

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: P647745

Luminaire Tested: **GALN-SA1A-835-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647745  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1A-835-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD  
THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3615.1 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

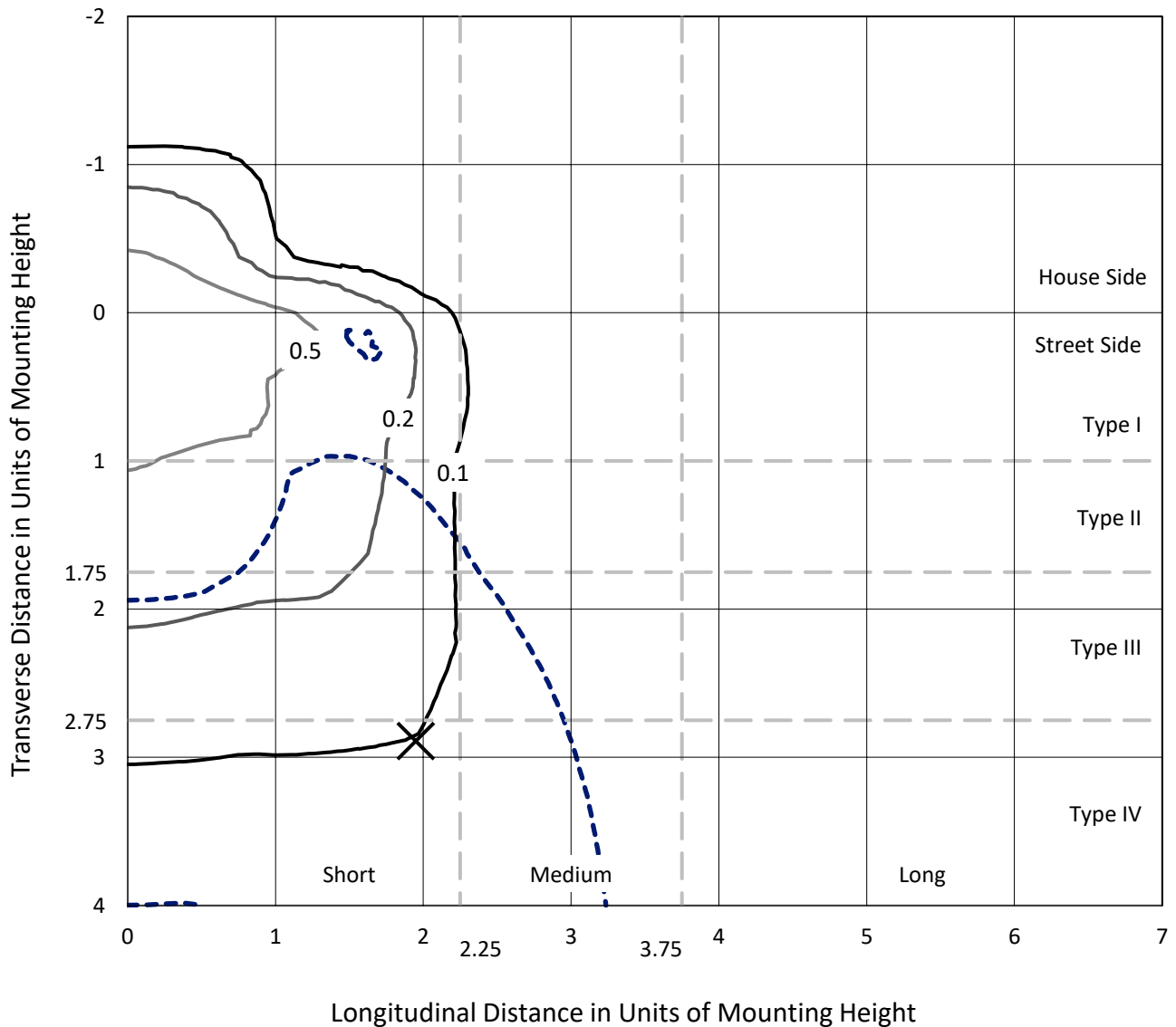
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

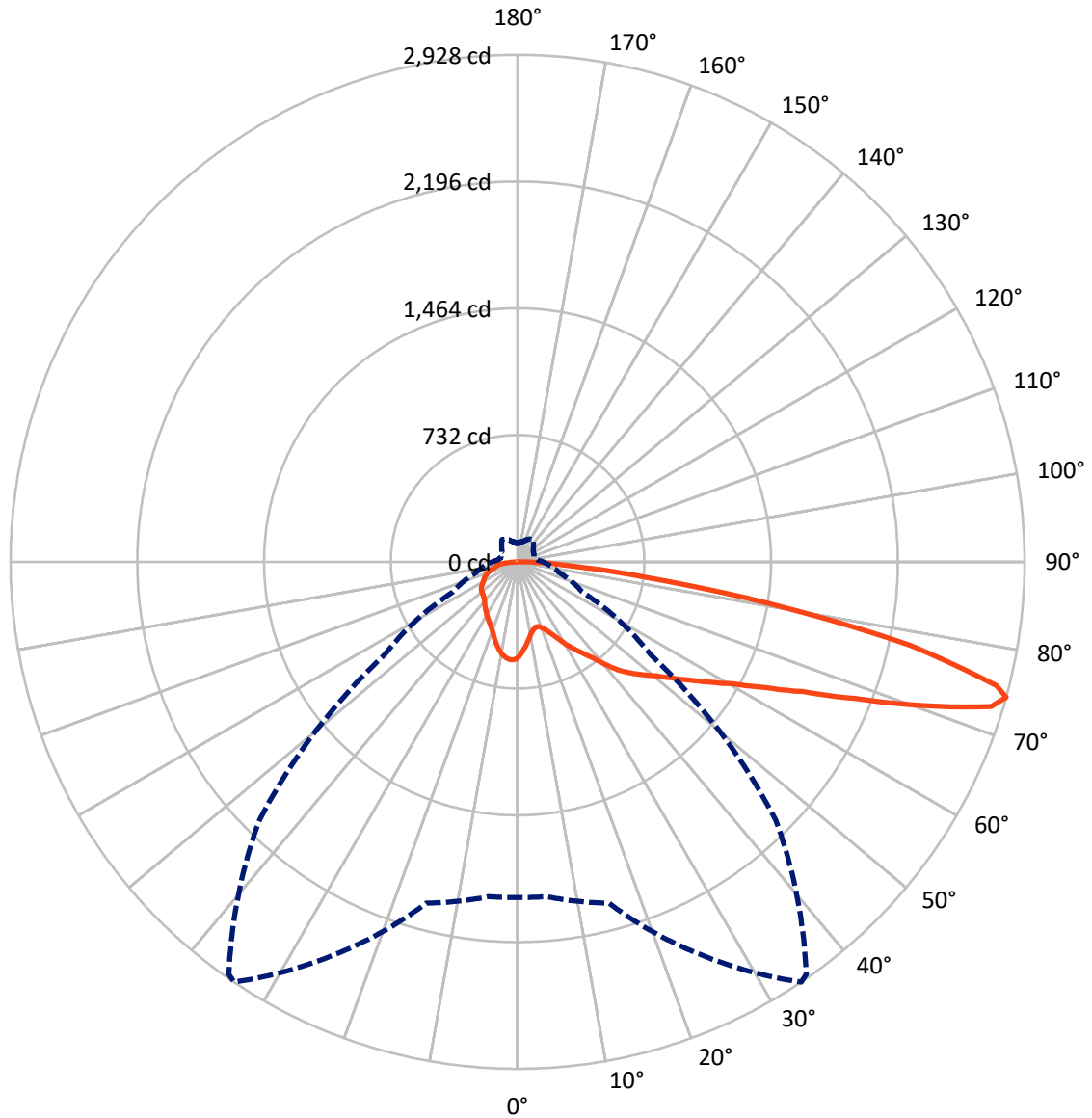
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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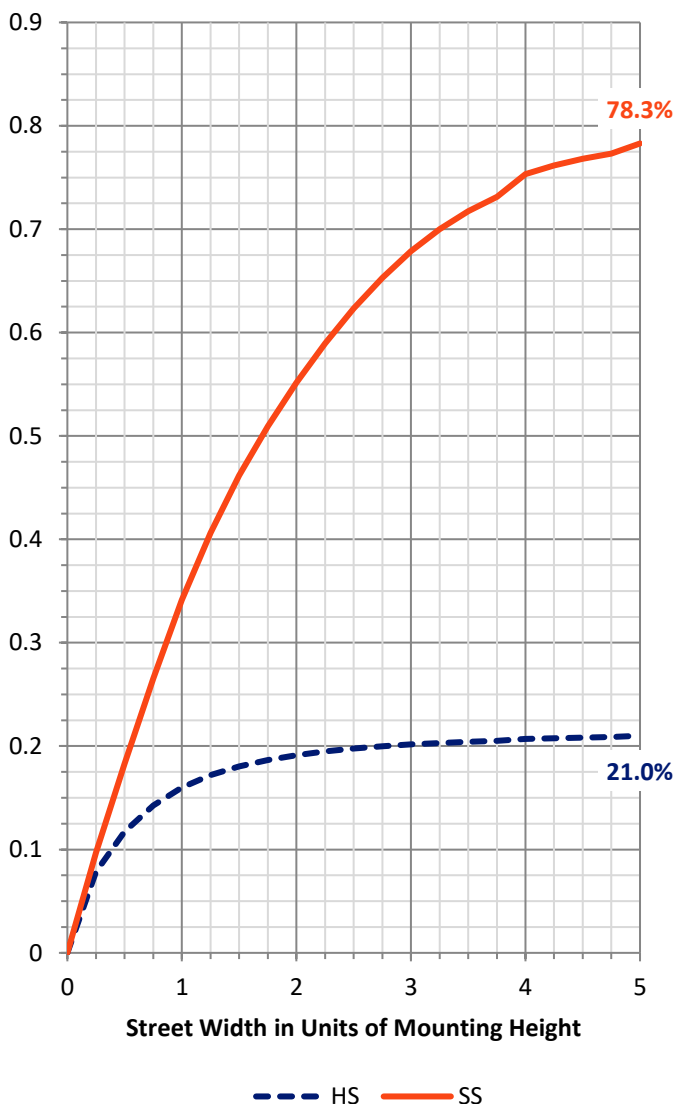
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	769.3	0.0	769.3
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	2845.8	0.0	2845.8
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	3615.1	0.0	3615.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.2	1.4
10°-20°	137.4	3.8
20°-30°	226.6	6.3
30°-40°	339.4	9.4
40°-50°	493.3	13.6
50°-60°	689.1	19.1
60°-70°	862.7	23.9
70°-80°	713.4	19.7
80°-90°	103.1	2.9
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°	3615.1	100.0
