

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: P456734

Luminaire Tested: **GALN-SA8A-730-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456734  
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-SA8A-730-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 615mA 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: 26926 lumens  
Efficiency: N/A  
Efficacy: 110.4 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

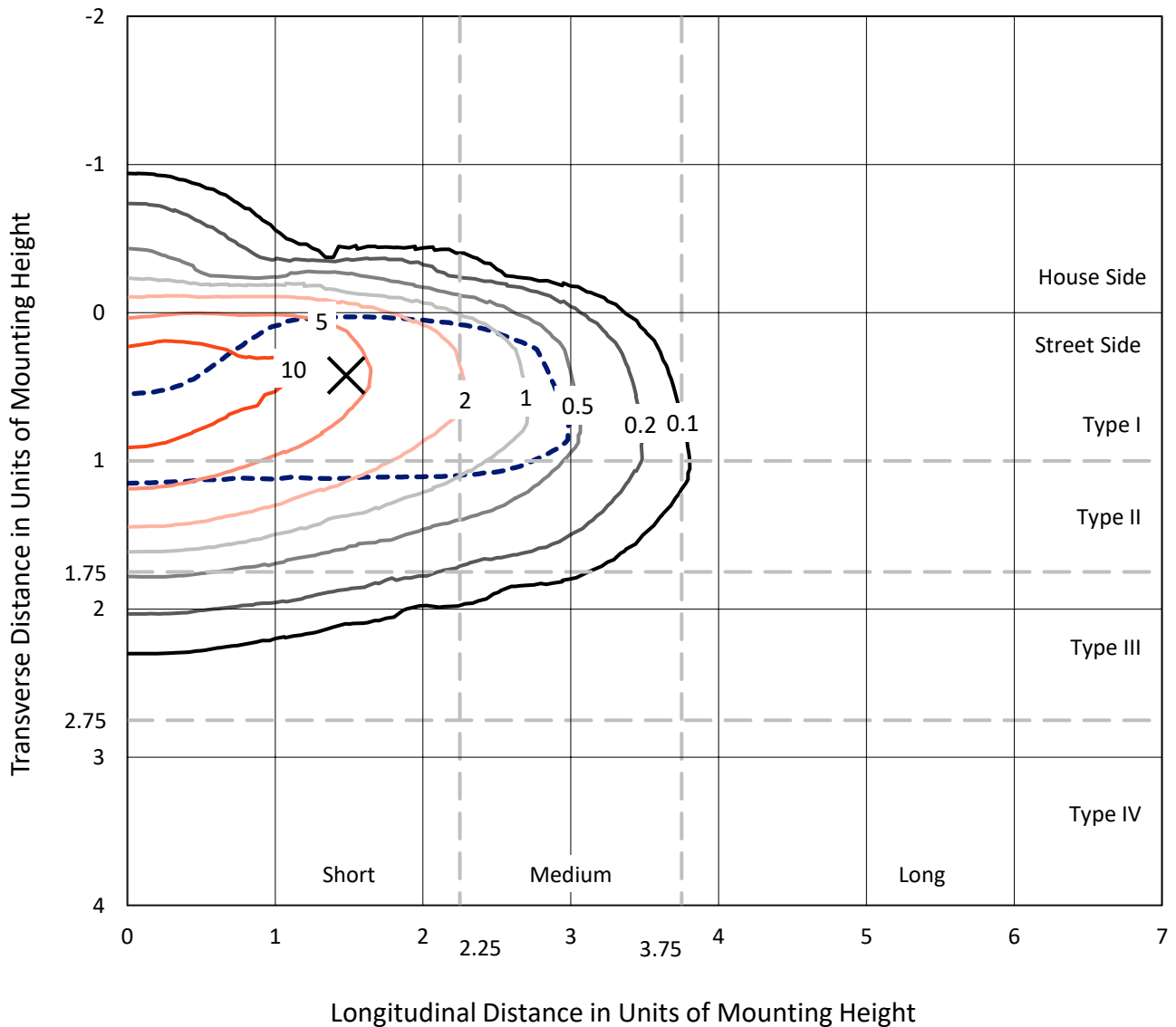
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P456734  
 CATALOG NUMBER: GALN-SA8A-730-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

