

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: P458539

Luminaire Tested: **GALN-SA1A-735-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458539  
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-735-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 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: 4301 lumens  
Efficiency: N/A  
Efficacy: 130.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

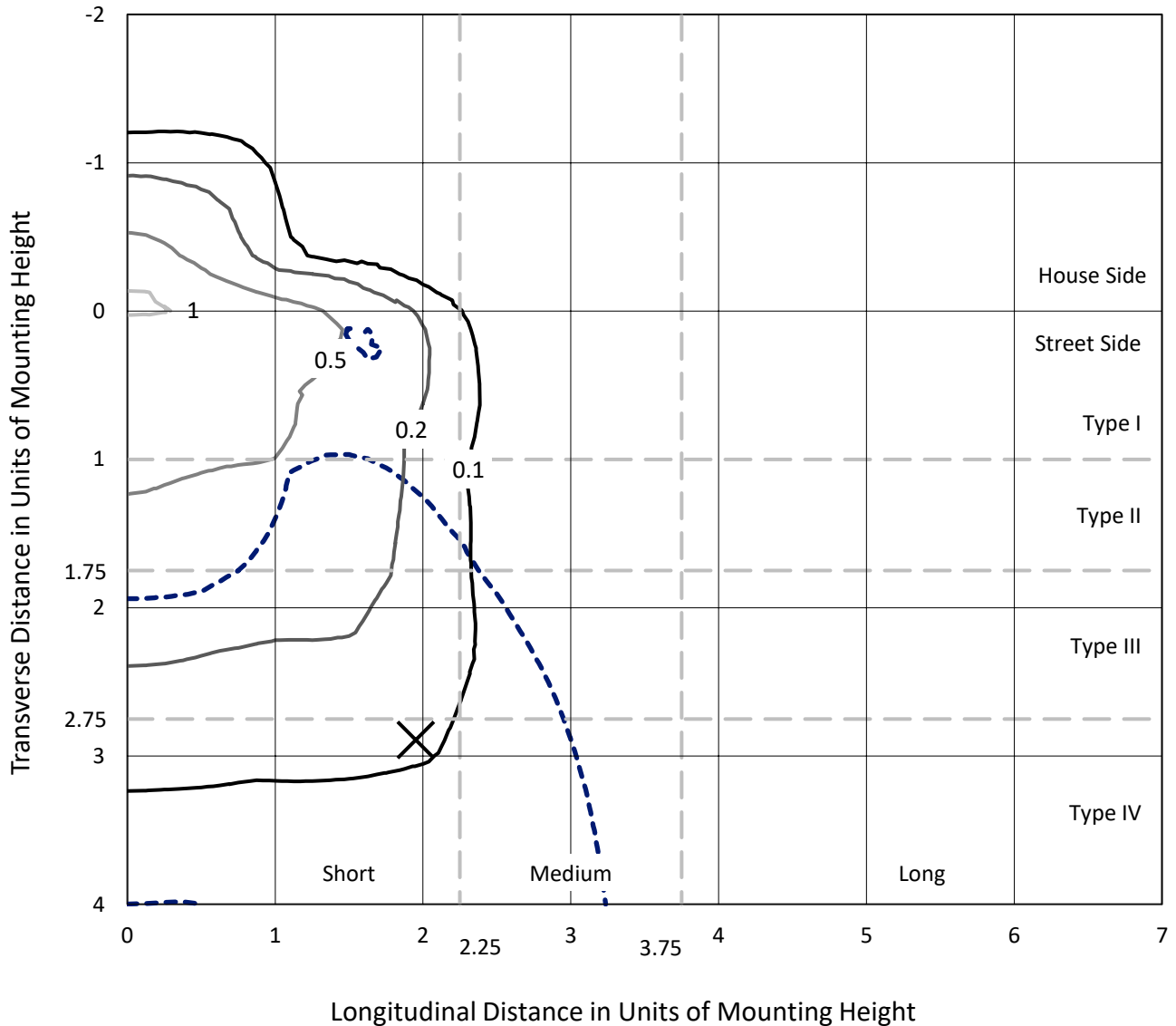
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P458539  
 CATALOG NUMBER: GALN-SA1A-735-U-T4FT