0°-180°	3615.1	100.0

**Coefficient of Utilization**



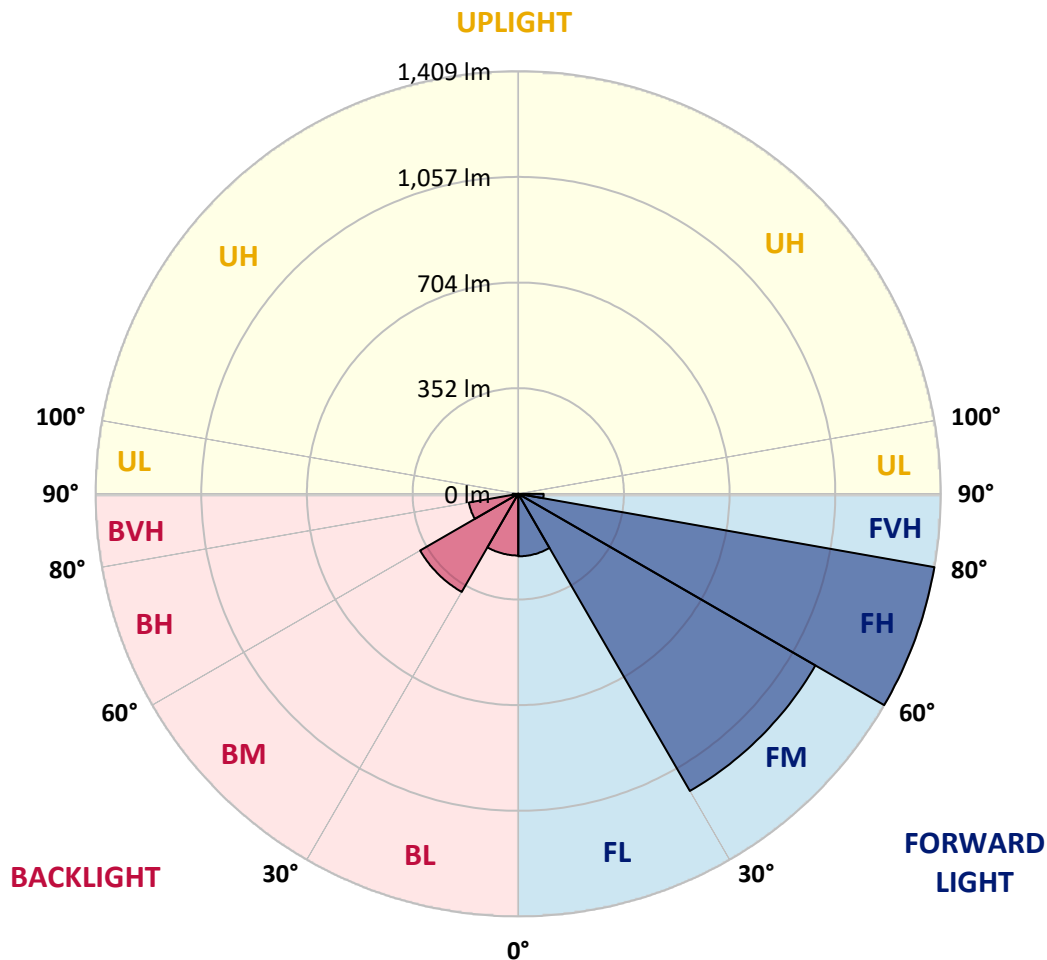
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	208.4	5.8			
FM (30°-60°)	1144.0	31.6			
FH (60°-80°)	1409.0	39.0			G1/1800
FVH (80°-90°)	84.4	2.3			G1/100
BL (0°-30°)	205.8	5.7	B1/500		
BM (30°-60°)	377.8	10.5	B1/1000		
BH (60°-80°)	167.1	4.6	B1/500		G1/500
BVH (80°-90°)	18.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	551.9	551.9	551.9	551.9	551.9	551.9	551.9	551.9	551.9	551.9	551.9
2.5°	510.1	512.7	514.1	519.1	520.3	521.9	526.1	531.7	538.9	545.4	550.9
5°	467.6	471.7	474.0	478.5	487.1	487.9	499.1	511.9	526.5	540.1	551.4
7.5°	427.4	431.8	433.8	441.8	453.2	455.0	471.4	491.6	516.1	536.7	554.0
10°	397.1	399.3	403.7	409.7	423.4	424.5	446.0	473.0	504.7	535.1	558.4
12.5°	380.7	381.9	382.9	389.3	402.8	404.6	427.0	457.7	495.7	536.4	565.6
15°	383.1	383.5	379.1	380.3	391.1	393.8	416.0	447.4	490.1	539.3	576.4
17.5°	403.3	401.9	391.1	385.5	393.1	394.3	413.7	443.4	487.5	545.0	587.6
20°	435.2	433.2	414.6	402.1	406.5	407.6	420.9	446.4	490.1	554.1	605.0
22.5°	474.8	474.0	445.8	430.8	430.6	430.6	437.6	457.2	497.9	566.8	623.3
