

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: P450303

Luminaire Tested: **GALN-SA1A-750-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450303  
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-750-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 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: 4617 lumens  
Efficiency: N/A  
Efficacy: 139.9 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

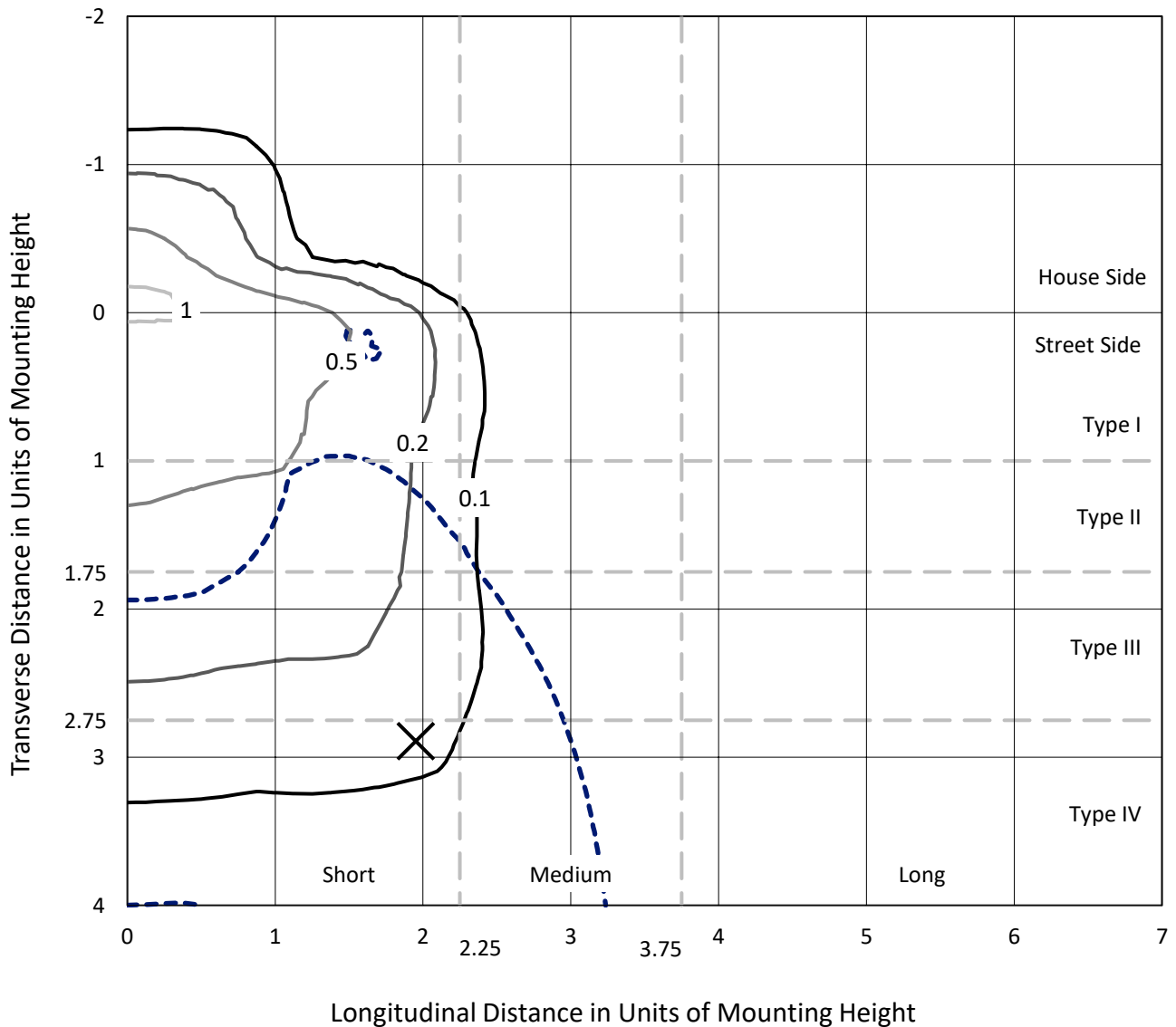
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

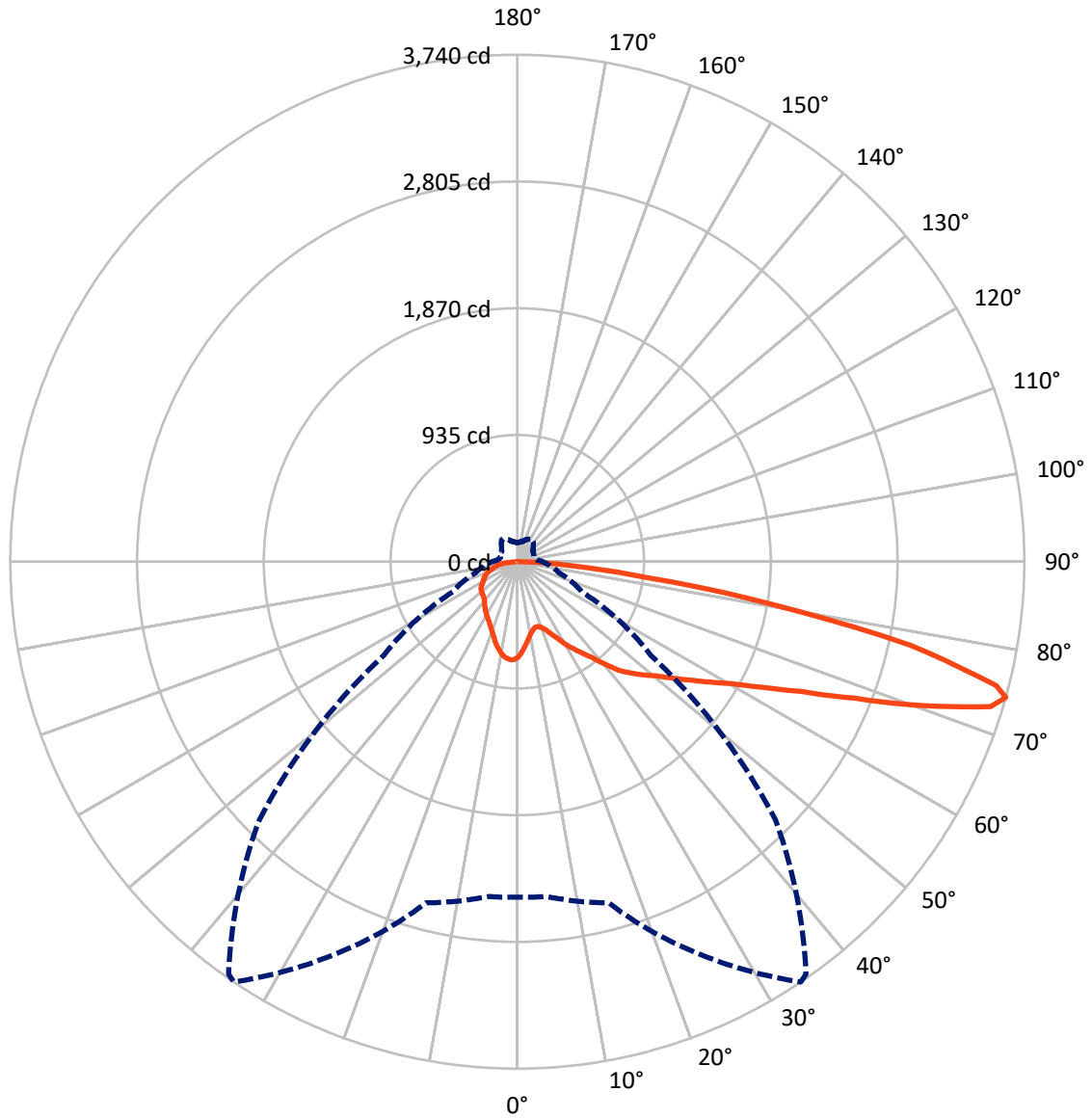
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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	982.5	0.0	982.5
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	3634.5	0.0	3634.5
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	4617.0	0.0	4617.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.1	1.4
10°-20°	175.5	3.8
20°-30°	289.3	6.3
30°-40°	433.4	9.4
40°-50°	630.1	13.6
50°-60°	880.0	19.1
60°-70°	1101.8	23.9
70°-80°	911.1	19.7
80°-90°	131.6	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°	4617.0	100.0
0°-180°	4617.0	100.0

**Coefficient of Utilization**



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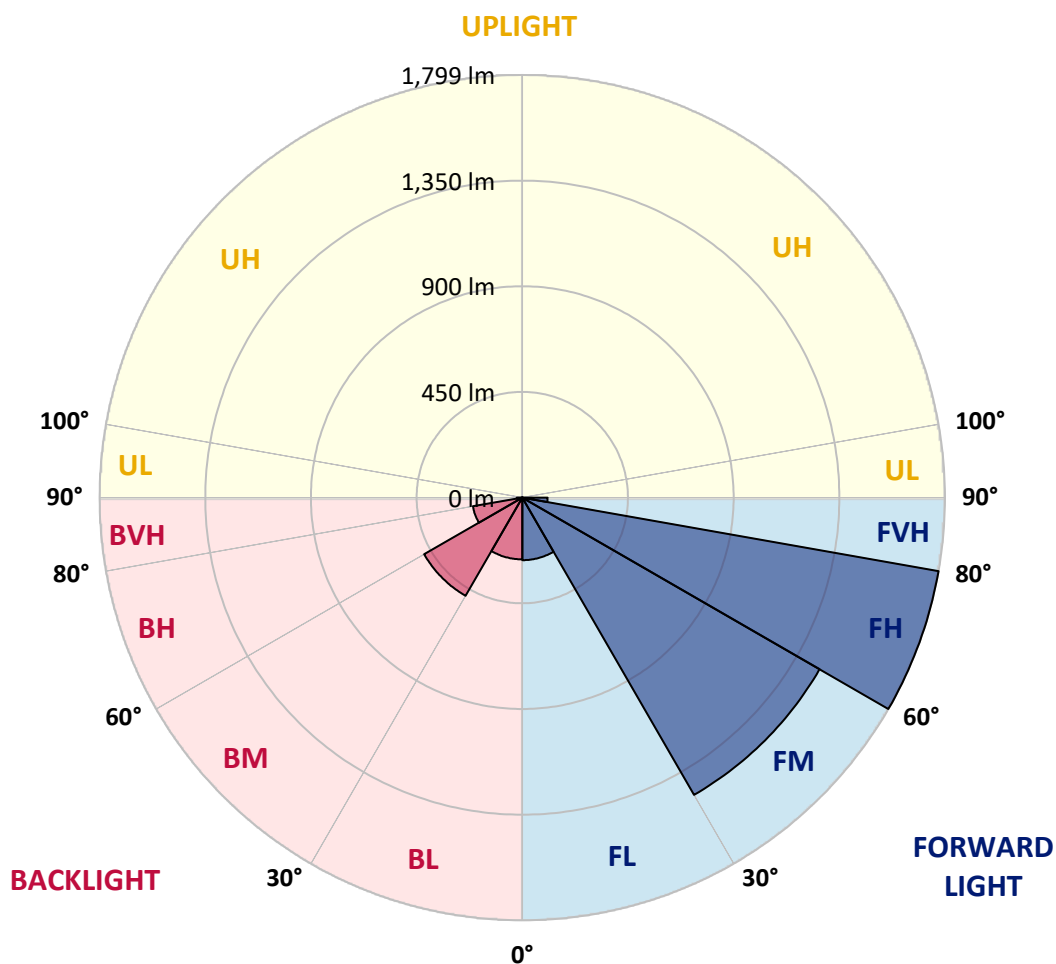
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	266.1	5.8			
FM (30°-60°)	1461.0	31.6			
FH (60°-80°)	1799.5	39.0			G1/1800