### Iso-Footcandle Lines of Horizontal Illumination

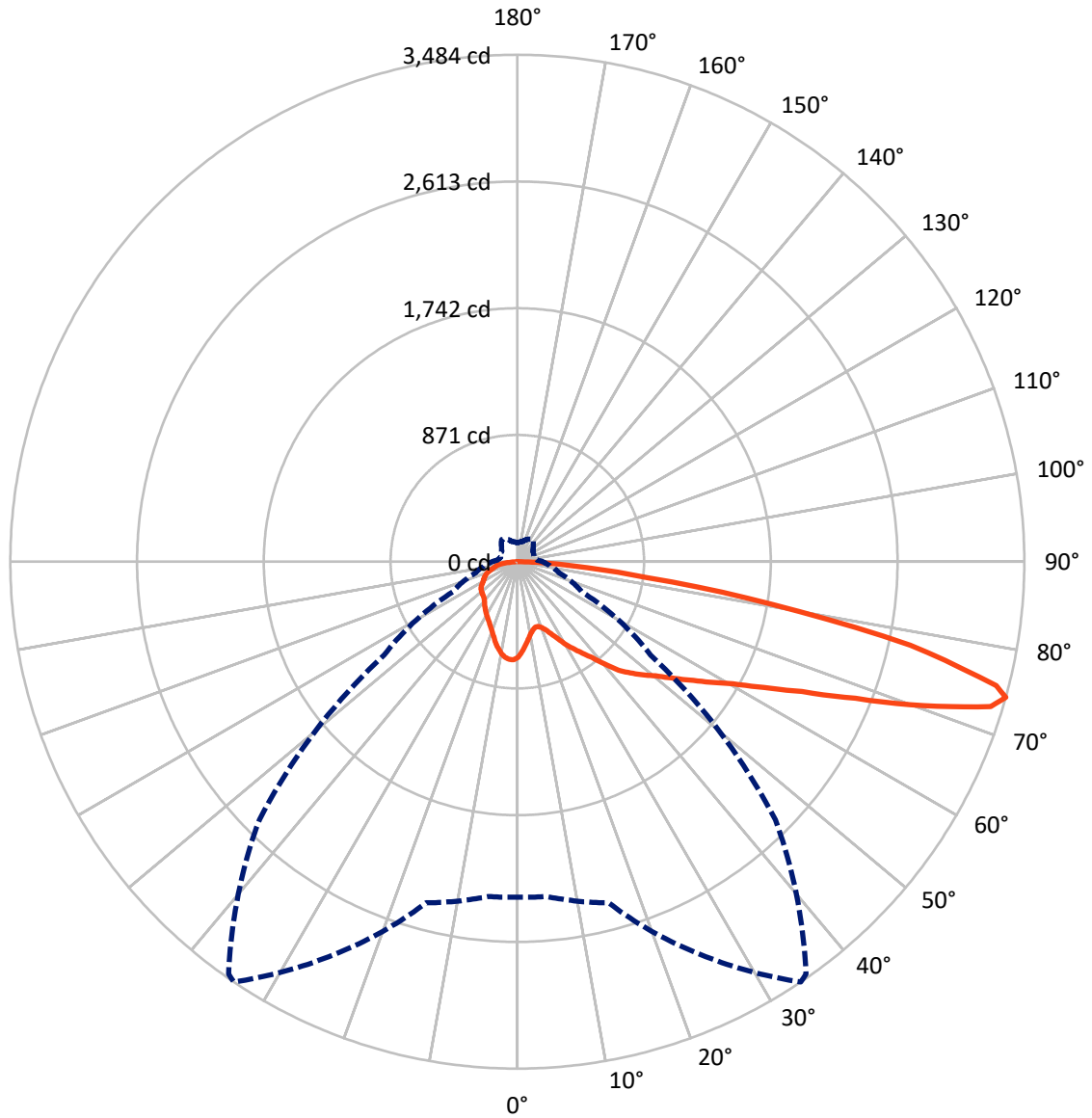
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P458539  
CATALOG NUMBER: GALN-SA1A-735-U-T4FT

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P458539

CATALOG NUMBER: GALN-SA1A-735-U-T4FT

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	915.3	0.0	915.3
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	3385.7	0.0	3385.7
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	4301.0	0.0	4301.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.7	1.4
10°-20°	163.5	3.8
20°-30°	269.5	6.3
30°-40°	403.8	9.4
40°-50°	586.9	13.6
50°-60°	819.8	19.1
60°-70°	1026.4	23.9
70°-80°	848.7	19.7
80°-90°	122.6	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°	4301.0	100.0
0°-180°	4301.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P458539

