

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: P458537

Luminaire Tested: **GALN-SA1A-735-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458537  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
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-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4411 lumens  
Efficiency: N/A  
Efficacy: 133.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G1

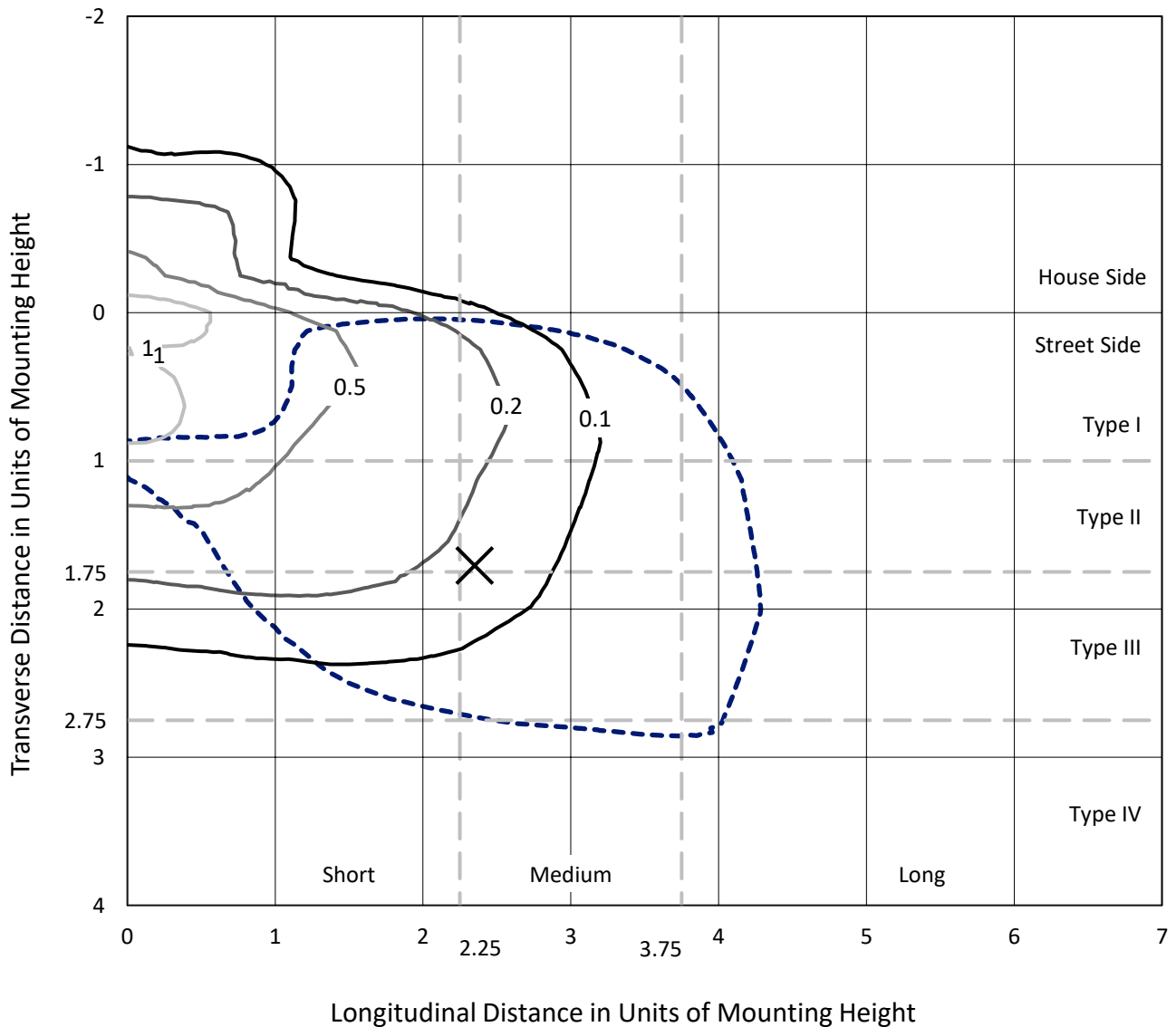
Input Watts (W): 33  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P458537  
 CATALOG NUMBER: GALN-SA1A-735-U-T3R