FVH (80°-90°)	107.8	2.3			G2/225
BL (0°-30°)	262.8	5.7	B1/500		
BM (30°-60°)	482.5	10.5	B1/1000		
BH (60°-80°)	213.4	4.6	B1/500		G1/500
BVH (80°-90°)	23.8	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	651.5	654.8	656.6	663.0	664.5	666.6	671.9	679.1	688.3	696.5	703.6
5°	597.2	602.4	605.4	611.1	622.1	623.1	637.4	653.8	672.4	689.8	704.2
7.5°	545.8	551.5	554.0	564.2	578.8	581.1	602.1	627.9	659.1	685.5	707.5
10°	507.2	510.0	515.6	523.3	540.7	542.2	569.6	604.1	644.6	683.4	713.1
12.5°	486.2	487.8	489.0	497.2	514.4	516.7	545.3	584.5	633.1	685.0	722.3
15°	489.3	489.8	484.2	485.7	499.5	502.9	531.3	571.4	625.9	688.8	736.1
17.5°	515.1	513.3	499.5	492.4	502.1	503.6	528.4	566.3	622.6	696.0	750.5
20°	555.8	553.2	529.5	513.6	519.2	520.5	537.6	570.1	625.9	707.7	772.7
22.5°	606.4	605.4	569.4	550.2	549.9	549.9	558.9	583.9	635.9	723.9	796.0
25°	677.3	671.9	624.9	600.1	593.1	592.6	591.6	606.7	648.7	741.0	823.6
27.5°	749.9	740.7	698.8	660.7	645.8	644.0	637.4	638.9	665.0	760.4	855.1
30°	815.2	809.3	769.9	727.7	710.0	705.9	687.5	679.1	692.4	795.5	905.2
32.5°	865.0	861.5	830.8	792.4	766.3	765.5	738.7	731.8	735.1	837.9	962.5
35°	905.5	906.7	891.1	857.9	828.0	823.6	805.7	797.0	787.3	899.3	1034.6
37.5°	960.7	963.5	962.5	933.8	897.3	898.3	894.2	879.9	854.0	967.9	1114.7
40°	1021.6	1023.6	1023.4	1012.4	993.2	994.2	992.7	976.3	937.7	1055.1	1203.7
42.5°	1105.7	1096.0	1070.7	1081.7	1092.9	1097.8	1108.3	1092.7	1039.7	1148.2	1287.3