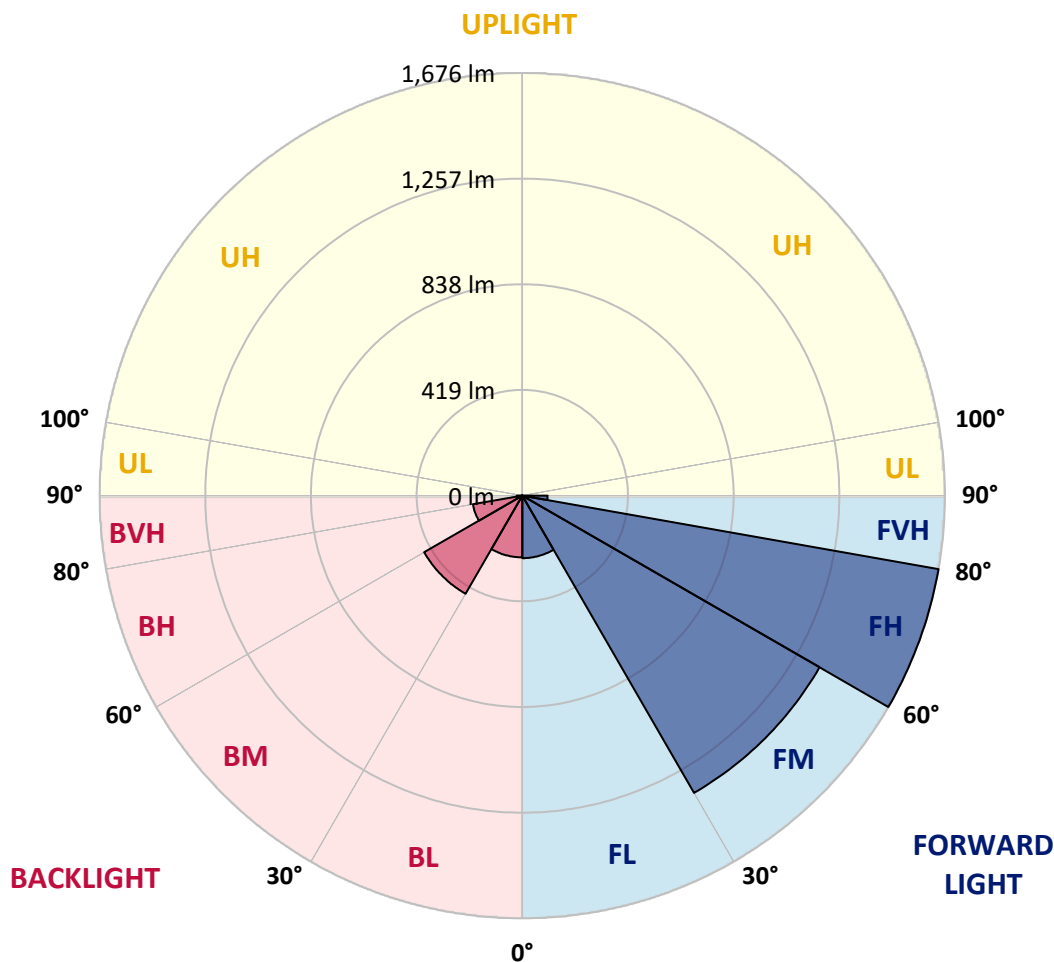
CATALOG NUMBER: GALN-SA1A-735-U-T4FT

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	247.9	5.8			
FM (30°-60°)	1361.0	31.6			
FH (60°-80°)	1676.3	39.0			G1/1800
FVH (80°-90°)	100.5	2.3			G2/225
BL (0°-30°)	244.8	5.7	B1/500		
BM (30°-60°)	449.5	10.5	B1/1000		
BH (60°-80°)	198.8	4.6	B1/500		G1/500
BVH (80°-90°)	22.2	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-G2**