### Iso-Footcandle Lines of Horizontal Illumination

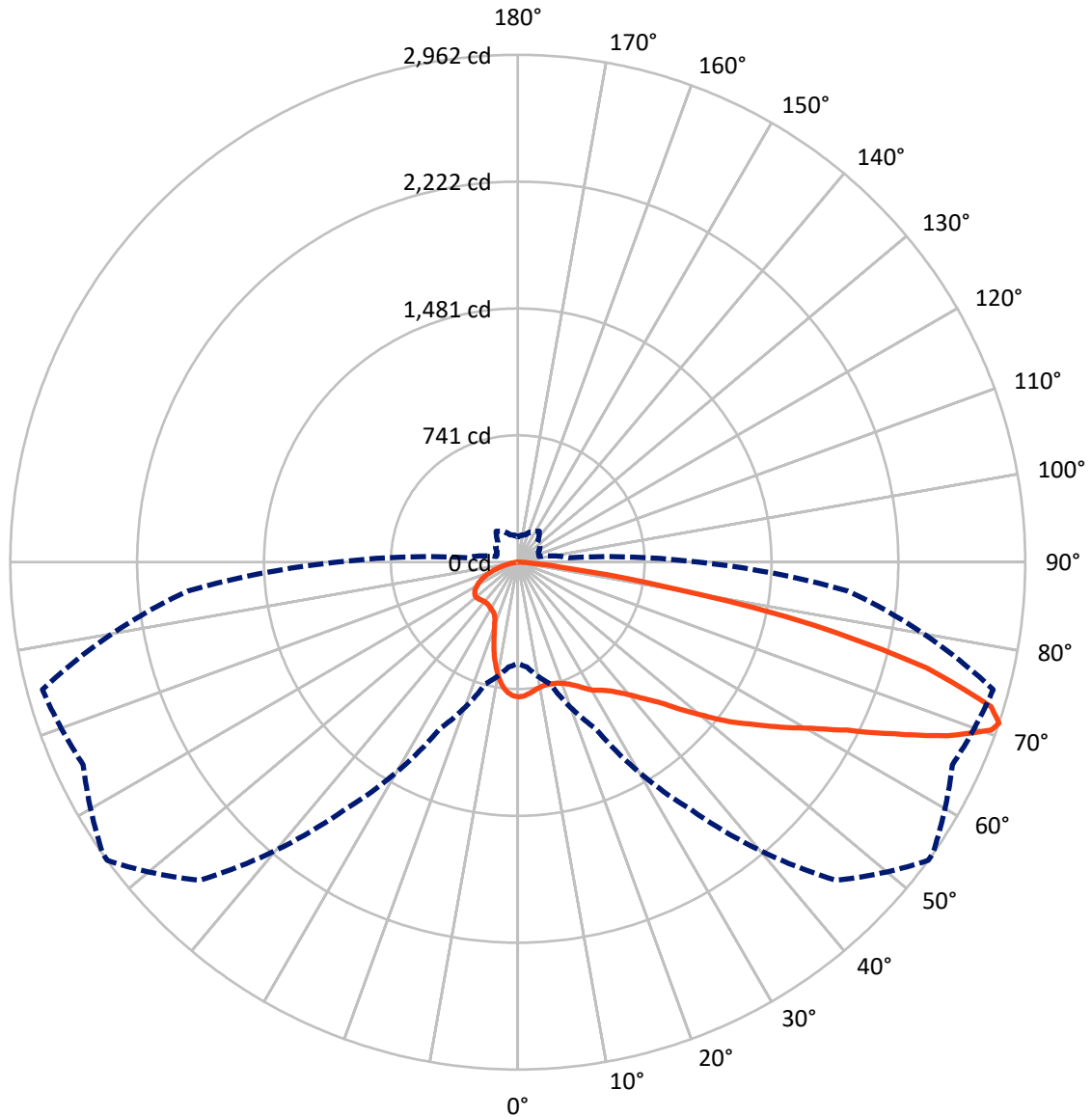
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P458537  
CATALOG NUMBER: GALN-SA1A-735-U-T3R

### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	796.4	0.0	796.4
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	3614.6	0.0	3614.6
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	4411.0	0.0	4411.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.1	1.6
10°-20°	185.2	4.2
20°-30°	308.3	7.0
30°-40°	455.9	10.3
40°-50°	642.2	14.6
50°-60°	859.9	19.5
60°-70°	1083.9	24.6
70°-80°	740.3	16.8
80°-90°	65.1	1.5
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°	4411.0	100.0
0°-180°	4411.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P458537