45°	1199.9	1181.4	1124.1	1129.3	1171.0	1180.2	1238.0	1216.5	1150.5	1255.1	1385.8
47.5°	1259.2	1241.0	1192.7	1191.7	1246.9	1255.9	1358.2	1350.3	1251.3	1370.5	1506.0
50°	1312.1	1309.6	1255.1	1268.1	1322.1	1335.4	1489.1	1481.7	1351.8	1506.5	1637.0
52.5°	1390.7	1369.9	1326.5	1353.3	1424.7	1442.1	1619.1	1597.3	1444.1	1626.7	1764.1
55°	1426.0	1421.1	1418.5	1441.8	1539.8	1552.3	1745.4	1695.6	1522.9	1728.5	1860.8
57.5°	1520.3	1511.4	1536.7	1552.6	1675.3	1694.5	1877.4	1798.1	1592.0	1809.4	1907.8
60°	1642.6	1637.7	1661.0	1689.7	1826.8	1855.9	2027.8	1885.6	1647.5	1850.0	1882.0
62.5°	1825.2	1824.7	1820.4	1881.8	2041.4	2068.2	2200.5	1970.8	1656.2	1819.6	1748.5
65°	2087.1	2077.9	2040.1	2107.1	2308.4	2339.9	2380.3	2018.3	1603.7	1663.3	1472.3
67.5°	2361.1	2360.6	2329.9	2416.8	2691.8	2724.3	2605.1	2007.9	1458.2	1347.4	1045.6
70°	2588.2	2577.2	2616.4	2848.1	3181.6	3219.2	2801.8	1884.3	1161.5	889.9	621.3
72.5°	2642.7	2643.2	2724.5	3180.6	3652.0	3657.9	2872.6	1527.3	777.3	490.8	310.8
74°	2474.9	2479.3	2605.4	3197.2	3739.7	3713.1	2691.6	1200.4	525.6	320.5	224.1
75°	2259.0	2231.7	2414.0	3086.5	3648.7	3620.0	2479.5	963.3	401.1	256.0	196.2
77.5°	1207.8	1235.7	1517.0	2303.3	2964.2	2931.2	1681.2	461.9	216.6	178.3	141.2
80°	430.0	474.2	666.6	1205.2	1900.4	1910.7	802.4	211.8	152.4	131.5	99.8
82.5°	175.5	180.3	286.2	534.8	965.1	974.3	327.7	125.8	109.0	90.5	59.6