Type IV Short





REPORT NUMBER: P458539  
 CATALOG NUMBER: GALN-SA1A-735-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7
2.5°	606.9	610.0	611.6	617.6	619.0	620.9	625.9	632.6	641.2	648.8	655.5
5°	556.4	561.1	564.0	569.2	579.5	580.4	593.8	609.0	626.4	642.6	656.0
7.5°	508.5	513.7	516.1	525.6	539.2	541.4	560.9	585.0	614.0	638.6	659.1
10°	472.5	475.1	480.4	487.5	503.7	505.1	530.6	562.8	600.4	636.7	664.3
12.5°	453.0	454.4	455.6	463.2	479.2	481.3	508.0	544.5	589.7	638.1	672.9
15°	455.8	456.3	451.0	452.5	465.3	468.4	494.9	532.3	583.1	641.7	685.7
17.5°	479.9	478.2	465.3	458.7	467.7	469.2	492.3	527.5	580.0	648.3	699.1
20°	517.8	515.4	493.2	478.5	483.7	484.9	500.8	531.1	583.1	659.3	719.8
22.5°	564.9	564.0	530.4	512.5	512.3	512.3	520.6	544.0	592.3	674.3	741.5
25°	630.9	625.9	582.1	559.0	552.6	552.1	551.1	565.2	604.3	690.3	767.2
27.5°	698.6	690.0	651.0	615.5	601.6	600.0	593.8	595.2	619.5	708.4	796.5
30°	759.4	753.9	717.2	677.9	661.4	657.6	640.5	632.6	645.0	741.0	843.2
32.5°	805.8	802.5	773.9	738.2	713.9	713.1	688.1	681.7	684.8	780.6	896.6
35°	843.5	844.7	830.1	799.2	771.3	767.2	750.6	742.5	733.4	837.8	963.8
37.5°	894.9	897.6	896.6	869.9	835.9	836.8	833.0	819.7	795.6	901.6	1038.4
40°	951.7	953.6	953.3	943.1	925.2	926.2	924.7	909.5	873.5	982.9	1121.3
42.5°	1030.0	1021.0	997.4	1007.7	1018.1	1022.7	1032.4	1017.9	968.6	1069.6	1199.2
45°	1117.7	1100.6	1047.2	1052.0	1090.8	1099.4	1153.2	1133.2	1071.7	1169.2	1291.0
47.5°	1173.0	1156.1	1111.1	1110.1	1161.6	1169.9	1265.2	1257.8	1165.6	1276.7	1402.9
50°	1222.3	1220.0	1169.2	1181.4	1231.6	1244.0	1387.2	1380.3	1259.3	1403.4	1524.9
52.5°	1295.5	1276.2	1235.7	1260.7	1327.2	1343.4	1508.3	1488.0	1345.3	1515.4	1643.4
55°	1328.4	1323.8	1321.5	1343.1	1434.4	1446.1	1626.0	1579.5	1418.7	1610.2	1733.4
57.5°	1416.3	1407.9	1431.5	1446.3	1560.7	1578.6	1748.9	1675.1	1483.0	1685.5	1777.3
60°	1530.2	1525.7	1547.3	1574.0	1701.7	1728.9	1889.0	1756.5	1534.7	1723.4	1753.2
62.5°	1700.3	1699.8	1695.8	1753.0	1901.6	1926.7	2049.9	1835.9	1542.8	1695.1	1628.8
65°	1944.3	1935.7	1900.5	1962.9	2150.4	2179.7	2217.4	1880.2	1494.0	1549.5	1371.5
67.5°	2199.5	2199.0	2170.4	2251.4	2507.6	2537.8	2426.8	1870.4	1358.4	1255.2	974.1
70°	2411.1	2400.8	2437.3	2653.2	2963.9	2998.9	2610.0	1755.3	1082.0	828.9	578.8
72.5°	2461.8	2462.3	2538.1	2962.9	3402.0	3407.5	2676.0	1422.7	724.1	457.2	289.5
74°	2305.5	2309.6	2427.0	2978.4	3483.8	3459.0	2507.3	1118.2	489.6	298.6	208.7
75°	2104.4	2078.9	2248.8	2875.2	3399.0	3372.3	2309.8	897.3	373.6	238.5	182.8
77.5°	1125.1	1151.1	1413.2	2145.6	2761.3	2730.6	1566.2	430.3	201.8	166.1	131.5
80°	400.5	441.8	620.9	1122.7	1770.4	1779.9	747.5	197.3	142.0	122.5	92.9
82.5°	163.5	168.0	266.6	498.2	899.0	907.6	305.2	117.2	101.5	84.3	55.5
85°	63.9	65.8	117.9	224.0	383.6	408.6	105.6	62.0	62.4	48.4	28.4
87.5°	21.4	24.3	48.4	74.6	130.3	127.7	30.7	18.3	22.4	21.0	8.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P458539  
 CATALOG NUMBER: GALN-SA1A-735-U-T4FT