25°	530.3	526.1	489.3	469.9	464.4	464.0	463.2	475.0	507.9	580.2	644.9
27.5°	587.2	580.0	547.2	517.3	505.7	504.3	499.1	500.3	520.7	595.4	669.5
30°	638.3	633.7	602.8	569.8	555.9	552.7	538.3	531.7	542.1	622.9	708.8
32.5°	677.3	674.6	650.5	620.4	600.0	599.4	578.4	573.0	575.6	656.1	753.6
35°	709.0	709.9	697.7	671.7	648.3	644.9	630.9	624.1	616.5	704.2	810.1
37.5°	752.2	754.4	753.6	731.2	702.6	703.4	700.2	689.0	668.7	757.9	872.8
40°	799.9	801.5	801.3	792.7	777.7	778.5	777.3	764.4	734.2	826.1	942.5
42.5°	865.8	858.2	838.4	847.0	855.7	859.6	867.8	855.6	814.1	899.0	1008.0
45°	939.5	925.0	880.2	884.2	916.9	924.1	969.4	952.5	900.8	982.7	1085.1
47.5°	986.0	971.7	933.9	933.1	976.3	983.4	1063.5	1057.3	979.8	1073.1	1179.2
50°	1027.4	1025.4	982.7	992.9	1035.2	1045.6	1166.0	1160.2	1058.5	1179.6	1281.8
52.5°	1088.9	1072.6	1038.6	1059.6	1115.5	1129.2	1267.8	1250.7	1130.7	1273.7	1381.3
55°	1116.6	1112.7	1110.7	1128.9	1205.7	1215.5	1366.6	1327.7	1192.4	1353.4	1457.0
57.5°	1190.4	1183.4	1203.2	1215.7	1311.8	1326.8	1470.0	1407.9	1246.5	1416.8	1493.8
60°	1286.2	1282.3	1300.6	1323.0	1430.4	1453.2	1587.8	1476.4	1290.0	1448.6	1473.6
62.5°	1429.1	1428.7	1425.4	1473.4	1598.4	1619.4	1723.0	1543.1	1296.8	1424.7	1369.1
