

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: P456937

Luminaire Tested: **GALN-SA8B-727-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456937  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8B-727-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30766 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

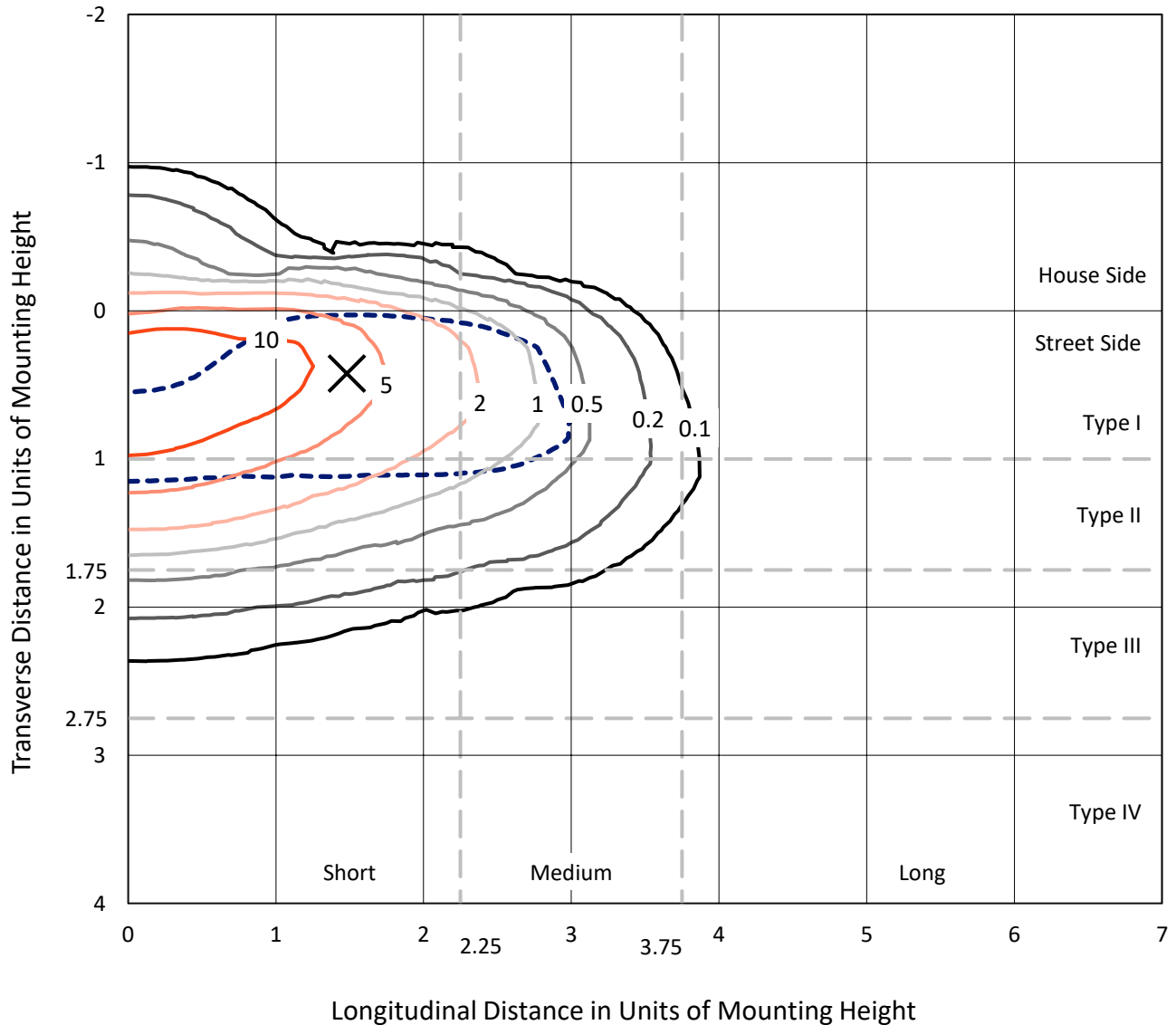
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P456937  
 CATALOG NUMBER: GALN-SA8B-727-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