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7	656.7
2.5°	658.8	663.3	666.4	669.8	672.9	673.8	673.1	675.3	675.5	675.7	676.0
5°	662.6	668.8	674.8	678.1	679.6	678.4	674.3	672.2	670.3	668.8	669.3
7.5°	667.9	676.7	682.2	683.6	679.8	674.3	664.3	656.4	651.4	648.1	647.9
10°	676.0	684.6	689.1	685.0	674.5	661.2	645.5	630.7	619.5	616.2	615.9
12.5°	686.2	696.0	695.8	683.8	665.5	641.7	616.2	599.0	583.8	576.1	579.2
15°	699.6	707.0	700.0	678.6	649.5	616.9	585.4	562.1	544.9	536.8	537.3
17.5°	715.1	721.5	703.1	669.3	627.1	585.2	548.7	526.6	513.0	507.0	506.6
20°	734.4	736.3	703.1	653.1	598.3	548.3	513.5	498.0	490.4	487.3	488.2
22.5°	755.1	751.3	699.3	630.2	560.4	509.7	486.3	479.4	475.6	475.1	475.6
25°	778.4	767.7	691.5	599.3	520.9	476.3	462.7	463.9	464.6	464.6	466.3
27.5°	807.0	785.6	678.4	560.2	474.6	445.3	441.5	449.9	453.7	454.4	455.6
30°	844.7	805.1	656.7	511.3	435.3	417.5	424.1	435.3	439.6	442.2	441.8
32.5°	889.5	826.6	627.4	462.5	403.6	397.9	406.0	417.5	422.2	423.6	421.7
35°	942.1	850.9	588.8	416.7	376.0	379.3	388.9	392.4	396.7	396.7	397.7
37.5°	998.8	870.4	541.6	374.8	354.5	366.7	373.6	370.3	368.4	366.0	367.2
40°	1056.5	884.9	480.4	333.3	333.1	353.6	355.5	346.0	338.3	336.0	334.8
42.5°	1106.8	894.0	425.1	301.2	312.9	340.7	342.2	326.9	314.8	307.6	305.2
45°	1166.1	904.5	371.0	274.5	294.0	330.5	334.1	313.6	295.7	280.7	276.9
47.5°	1247.4	928.3	328.3	253.8	280.4	324.0	329.1	302.6	279.0	259.5	256.4
50°	1339.1	961.0	295.2	239.7	270.0	318.3	324.5	291.4	263.5	241.8	239.5
52.5°	1423.2	978.6	266.6	227.1	259.7	307.8	318.6	283.3	248.3	224.2	222.1
55°	1469.2	950.0	238.5	214.7	245.7	294.3	310.2	272.1	233.5	214.9	211.8
57.5°	1475.4	890.9	213.0	201.3	230.9	277.6	294.7	258.5	224.0	208.5	205.9
60°	1427.5	802.7	193.2	190.4	215.9	258.8	277.3	246.6	214.2	201.3	198.7
62.5°	1308.4	707.0	179.4	180.4	200.6	239.0	264.5	235.2	204.9	193.5	191.1
65°	1103.4	583.5	166.1	170.1	187.0	223.5	252.8	225.6	195.6	187.5	185.4
67.5°	766.5	421.3	155.1	159.4	174.2	207.8	239.2	215.4	185.1	180.8	177.5
70°	424.4	259.2	142.2	147.3	160.8	190.1	224.0	199.9	169.9	168.0	163.2
72.5°	223.0	165.1	127.7	133.2	142.7	167.5	200.6	183.0	154.9	146.8	140.6
74°	174.2	135.3	117.9	123.7	130.1	154.2	186.8	170.8	144.2	134.6	129.9
75°	151.8	120.6	109.6	117.0	122.7	145.1	176.1	162.3	138.2	129.1	124.9
77.5°	107.2	90.3	89.6	98.4	101.5	127.2	158.7	147.7	123.2	113.7	109.6
80°	75.3	67.7	71.0	76.5	80.8	112.5	147.3	127.7	101.0	89.8	88.4
82.5°	49.1	44.3	50.8	55.8	57.2	82.9	118.9	97.0	73.6	59.8	55.5
85°	22.6	22.2	29.1	28.4	28.1	40.5	70.5	56.7	42.4	31.7	29.8
87.5°	5.7	5.5	7.1	6.0	7.1	6.2	6.4	1.7	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)