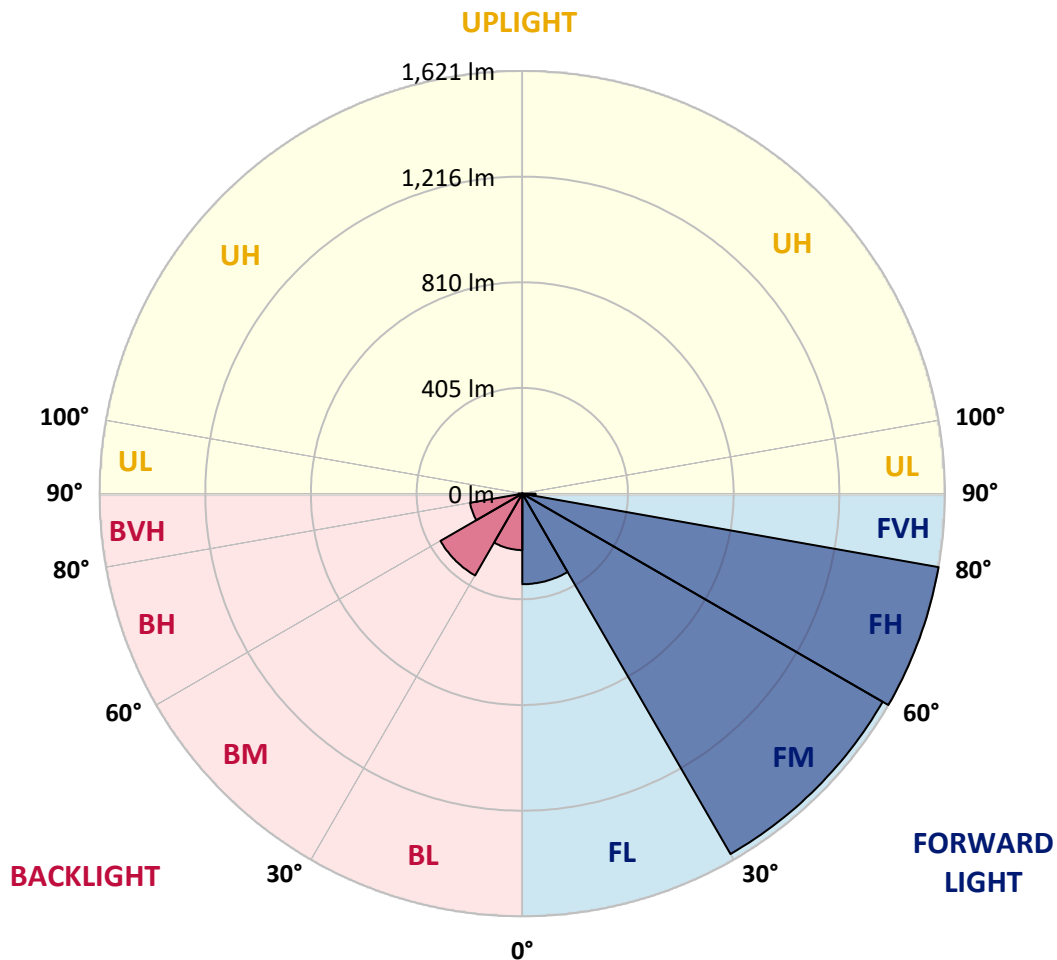
CATALOG NUMBER: GALN-SA1A-735-U-T3R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	347.2	7.9			
FM (30°-60°)	1595.7	36.2			
FH (60°-80°)	1620.8	36.7			G1/1800
FVH (80°-90°)	50.9	1.2			G1/100
BL (0°-30°)	216.4	4.9	B1/500		
BM (30°-60°)	362.3	8.2	B1/1000		
BH (60°-80°)	203.4	4.6	B1/500		G1/500
BVH (80°-90°)	14.2	0.3			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 Medium