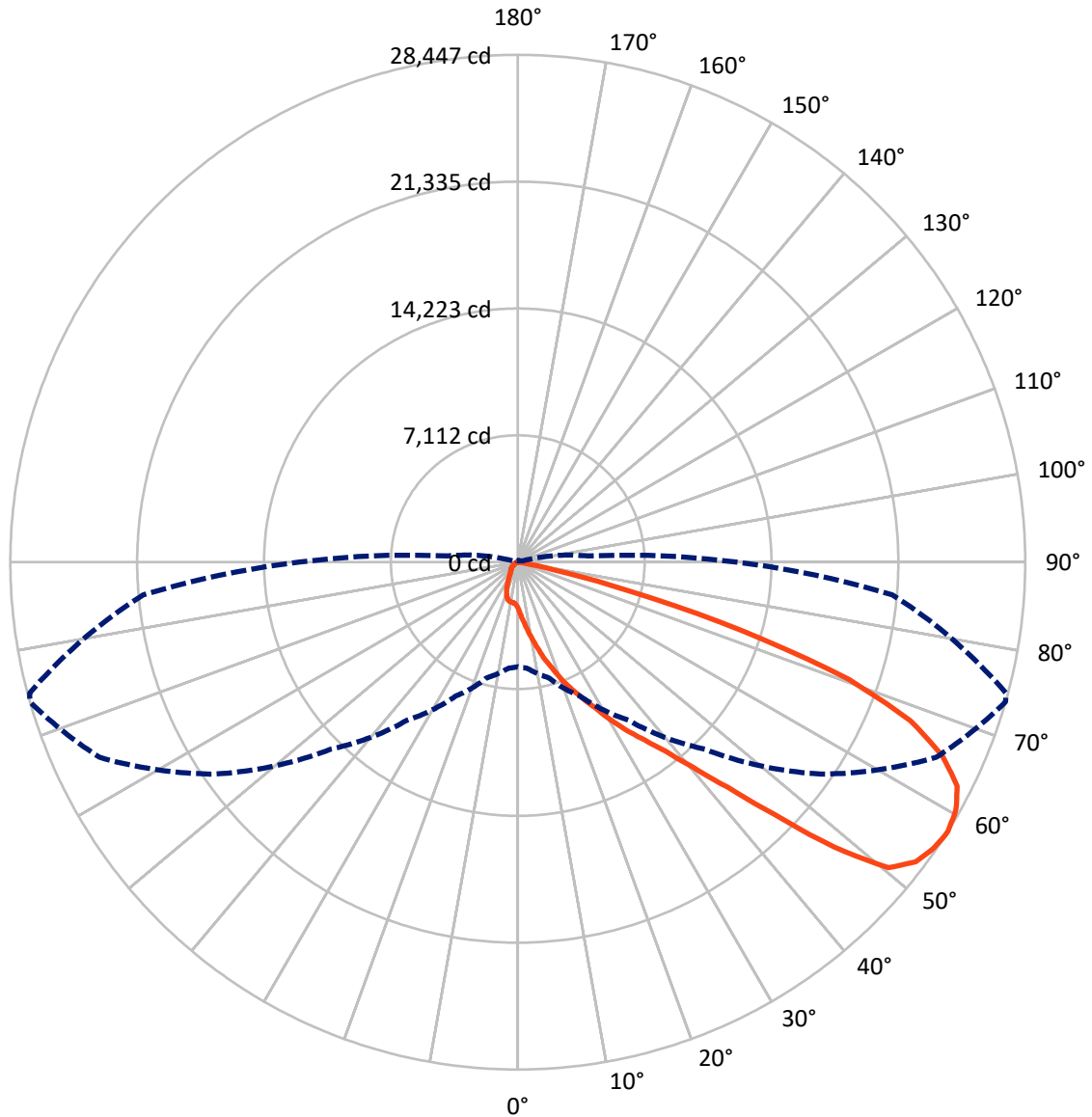
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P456937  
CATALOG NUMBER: GALN-SA8B-727-U-T2R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P456937

CATALOG NUMBER: GALN-SA8B-727-U-T2R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1774.5	0.0	1774.5
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	28991.5	0.0	28991.5
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	30766.0	0.0	30766.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	311.0	1.0
10°-20°	1225.8	4.0
20°-30°	2623.0	8.5
30°-40°	4821.1	15.7
40°-50°	7390.8	24.0
50°-60°	7818.5	25.4
60°-70°	5105.7	16.6
70°-80°	1395.0	4.5
80°-90°	75.1	0.2
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°	30766.0	100.0
0°-180°	30766.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P456937