65°	1634.2	1627.0	1597.4	1649.9	1807.5	1832.1	1863.8	1580.3	1255.7	1302.4	1152.8
67.5°	1848.7	1848.3	1824.3	1892.4	2107.7	2133.1	2039.8	1572.2	1141.8	1055.0	818.7
70°	2026.6	2017.9	2048.6	2230.1	2491.2	2520.6	2193.8	1475.4	909.5	696.8	486.5
72.5°	2069.2	2069.6	2133.3	2490.4	2859.5	2864.1	2249.2	1195.9	608.6	384.3	243.4
74°	1937.8	1941.3	2040.0	2503.4	2928.2	2907.4	2107.5	939.9	411.5	251.0	175.5
75°	1768.8	1747.4	1890.2	2416.7	2856.9	2834.5	1941.4	754.3	314.1	200.4	153.6
77.5°	945.7	967.6	1187.8	1803.5	2321.0	2295.1	1316.4	361.7	169.6	139.6	110.6
80°	336.7	371.3	521.9	943.7	1488.0	1496.1	628.3	165.8	119.3	103.0	78.1
82.5°	137.4	141.2	224.1	418.7	755.7	762.9	256.6	98.5	85.3	70.9	46.7
85°	53.6	55.3	99.1	188.2	322.4	343.5	88.7	52.1	52.5	40.6	23.8
87.5°	18.0	20.4	40.6	62.7	109.5	107.3	25.8	15.4	18.8	17.6	7.4
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°	551.9	551.9	551.9	551.9	551.9	551.9	551.9	551.9	551.9	551.9	551.9
2.5°	553.7	557.6	560.2	563.0	565.6	566.3	565.8	567.6	567.8	568.0	568.1
5°	556.9	562.2	567.2	569.9	571.2	570.2	566.8	565.0	563.4	562.2	562.6
7.5°	561.3	568.8	573.4	574.6	571.4	566.8	558.4	551.8	547.6	544.7	544.6