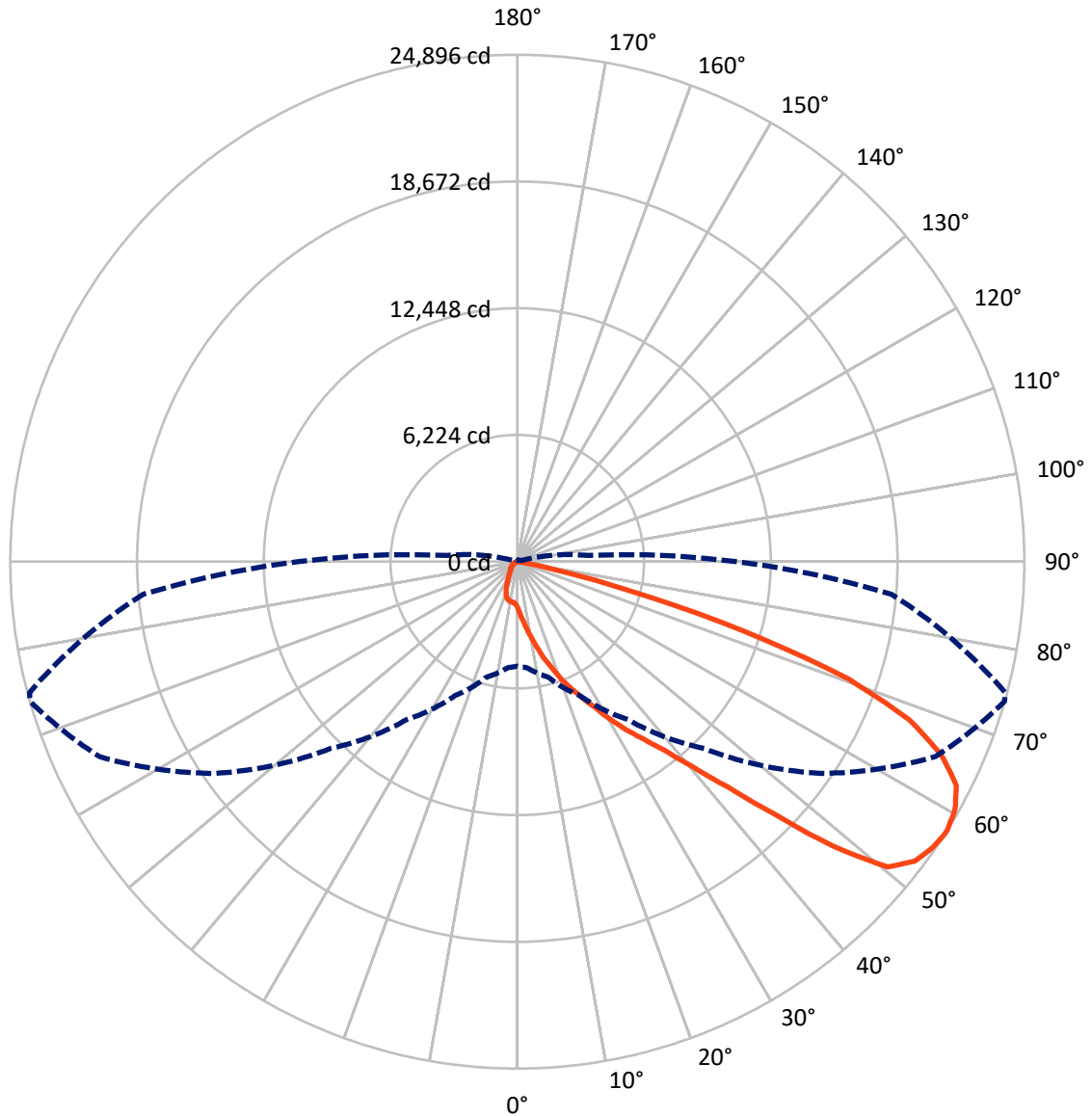
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc  
 Type II - Short - N/A