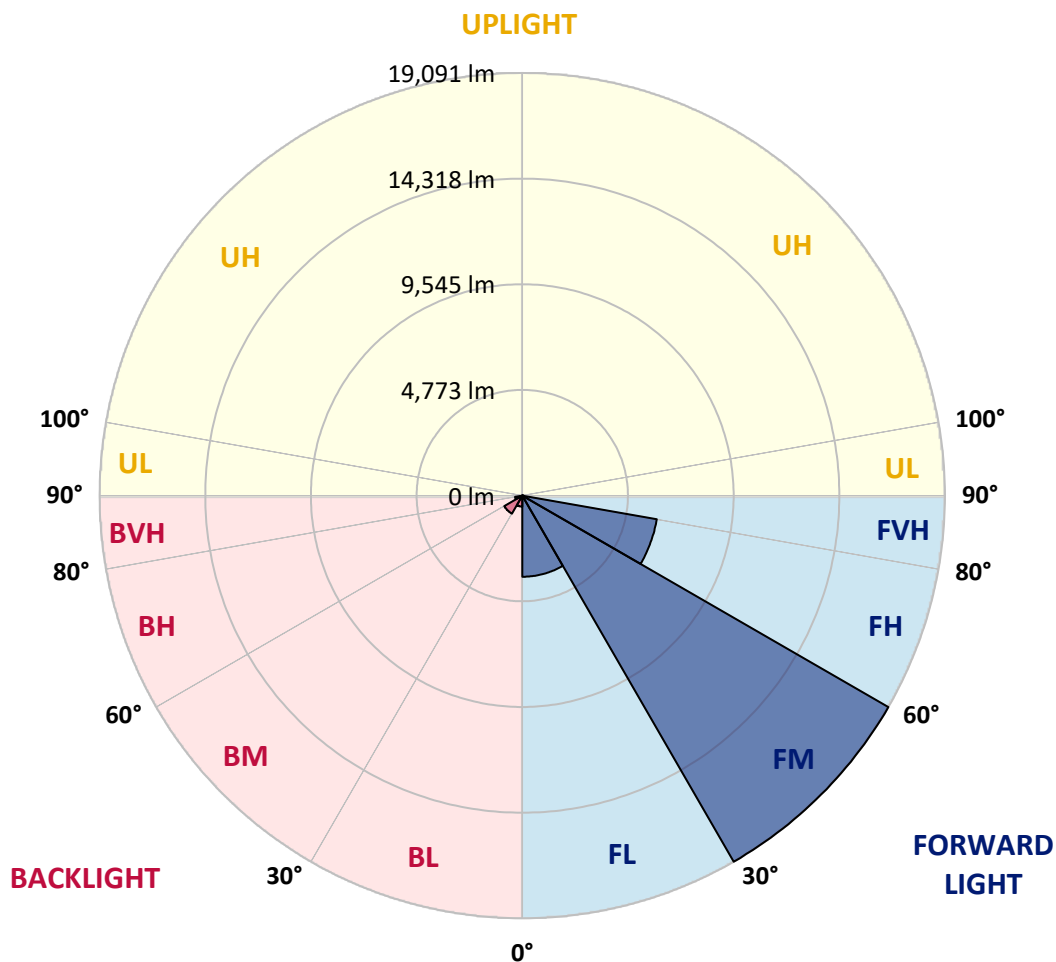
CATALOG NUMBER: GALN-SA8B-727-U-T2R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3664.2	11.9			
FM (30°-60°)	19090.9	62.1			
FH (60°-80°)	6167.6	20.0			G3/7500
FVH (80°-90°)	68.9	0.2			G1/100
BL (0°-30°)	495.7	1.6	B1/500		
BM (30°-60°)	939.5	3.1	B1/1000		
BH (60°-80°)	333.1	1.1	B1/500		G1/500
BVH (80°-90°)	6.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type II Short





