/100
BL (0°-30°)	62.1	1.8	B0/110		
BM (30°-60°)	84.2	2.5	B0/220		
BH (60°-80°)	60.8	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°	368.6	368.6	368.6	368.6	368.6	368.6	368.6	368.6	368.6	368.6	368.6
2.5°	440.3	434.8	436.6	434.1	428.4	419.8	412.4	401.7	391.0	389.2	377.2
5°	498.4	496.9	494.9	487.7	483.7	470.7	455.2	436.8	414.7	410.7	389.0
7.5°	538.0	537.2	538.2	534.5	531.0	519.3	502.8	477.7	443.3	441.1	404.9
10°	550.9	553.0	556.7	562.7	568.1	564.4	551.9	520.5	480.4	473.9	423.1
12.5°	543.5	545.8	554.7	570.7	588.3	598.5	593.6	570.7	519.8	514.6	443.6
15°	524.3	527.0	539.7	564.4	596.0	625.0	637.4	621.0	565.6	557.2	468.2
17.5°	495.9	499.9	518.0	550.7	594.1	643.9	679.0	673.5	614.5	606.5	495.2
20°	474.4	477.5	492.9	530.2	585.6	654.4	718.6	734.1	674.8	661.1	526.8
22.5°	488.7	489.7	494.9	517.3	570.4	657.1	753.6	797.2	738.8	726.6	559.7
25°	558.2	548.2	543.0	538.0	567.1	654.6	785.2	862.9	802.7	789.7	592.3
27.5°	667.8	663.4	636.9	601.5	594.8	657.9	806.1	925.2	862.7	848.7	624.2
30°	787.1	779.5	763.3	711.4	659.4	680.7	821.3	985.8	933.7	915.2	653.3
32.5°	896.8	901.8	877.7	824.3	764.0	729.6	841.0	1051.8	1015.2	992.3	687.2
35°	1024.6	1034.7	997.5	946.4	875.9	817.8	879.4	1126.3	1118.6	1089.7	739.6
37.5°	1154.5	1160.5	1137.8	1066.1	1002.5	930.0	951.7	1218.3	1245.9	1221.2	802.1
40°	1263.6	1271.8	1255.1	1191.3	1123.6	1059.8	1056.6	1318.4	1397.4	1372.1	895.4
42.5°	1347.1	1353.3	1353.8	1308.7	1247.7	1218.7	1190.4	1446.3	1587.3	1557.9	1003.5
45°	1452.5	1461.5	1456.2	1425.6	1380.0	1374.8	1360.1	1600.8	1814.6	1777.4	1143.7
47.5°	1615.5	1621.4	1608.5	1572.3	1526.0	1534.2	1525.5	1774.0	2046.3	2014.4	1289.1
50°	1728.6	1738.6	1757.0	1771.5	1737.8	1707.4	1681.5	1935.7	2266.3	2237.7	1437.6
52.5°	1727.4	1743.8	1802.2	1874.9	1948.4	1939.2	1864.6	2114.3	2476.4	2441.0	1577.1
55°	1611.0	1642.9	1728.6	1857.7	2061.2	2162.7	2128.8	2321.2	2657.8	2633.9	1738.8
57.5°	1370.8	1390.2	1509.3	1689.7	1998.2	2267.9	2434.8	2601.5	2875.3	2864.1	1990.0
60°	922.0	930.7	1084.0	1307.0	1701.2	2163.0	2659.1	2940.6	3143.2	3137.7	2283.3
62.5°	528.3	532.0	643.2	831.3	1210.5	1833.0	2678.0	3359.0	3464.5	3467.4	2622.7
65°	284.3	286.3	376.0	487.9	736.6	1306.5	2408.1	3588.3	3724.1	3729.8	2833.0
66°	245.5	236.0	299.3	415.9	586.1	1039.8	2237.4	3580.0	3773.9	3767.7	2825.5
67.5°	186.7	195.1	239.0	319.7	434.3	739.3	1847.3	3420.8	3736.1	3716.6	2710.7
70°	133.6	137.0	170.2	228.0	295.8	405.7	1180.4	2841.2	3395.6	3369.5	2361.5
72.5°	86.2	90.0	120.6	165.0	213.8	221.5	660.9	2052.8	2618.0	2614.2	1778.4
75°	61.5	65.1	79.7	118.1	160.7	137.0	318.2	1383.5	1664.3	1653.1	1100.2
77.5°	44.6	46.4	53.3	77.3	114.9	98.2	147.5	738.8	828.6	867.6	486.2