10°	568.1	575.4	579.2	575.8	567.0	555.8	542.5	530.1	520.7	517.9	517.7
12.5°	576.8	585.0	584.8	574.8	559.4	539.3	517.9	503.5	490.7	484.3	486.9
15°	588.0	594.2	588.4	570.4	546.0	518.5	492.0	472.5	458.1	451.2	451.6
17.5°	601.0	606.4	591.0	562.6	527.1	491.9	461.3	442.6	431.2	426.2	425.8
20°	617.2	618.9	591.0	549.0	502.9	460.8	431.6	418.6	412.2	409.6	410.4
22.5°	634.7	631.5	587.8	529.7	471.1	428.4	408.7	402.9	399.7	399.3	399.7
25°	654.3	645.3	581.2	503.7	437.8	400.3	388.9	389.9	390.6	390.6	392.0
27.5°	678.3	660.3	570.2	470.8	398.9	374.3	371.1	378.1	381.3	381.9	382.9
30°	709.9	676.7	551.9	429.8	365.9	350.9	356.5	365.9	369.5	371.7	371.3
32.5°	747.6	694.8	527.4	388.8	339.3	334.4	341.2	350.9	354.9	356.1	354.5
35°	791.8	715.2	494.9	350.3	316.0	318.8	326.8	329.9	333.5	333.5	334.3
37.5°	839.5	731.6	455.2	315.0	298.0	308.2	314.1	311.2	309.6	307.6	308.7
40°	888.0	743.8	403.7	280.2	280.0	297.2	298.8	290.8	284.4	282.3	281.4
42.5°	930.3	751.4	357.3	253.1	262.9	286.4	287.6	274.8	264.6	258.5	256.6
45°	980.2	760.2	311.8	230.8	247.1	277.8	280.8	263.6	248.5	235.9	232.7
47.5°	1048.4	780.3	276.0	213.3	235.8	272.4	276.6	254.3	234.5	218.1	215.5