REPORT NUMBER: P456734  
CATALOG NUMBER: GALN-SA8A-730-U-T2R-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P456734

CATALOG NUMBER: GALN-SA8A-730-U-T2R-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1553.0	0.0	1553.0
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	25373.0	0.0	25373.0
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	26926.0	0.0	26926.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	272.2	1.0
10°-20°	1072.8	4.0
20°-30°	2295.6	8.5
30°-40°	4219.3	15.7
40°-50°	6468.3	24.0
50°-60°	6842.6	25.4
60°-70°	4468.4	16.6
70°-80°	1220.9	4.5
80°-90°	65.7	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°	26926.0	100.0
0°-180°	26926.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P456734

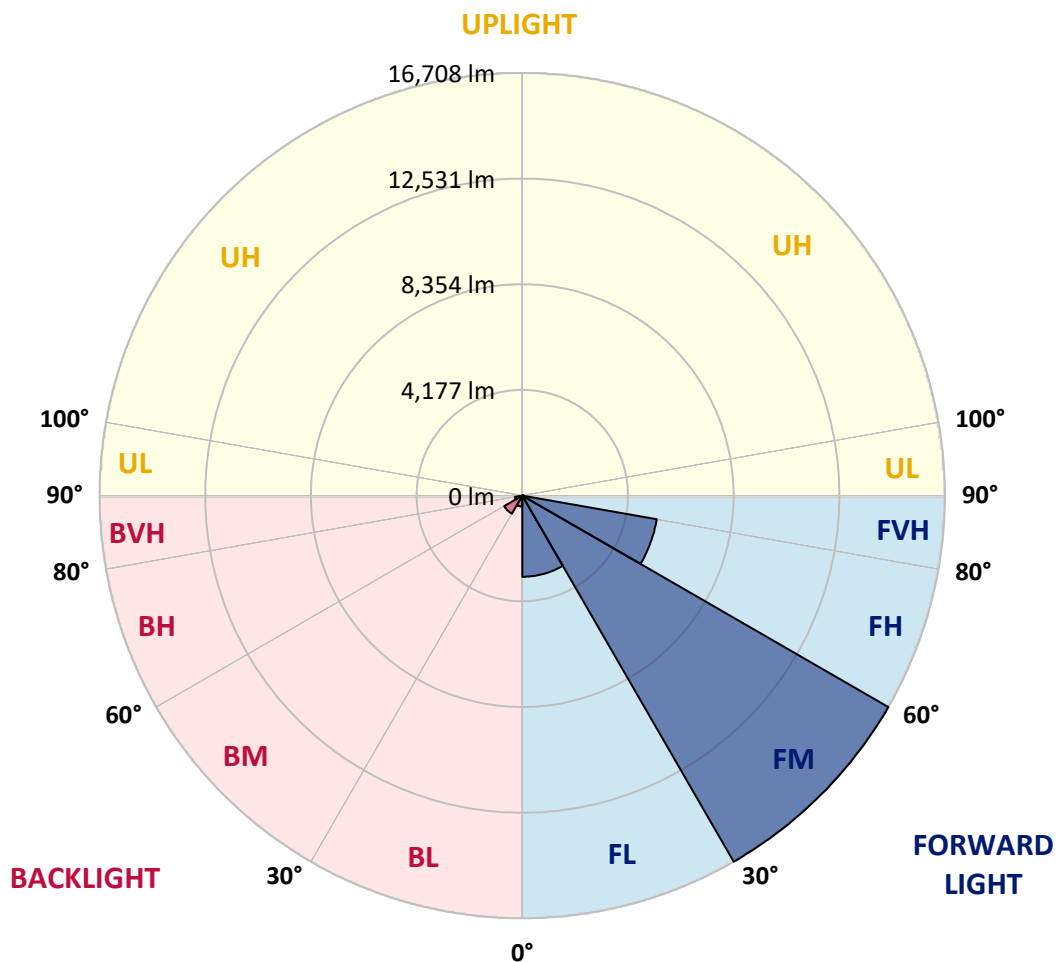
CATALOG NUMBER: GALN-SA8A-730-U-T2R-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3206.9	11.9			
FM (30°-60°)	16708.1	62.1			
FH (60°-80°)	5397.8	20.0			G3/7500
FVH (80°-90°)	60.3	0.2			G1/100
BL (0°-30°)	433.8	1.6	B1/500		
BM (30°-60°)	822.2	3.1	B1/1000		
BH (60°-80°)	291.6	1.1	B1/500		G1/500
BVH (80°-90°)	5.4	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: P456734