REPORT NUMBER: P456937

CATALOG NUMBER: GALN-SA8B-727-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2576.6	2576.6	2576.6	2576.6	2576.6	2576.6	2576.6	2576.6	2576.6	2576.6	2576.6
2.5°	3770.4	3736.4	3668.4	3645.1	3545.2	3390.2	3254.2	3071.5	2927.1	2912.2	2738.0
5°	5049.1	4972.7	4940.8	4787.9	4547.8	4322.7	3936.1	3642.9	3305.2	3279.7	2929.2
7.5°	6281.2	6174.9	6143.1	5998.6	5718.3	5363.5	4862.2	4329.0	3793.8	3744.9	3186.2
10°	7173.3	7188.2	7130.8	7035.2	6807.9	6446.8	5828.7	5100.1	4337.5	4275.9	3475.1
12.5°	7812.7	7810.6	7821.2	7819.1	7698.0	7424.0	6774.0	5934.9	4936.6	4815.5	3806.5
15°	8229.0	8235.4	8267.3	8377.7	8390.5	8220.5	7678.9	6733.6	5631.2	5480.3	4165.5
17.5°	8649.6	8694.2	8745.2	8849.3	8942.7	8874.8	8492.4	7566.3	6259.9	6147.3	4550.0
20°	9344.2	9405.8	9376.1	9439.8	9488.6	9495.0	9199.8	8335.2	7022.5	6833.4	4989.7
22.5°	10455.1	10453.0	10376.5	10261.8	10166.3	10162.0	9894.4	9125.4	7715.0	7532.3	5431.5
25°	11859.2	11865.6	11716.9	11389.8	11151.9	10860.9	10552.9	9817.9	8456.3	8231.1	5896.7
27.5°	13469.3	13429.0	13203.8	12753.5	12281.9	11784.9	11340.9	10623.0	9242.2	9055.3	6429.8
30°	14915.9	14901.0	14637.6	14087.5	13467.2	12968.0	12324.4	11631.9	10259.7	10030.3	7026.7
32.5°	16262.6	16283.9	15918.5	15349.2	14750.2	14174.6	13494.8	12596.3	11258.1	10933.1	7676.7
35°	17314.1	17335.3	16957.2	16483.5	15867.5	15389.6	14741.7	13624.4	12243.7	11969.7	8424.4
37.5°	17874.9	17902.5	17683.7	17326.8	16942.3	16702.3	16099.0	14947.8	13441.7	13276.0	9308.1
40°	17981.1	18012.9	17917.3	17821.7	17800.5	17972.6	17796.3	16506.9	15102.8	14843.7	10625.1
42.5°	17662.4	17704.9	17747.4	17959.8	18393.1	19024.0	19637.9	18622.6	17241.8	16893.5	12235.2
45°	16825.5	16821.3	16989.1	17539.2	18510.0	19856.7	21562.4	21271.4	20156.2	19742.0	14510.2
47.5°	15393.8	15372.6	15735.8	16519.6	18032.0	20009.6	23132.2	24487.4	23875.6	23493.3	16955.1
50°	13212.3	13316.4	13887.8	14981.7	16844.6	19546.6	23616.5	26596.7	26928.0	26522.3	18930.6
52.5°	10656.9	10652.7	11549.1	13033.9	15085.8	18527.0	23278.7	26979.0	27920.0	27609.9	19903.4
55°	7887.0	7942.3	8874.8	10372.3	12802.3	16666.2	22176.3	26586.1	28298.1	28079.3	20544.9
57°	5866.9	5964.7	6712.4	8297.0	10814.1	14824.5	20708.5	25883.0	28446.8	28327.9	21078.1
57.5°	5476.1	5480.3	6208.9	7649.1	10232.1	14117.2	20287.9	25589.8	28442.6	28376.7	21165.2
60°	3371.1	3477.3	3980.7	5170.2	7489.8	11018.0	17469.1	23905.4	28221.7	28317.2	21536.9
62.5°	2018.0	2062.6	2389.7	3116.2	4828.2	8042.1	14295.6	21749.3	27646.0	27937.0	21511.4
65°	1297.9	1308.5	1457.2	1886.3	3018.4	5435.7	11015.9	18900.8	26157.0	26692.3	20670.3
67.5°	1002.6	1019.6	1079.1	1238.4	1750.3	3385.9	7791.4	15861.1	23748.2	24438.5	18631.1
70°	890.0	898.5	919.8	970.7	1157.7	1911.7	4847.3	12390.3	19693.1	19888.6	14580.3
72.5°	726.5	749.8	815.7	832.7	917.6	1193.8	2697.7	8316.1	13231.4	13280.3	8156.8
75°	562.9	567.2	664.9	713.7	773.2	822.1	1204.4	4193.1	6355.5	6015.6	3143.8
77.5°	420.6	439.7	484.3	545.9	630.9	588.4	539.5	1580.4	1973.3	1937.2	913.4
80°	269.8	280.4	337.7	410.0	490.7	384.5	303.8	463.1	433.3	446.1	218.8
82.5°	135.9	138.1	216.7	333.5	312.3	193.3	191.2	189.1	161.4	159.3	102.0
85°	14.9	31.9	140.2	191.2	140.2	63.7	89.2	87.1	85.0	87.1	59.5
87.5°	2.1	2.1	23.4	27.6	19.1	21.2	25.5	27.6	34.0	31.9	25.5
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: P456937