50°	1125.6	807.7	248.1	201.5	226.9	267.6	272.8	244.9	221.5	203.3	201.3
52.5°	1196.3	822.5	224.1	190.9	218.3	258.8	267.8	238.1	208.7	188.5	186.7
55°	1234.9	798.5	200.4	180.5	206.5	247.3	260.7	228.7	196.3	180.6	178.1
57.5°	1240.1	748.9	179.1	169.2	194.0	233.3	247.7	217.3	188.2	175.2	173.0
60°	1199.9	674.7	162.4	160.0	181.4	217.5	233.1	207.3	180.0	169.2	167.0
62.5°	1099.7	594.2	150.8	151.6	168.7	200.8	222.3	197.7	172.3	162.6	160.6
65°	927.5	490.5	139.6	143.0	157.2	187.8	212.5	189.6	164.4	157.6	155.8
67.5°	644.3	354.1	130.4	134.0	146.4	174.6	201.1	181.0	155.6	152.0	149.2
70°	356.7	217.9	119.6	123.8	135.2	159.8	188.2	168.0	142.8	141.2	137.2
72.5°	187.5	138.8	107.3	112.0	120.0	140.8	168.7	153.8	130.2	123.4	118.2
74°	146.4	113.8	99.1	103.9	109.4	129.6	157.0	143.6	121.1	113.1	109.2
75°	127.6	101.3	92.2	98.3	103.1	122.0	148.0	136.4	116.2	108.5	104.9
77.5°	90.1	75.9	75.3	82.7	85.3	107.0	133.3	124.2	103.5	95.5	92.2
80°	63.3	56.8	59.7	64.3	67.9	94.5	123.8	107.3	84.9	75.5	74.3
82.5°	41.3	37.3	42.7	46.9	48.1	69.7	99.9	81.5	61.9	50.3	46.7
85°	19.0	18.6	24.4	23.8	23.6	34.1	59.3	47.7	35.6	26.6	25.1
87.5°	4.8	4.6	6.0	5.0	6.0	5.2	5.4	1.4	0.2	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)