CATALOG NUMBER: GALN-SA8A-730-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2255.0	2255.0	2255.0	2255.0	2255.0	2255.0	2255.0	2255.0	2255.0	2255.0	2255.0
2.5°	3299.8	3270.1	3210.6	3190.1	3102.7	2967.0	2848.1	2688.2	2561.8	2548.7	2396.3
5°	4418.9	4352.0	4324.1	4190.3	3980.2	3783.1	3444.8	3188.3	2892.7	2870.4	2563.6
7.5°	5497.2	5404.2	5376.3	5249.9	5004.5	4694.1	4255.3	3788.7	3320.2	3277.5	2788.6
10°	6278.0	6291.0	6240.8	6157.1	5958.2	5642.2	5101.2	4463.6	3796.2	3742.3	3041.4
12.5°	6837.6	6835.7	6845.0	6843.1	6737.2	6497.4	5928.5	5194.2	4320.4	4214.4	3331.4
15°	7201.9	7207.5	7235.4	7332.1	7343.2	7194.5	6720.4	5893.2	4928.3	4796.3	3645.6
17.5°	7570.0	7609.1	7653.7	7744.8	7826.6	7767.1	7432.4	6621.9	5478.6	5380.1	3982.1
20°	8177.9	8231.8	8205.8	8261.6	8304.3	8309.9	8051.5	7294.9	6146.0	5980.5	4366.9
22.5°	9150.2	9148.3	9081.4	8981.0	8897.4	8893.7	8659.4	7986.4	6752.0	6592.2	4753.6
25°	10379.0	10384.6	10254.5	9968.2	9760.0	9505.3	9235.7	8592.5	7400.8	7203.8	5160.7
27.5°	11788.2	11752.9	11555.8	11161.7	10749.0	10314.0	9925.4	9297.1	8088.7	7925.1	5627.3
30°	13054.2	13041.2	12810.7	12329.2	11786.3	11349.4	10786.2	10180.1	8979.2	8778.4	6149.7
32.5°	14232.8	14251.4	13931.7	13433.4	12909.2	12405.4	11810.5	11024.1	9852.9	9568.5	6718.6
35°	15153.0	15171.6	14840.7	14426.2	13887.0	13468.8	12901.7	11923.9	10715.5	10475.7	7373.0
37.5°	15643.8	15668.0	15476.5	15164.2	14827.7	14617.6	14089.7	13082.1	11764.0	11619.0	8146.3
40°	15736.8	15764.7	15681.0	15597.4	15578.8	15729.4	15575.1	14446.6	13217.8	12991.0	9298.9
42.5°	15457.9	15495.1	15532.3	15718.2	16097.4	16649.6	17186.8	16298.2	15089.8	14785.0	10708.1
45°	14725.5	14721.8	14868.6	15350.1	16199.7	17378.3	18871.1	18616.4	17640.4	17277.9	12699.1
47.5°	13472.5	13453.9	13771.8	14457.8	15781.4	17512.2	20245.0	21431.0	20895.6	20561.0	14838.9
50°	11563.2	11654.3	12154.4	13111.8	14742.2	17106.9	20668.8	23277.1	23567.1	23212.0	16567.8
52.5°	9326.8	9323.1	10107.6	11407.1	13202.9	16214.6	20373.2	23611.7	24435.2	24163.8	17419.2
55°	6902.6	6951.0	7767.1	9077.7	11204.4	14586.0	19408.4	23267.8	24766.2	24574.7	17980.7
57°	5134.7	5220.2	5874.6	7261.4	9464.4	12974.3	18123.8	22652.4	24896.3	24792.2	18447.3
57.5°	4792.6	4796.3	5434.0	6694.4	8955.0	12355.2	17755.7	22395.9	24892.6	24834.9	18523.5
60°	2950.3	3043.3	3483.8	4524.9	6555.0	9642.8	15288.8	20921.7	24699.2	24782.9	18848.8
62.5°	1766.1	1805.1	2091.4	2727.2	4225.6	7038.3	12511.3	19034.7	24195.4	24450.1	18826.5
65°	1135.9	1145.2	1275.3	1650.8	2641.7	4757.3	9641.0	16541.8	22892.2	23360.7	18090.3
67.5°	877.5	892.3	944.4	1083.8	1531.9	2963.3	6819.0	13881.5	20784.1	21388.3	16305.7
70°	778.9	786.4	805.0	849.6	1013.2	1673.1	4242.3	10843.8	17235.2	17406.2	12760.5
72.5°	635.8	656.2	713.9	728.7	803.1	1044.8	2361.0	7278.1	11580.0	11622.7	7138.7
75°	492.6	496.4	581.9	624.6	676.7	719.4	1054.1	3669.7	5562.3	5264.8	2751.4
77.5°	368.1	384.8	423.9	477.8	552.1	515.0	472.2	1383.1	1727.0	1695.4	799.4
80°	236.1	245.4	295.6	358.8	429.4	336.5	265.8	405.3	379.2	390.4	191.5
82.5°	119.0	120.8	189.6	291.9	273.3	169.2	167.3	165.5	141.3	139.4	89.2
85°	13.0	27.9	122.7	167.3	122.7	55.8	78.1	76.2	74.4	76.2	52.1
87.5°	1.9	1.9	20.4	24.2	16.7	18.6	22.3	24.2	29.7	27.9	22.3
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: P456734