REPORT NUMBER: P458537

CATALOG NUMBER: GALN-SA1A-735-U-T3R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	787.0	787.0	787.0	787.0	787.0	787.0	787.0	787.0	787.0	787.0	787.0
2.5°	760.3	763.9	764.8	767.2	772.2	776.3	780.3	779.8	785.6	787.9	790.1
5°	726.5	727.4	731.0	735.8	744.6	755.8	766.7	767.0	781.0	792.2	797.7
7.5°	701.7	704.8	707.2	712.2	721.5	733.6	751.0	752.4	777.5	799.6	811.3
10°	685.5	689.1	691.7	697.9	707.2	720.8	739.6	742.2	774.8	811.3	831.8
12.5°	670.7	674.3	676.7	684.8	696.9	713.6	734.8	737.9	775.8	824.9	854.2
15°	679.8	682.6	681.7	684.1	692.2	711.2	736.7	739.8	779.4	838.0	876.3
17.5°	720.0	722.4	714.6	705.5	701.7	715.7	742.7	746.0	786.5	851.6	899.0
20°	779.4	785.8	768.6	748.4	730.0	731.9	755.1	758.6	796.5	865.1	922.1
22.5°	856.6	861.3	840.4	807.0	773.2	755.8	773.6	775.8	811.5	882.8	947.3
25°	947.3	950.2	921.1	878.2	829.4	796.5	799.1	803.0	836.3	902.8	969.7
27.5°	1035.5	1044.6	1011.0	958.5	894.2	839.4	834.2	836.5	863.2	914.0	985.2
30°	1140.1	1139.4	1103.9	1043.1	960.7	886.1	867.3	866.8	877.8	919.5	996.4
32.5°	1223.5	1233.3	1198.5	1132.2	1036.7	934.5	890.2	889.2	889.0	929.0	1013.1
35°	1318.3	1319.7	1287.8	1221.1	1118.9	995.2	922.1	917.3	911.8	949.5	1035.7
37.5°	1403.1	1409.8	1380.5	1305.7	1199.7	1058.4	965.9	962.8	946.1	985.0	1072.0
40°	1469.4	1474.4	1456.7	1385.5	1279.2	1126.5	1021.7	1016.0	995.7	1043.1	1120.3
42.5°	1491.1	1501.3	1508.2	1473.2	1370.7	1207.3	1090.3	1083.2	1067.7	1131.3	1176.1
45°	1492.7	1508.9	1545.4	1547.1	1462.7	1304.0	1170.4	1165.4	1164.2	1244.2	1254.5
47.5°	1480.1	1496.5	1557.8	1590.9	1544.7	1401.7	1285.9	1278.1	1278.8	1383.8	1342.4
50°	1449.6	1469.1	1543.5	1619.0	1608.8	1503.2	1407.9	1405.3	1420.1	1543.2	1433.6
52.5°	1392.2	1415.8	1528.7	1636.6	1656.4	1590.7	1546.6	1539.2	1576.6	1716.2	1533.5
55°	1233.3	1268.8	1474.6	1646.4	1701.7	1674.3	1671.4	1684.8	1734.3	1904.9	1643.3
57.5°	1150.3	1177.0	1357.2	1648.1	1758.9	1771.5	1817.2	1820.6	1907.3	2105.3	1767.4
60°	1105.1	1128.7	1292.8	1637.1	1838.7	1891.8	1966.4	1978.3	2076.2	2322.4	1896.1
62.5°	1065.5	1085.8	1254.2	1599.2	1928.8	2070.3	2159.6	2165.3	2268.0	2562.1	2023.1
65°	972.4	995.5	1176.6	1561.3	2006.4	2293.3	2416.0	2409.3	2472.2	2768.9	2102.7
67.5°	846.8	876.1	1031.4	1430.5	2044.8	2537.0	2704.8	2696.4	2673.8	2904.4	2125.6
70°	686.4	702.2	845.8	1204.4	1891.6	2665.0	2932.8	2924.0	2798.7	2922.3	2017.4
71°	590.7	615.2	736.5	1069.8	1764.1	2625.9	2962.1	2959.7	2798.9	2873.0	1935.9
72.5°	461.0	476.1	583.3	828.9	1499.4	2403.9	2889.7	2898.7	2738.1	2736.0	1767.9
75°	291.6	298.3	366.0	488.0	822.7	1702.4	2466.8	2491.3	2431.3	2239.4	1314.7
77.5°	169.4	178.0	219.2	287.6	355.5	924.0	1765.1	1791.7	1689.3	1233.0	538.2
80°	98.6	108.2	144.4	167.0	163.2	342.9	898.7	944.2	731.5	311.4	151.1
82.5°	54.8	61.2	101.5	101.7	87.0	112.0	282.8	295.9	208.7	125.6	61.7
85°	39.8	45.0	65.5	59.3	41.7	48.1	98.4	103.2	84.3	52.9	20.0