85°	68.5	70.6	126.6	240.4	411.8	438.7	113.3	66.5	67.0	51.9	30.4
87.5°	23.0	26.1	51.9	80.1	139.9	137.1	33.0	19.7	24.0	22.5	9.5
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°	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9	704.9
2.5°	707.2	712.1	715.4	719.0	722.3	723.3	722.6	724.9	725.1	725.4	725.6
5°	711.3	718.0	724.4	727.9	729.5	728.2	723.9	721.6	719.5	718.0	718.5
7.5°	716.9	726.4	732.3	733.8	729.7	723.9	713.1	704.7	699.3	695.7	695.5
10°	725.6	734.9	739.7	735.4	724.1	709.8	692.9	677.0	665.0	661.4	661.2
12.5°	736.6	747.1	746.9	734.1	714.4	688.8	661.4	643.0	626.7	618.5	621.8
15°	751.0	758.9	751.5	728.5	697.3	662.2	628.4	603.4	585.0	576.3	576.8
17.5°	767.6	774.5	754.8	718.5	673.2	628.2	589.1	565.3	550.7	544.3	543.8
20°	788.3	790.4	754.8	701.1	642.3	588.5	551.2	534.6	526.4	523.1	524.1
22.5°	810.6	806.5	750.7	676.5	601.6	547.1	522.0	514.6	510.5	510.0	510.5
25°	835.6	824.1	742.3	643.3	559.1	511.3	496.7	498.0	498.8	498.8	500.6
27.5°	866.3	843.3	728.2	601.3	509.5	478.0	474.0	482.9	487.0	487.8	489.0
30°	906.7	864.3	704.9	548.9	467.3	448.1	455.3	467.3	471.9	474.7	474.2
32.5°	954.8	887.3	673.5	496.5	433.3	427.1	435.8	448.1	453.2	454.8	452.7
35°	1011.3	913.4	632.0	447.4	403.6	407.2	417.4	421.3	425.9	425.9	426.9
37.5°	1072.2	934.4	581.4	402.3	380.6	393.6	401.1	397.5	395.4	392.9	394.2
40°	1134.1	950.0	515.6	357.8	357.6	379.6	381.6	371.4	363.2	360.6	359.4