CATALOG NUMBER: GALN-SA8B-727-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2576.6	2576.6	2576.6	2576.6	2576.6	2576.6	2576.6	2576.6	2576.6	2576.6	2576.6
2.5°	2653.1	2568.1	2410.9	2260.1	2147.5	2075.3	1981.8	1947.9	1899.0	1892.6	1869.3
5°	2767.8	2606.4	2332.3	2115.7	1941.5	1809.8	1695.1	1599.5	1523.0	1506.0	1514.5
7.5°	2931.3	2691.3	2309.0	2013.7	1771.6	1546.4	1363.7	1251.1	1170.4	1140.7	1144.9
10°	3116.2	2803.9	2304.7	1905.4	1535.8	1259.6	1060.0	960.1	913.4	896.4	877.3
12.5°	3334.9	2933.5	2294.1	1737.6	1276.6	1004.7	862.4	802.9	758.3	745.6	745.6
15°	3581.3	3071.5	2243.1	1529.4	1036.6	830.5	735.0	688.2	673.4	660.6	660.6
17.5°	3838.4	3207.5	2136.9	1272.4	860.3	711.6	652.1	624.5	603.3	588.4	588.4
20°	4131.5	3341.3	1967.0	1045.1	726.5	635.1	588.4	556.5	539.5	526.8	522.5
22.5°	4409.8	3449.6	1750.3	858.2	633.0	571.4	528.9	494.9	477.9	471.6	471.6
25°	4698.7	3515.5	1489.0	709.5	577.8	518.3	471.6	444.0	429.1	424.8	422.7
27.5°	4979.0	3553.7	1259.6	620.3	526.8	469.4	424.8	403.6	388.7	384.5	386.6
30°	5318.9	3560.1	1036.6	556.5	482.2	422.7	382.3	363.2	354.7	350.5	348.4
32.5°	5663.0	3551.6	870.9	518.3	439.7	382.3	348.4	333.5	327.1	320.7	320.7
35°	6049.6	3507.0	741.3	480.1	399.3	348.4	318.6	305.9	297.4	291.0	288.9
37.5°	6529.7	3483.6	667.0	437.6	363.2	316.5	288.9	276.1	269.8	261.3	259.1
40°	7285.9	3587.7	643.6	399.3	327.1	286.8	261.3	246.4	237.9	229.4	227.3
42.5°	8229.0	3770.4	605.4	361.1	295.3	259.1	233.7	216.7	201.8	191.2	186.9
45°	9450.4	4010.4	545.9	320.7	267.6	229.4	206.0	184.8	165.7	157.2	155.1
47.5°	10731.3	4242.0	492.8	288.9	237.9	203.9	178.4	155.1	138.1	131.7	129.6
50°	11517.2	4288.7	458.8	252.8	208.2	176.3	150.8	129.6	119.0	112.6	112.6
52.5°	11876.2	4214.3	412.1	220.9	180.6	155.1	129.6	112.6	106.2	102.0	99.8
55°	12126.9	4099.6	350.5	191.2	155.1	131.7	114.7	102.0	93.5	89.2	87.1
57°	12273.4	3944.6	303.8	167.8	133.8	114.7	102.0	91.3	82.8	74.3	74.3
57.5°	12279.8	3885.1	291.0	165.7	127.4	110.5	99.8	89.2	78.6	70.1	68.0
60°	12090.7	3477.3	233.7	140.2	102.0	93.5	82.8	70.1	55.2	46.7	44.6
62.5°	11483.2	2959.0	193.3	119.0	82.8	72.2	59.5	53.1	38.2	27.6	27.6
65°	10563.5	2400.3	165.7	95.6	68.0	53.1	40.4	38.2	23.4	12.7	10.6
67.5°	9233.7	1869.3	140.2	78.6	57.4	38.2	27.6	25.5	12.7	4.2	0.0
70°	7035.2	1274.5	116.8	63.7	42.5	27.6	19.1	14.9	8.5	2.1	0.0
72.5°	4055.0	701.0	97.7	48.9	31.9	21.2	14.9	8.5	8.5	0.0	0.0
75°	1448.7	301.6	74.3	36.1	25.5	17.0	10.6	4.2	6.4	2.1	0.0
77.5°	460.9	161.4	48.9	27.6	21.2	12.7	8.5	4.2	4.2	2.1	0.0
80°	135.9	85.0	29.7	23.4	14.9	10.6	6.4	2.1	4.2	2.1	0.0
82.5°	74.3	42.5	23.4	17.0	14.9	8.5	6.4	2.1	2.1	2.1	0.0
85°	38.2	25.5	19.1	17.0	14.9	8.5	6.4	2.1	0.0	2.1	2.1
87.5°	21.2	19.1	19.1	17.0	14.9	10.6	6.4	2.1	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)