87.5°	14.1	20.0	36.0	28.6	11.4	10.0	28.4	23.1	21.4	14.8	4.5
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: P458537  
 CATALOG NUMBER: GALN-SA1A-735-U-T3R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	787.0	787.0	787.0	787.0	787.0	787.0	787.0	787.0	787.0	787.0	787.0
2.5°	791.3	791.8	789.4	785.1	780.8	775.3	769.1	764.4	762.2	762.0	761.7
5°	799.9	801.0	792.0	778.6	763.9	745.8	730.3	712.6	708.1	701.0	703.1
7.5°	813.7	813.0	795.1	766.7	732.2	693.8	661.4	642.6	623.1	617.6	617.8
10°	833.4	828.9	795.1	742.4	684.8	627.8	582.6	554.0	538.5	525.6	520.8
12.5°	854.4	843.0	787.5	708.4	623.8	554.0	505.4	466.8	456.8	446.3	446.5
15°	874.4	855.4	772.5	660.5	558.0	475.1	427.9	404.8	401.7	402.9	402.7
17.5°	892.5	864.2	749.6	607.1	481.3	407.4	382.4	384.1	392.4	398.4	399.1
20°	910.9	869.4	715.5	535.6	408.9	366.5	367.4	380.5	393.1	401.2	402.4
22.5°	928.3	871.8	675.5	466.5	356.4	349.1	363.1	377.2	389.6	397.4	398.6
25°	939.7	866.3	618.8	394.3	330.7	342.9	357.6	369.5	380.0	388.1	390.0
27.5°	942.8	848.7	548.5	336.0	318.8	336.9	350.5	359.3	367.4	375.0	376.5
30°	941.1	822.7	471.3	301.6	311.9	330.0	340.5	346.9	356.7	362.6	363.8
32.5°	938.5	792.5	390.8	283.3	306.2	323.6	329.8	335.5	335.2	332.9	334.5
35°	939.5	756.3	325.5	272.3	301.2	318.8	324.0	316.9	296.4	295.4	294.5
37.5°	944.5	720.5	278.1	264.7	298.5	318.1	320.9	288.1	270.0	261.6	259.5
40°	957.3	678.8	246.8	259.0	298.3	323.6	306.9	273.5	238.7	222.5	221.3
42.5°	974.5	637.8	227.8	255.4	301.2	331.9	301.2	253.0	215.2	205.6	204.2
45°	1000.0	590.9	217.3	253.8	305.5	335.0	299.3	238.0	205.6	198.0	198.0
47.5°	1028.8	546.1	211.6	252.6	310.9	332.9	282.3	233.3	201.1	202.0	206.6
50°	1057.4	507.3	207.3	249.9	315.7	331.7	275.4	233.0	202.3	214.4	222.5
52.5°	1090.5	479.9	202.0	245.7	315.7	324.0	273.3	237.8	205.6	209.2	212.8
55°	1130.6	471.3	195.4	236.4	310.0	305.0	272.1	244.7	208.0	199.7	201.1
57.5°	1183.5	485.1	188.9	224.7	296.9	285.2	271.6	246.6	202.5	195.6	194.2
60°	1244.9	512.5	187.0	212.8	279.0	268.3	268.8	241.1	194.9	187.8	188.9
62.5°	1288.1	528.9	185.8	203.7	259.5	249.7	261.9	234.5	191.6	185.4	186.6
65°	1288.1	508.9	174.9	189.9	234.2	227.3	253.5	226.1	187.3	180.1	178.9
67.5°	1239.2	450.6	158.2	169.2	206.3	201.8	241.8	216.1	180.8	175.4	172.5
70°	1112.0	341.7	137.2	144.9	171.1	175.1	226.8	202.5	170.1	163.4	159.2
71°	1056.0	297.6	128.4	132.5	157.5	163.4	219.7	196.8	165.4	155.8	148.2
72.5°	948.1	250.7	115.1	116.7	134.6	145.3	204.7	185.8	156.3	142.7	134.1
75°	720.3	183.0	92.7	91.7	99.6	115.3	173.2	165.6	137.0	118.7	113.7
77.5°	311.2	99.6	69.3	70.0	67.7	87.4	136.3	142.2	117.5	96.5	92.0
80°	94.4	57.4	47.4	48.4	45.3	58.6	96.0	111.5	94.4	75.1	68.9
82.5°	48.4	34.3	32.4	31.9	28.8	33.1	58.1	76.2	67.4	46.9	41.5
85°	21.0	18.3	16.0	15.5	13.6	11.9	20.7	38.1	35.7	26.2	25.0
87.5°	5.2	4.8	3.1	2.9	1.7	0.2	0.0	0.0	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)