42.5°	1188.1	959.7	456.3	323.3	335.8	365.8	367.3	350.9	337.9	330.2	327.7
45°	1251.8	970.9	398.2	294.7	315.6	354.8	358.6	336.6	317.4	301.3	297.2
47.5°	1339.0	996.5	352.5	272.4	301.1	347.9	353.2	324.8	299.5	278.5	275.2
50°	1437.5	1031.6	316.9	257.3	289.8	341.7	348.4	312.8	282.9	259.6	257.1
52.5°	1527.8	1050.5	286.2	243.8	278.8	330.5	342.0	304.1	266.5	240.7	238.4
55°	1577.1	1019.8	256.0	230.5	263.7	315.9	333.0	292.1	250.7	230.7	227.4
57.5°	1583.8	956.4	228.7	216.1	247.8	298.0	316.4	277.5	240.4	223.8	221.0
60°	1532.4	861.7	207.4	204.4	231.7	277.8	297.7	264.7	229.9	216.1	213.3
62.5°	1404.5	758.9	192.6	193.6	215.4	256.5	283.9	252.5	220.0	207.7	205.1
65°	1184.5	626.4	178.3	182.6	200.8	239.9	271.4	242.2	210.0	201.3	199.0
67.5°	822.8	452.2	166.5	171.1	187.0	223.0	256.8	231.2	198.7	194.1	190.6
70°	455.5	278.3	152.7	158.1	172.7	204.1	240.4	214.6	182.4	180.3	175.2
72.5°	239.4	177.3	137.1	143.0	153.2	179.8	215.4	196.4	166.3	157.6	150.9
74°	187.0	145.3	126.6	132.7	139.7	165.5	200.5	183.4	154.7	144.5	139.4
75°	162.9	129.4	117.7	125.6	131.7	155.8	189.0	174.2	148.4	138.6	134.0
77.5°	115.1	96.9	96.2	105.6	109.0	136.6	170.3	158.6	132.2	122.0	117.7
80°	80.8	72.6	76.2	82.1	86.7	120.7	158.1	137.1	108.4	96.4	94.9
82.5°	52.7	47.6	54.5	59.9	61.4	89.0	127.6	104.1	79.0	64.2	59.6
85°	24.3	23.8	31.2	30.4	30.2	43.5	75.7	60.9	45.5	34.0	32.0
87.5°	6.1	5.9	7.7	6.4	7.7	6.7	6.9	1.8	0.3	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)