80°	25.7	27.2	37.1	47.1	77.8	67.0	70.5	296.5	305.8	291.0	152.0
82.5°	12.7	14.5	22.2	32.2	48.6	45.1	32.4	89.2	94.2	91.7	38.4
85°	3.0	3.8	12.4	21.2	23.6	20.2	15.7	26.2	32.4	31.6	14.7
87.5°	0.2	0.5	4.5	3.8	4.0	6.7	5.5	6.7	10.5	9.7	5.2
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°	368.6	368.6	368.6	368.6	368.6	368.6	368.6	368.6	368.6	368.6	368.6
2.5°	371.8	367.1	353.4	339.9	328.7	317.0	306.2	300.0	297.5	294.8	296.1
5°	377.0	365.6	337.9	314.0	290.6	270.6	254.6	244.5	239.4	238.7	237.5
7.5°	384.0	364.3	321.4	284.1	253.5	231.2	213.1	198.3	193.9	189.9	186.7
10°	392.4	362.1	301.0	252.7	220.0	192.1	168.2	150.7	141.8	139.3	141.0
12.5°	401.4	357.8	279.6	223.8	186.1	150.5	128.3	119.6	117.1	116.1	116.4
15°	410.4	352.6	257.1	195.8	148.3	120.1	109.9	107.7	106.6	106.2	105.6
17.5°	418.7	344.1	232.0	168.7	120.1	102.7	98.9	96.9	95.0	94.2	92.9
20°	428.4	334.4	209.3	138.3	101.6	92.9	88.5	84.7	81.7	79.7	79.5
22.5°	437.5	322.0	185.6	114.6	92.7	83.5	76.3	72.3	68.7	66.3	67.0
25°	442.6	306.8	164.4	99.9	84.5	74.0	66.0	61.1	57.3	56.1	55.8
27.5°	442.6	288.1	143.8	91.5	77.0	65.5	57.3	52.5	50.1	48.3	48.6
30°	439.0	267.4	124.6	85.0	70.5	58.1	50.3	46.1	44.1	42.8	42.6
32.5°	436.3	247.7	108.1	78.8	63.8	51.6	44.9	41.6	39.6	38.4	38.4
35°	440.6	230.8	95.4	72.5	57.6	46.6	40.6	37.7	35.6	34.6	34.4
37.5°	451.8	215.3	85.7	65.8	51.8	42.4	37.7	34.1	32.2	30.9	30.4
40°	479.4	206.6	78.5	59.6	46.4	38.8	34.1	30.9	28.4	27.2	26.9
42.5°	523.8	206.8	71.5	53.8	42.1	35.9	31.2	27.4	24.7	23.4	23.2
45°	590.5	216.3	66.0	48.3	38.4	32.7	27.9	24.0	21.5	20.2	20.2
47.5°	670.6	234.7	61.3	43.6	34.9	29.7	24.7	20.7	18.2	17.2	17.2
50°	757.2	258.6	56.5	38.6	31.9	26.4	21.2	17.9	16.0	15.2	15.2
52.5°	845.7	287.6	51.8	34.6	28.7	22.9	18.2	16.0	14.2	13.7	13.5
55°	961.8	324.5	46.8	30.4	25.1	19.7	16.2	13.9	12.0	11.2	11.0
57.5°	1140.5	380.0	41.3	26.7	20.7	16.4	13.9	11.7	9.5	8.2	8.0
60°	1356.1	447.8	35.6	23.4	16.7	13.5	11.2	9.0	7.0	5.5	5.2
62.5°	1557.9	490.9	30.1	19.7	13.2	10.2	8.0	6.7	5.0	3.5	3.2
65°	1647.1	476.5	24.9	16.0	10.5	7.2	5.2	4.7	3.0	1.5	1.3
66°	1617.4	455.0	22.9	14.5	9.5	6.3	4.5	4.0	2.3	0.8	0.8
67.5°	1530.0	404.4	20.0	12.4	8.2	5.0	3.5	3.0	1.3	0.2	0.0
70°	1311.0	327.2	15.7	9.2	6.0	3.5	2.0	1.5	0.8	0.0	0.0
72.5°	1006.9	243.7	12.4	7.0	4.2	2.0	1.0	0.5	0.8	0.0	0.0
75°	617.0	139.3	9.7	5.2	2.7	1.3	0.8	0.0	0.8	0.2	0.0
77.5°	273.9	62.6	6.5	3.5	2.0	1.0	0.5	0.0	0.5	0.2	0.0
80°	69.3	20.4	3.8	2.5	1.5	0.8	0.2	0.0	0.5	0.5	0.2
82.5°	18.9	7.4	2.7	2.0	1.3	0.8	0.2	0.0	0.5	0.5	0.5
85°	7.4	3.5	2.5	2.0	1.5	0.8	0.2	0.0	0.5	0.5	0.5
87.5°	3.5	2.5	2.5	2.3	1.7	0.8	0.2	0.0	0.5	0.2	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)