CATALOG NUMBER: GALN-SA8A-730-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2255.0	2255.0	2255.0	2255.0	2255.0	2255.0	2255.0	2255.0	2255.0	2255.0	2255.0
2.5°	2321.9	2247.6	2110.0	1978.0	1879.5	1816.3	1734.5	1704.7	1662.0	1656.4	1636.0
5°	2422.3	2281.0	2041.2	1851.6	1699.2	1583.9	1483.5	1399.9	1332.9	1318.1	1325.5
7.5°	2565.5	2355.4	2020.8	1762.4	1550.4	1353.4	1193.5	1095.0	1024.3	998.3	1002.0
10°	2727.2	2453.9	2017.1	1667.6	1344.1	1102.4	927.7	840.3	799.4	784.5	767.8
12.5°	2918.7	2567.3	2007.8	1520.7	1117.3	879.3	754.8	702.7	663.7	652.5	652.5
15°	3134.3	2688.2	1963.1	1338.5	907.2	726.9	643.2	602.3	589.3	578.2	578.2
17.5°	3359.3	2807.2	1870.2	1113.6	752.9	622.8	570.7	546.6	528.0	515.0	515.0
20°	3615.8	2924.3	1721.5	914.6	635.8	555.9	515.0	487.1	472.2	461.0	457.3
22.5°	3859.4	3019.1	1531.9	751.1	554.0	500.1	462.9	433.2	418.3	412.7	412.7
25°	4112.2	3076.7	1303.2	620.9	505.7	453.6	412.7	388.5	375.5	371.8	369.9
27.5°	4357.6	3110.2	1102.4	542.8	461.0	410.8	371.8	353.2	340.2	336.5	338.3
30°	4655.0	3115.8	907.2	487.1	422.0	369.9	334.6	317.9	310.5	306.7	304.9
32.5°	4956.2	3108.3	762.2	453.6	384.8	334.6	304.9	291.9	286.3	280.7	280.7
35°	5294.6	3069.3	648.8	420.1	349.5	304.9	278.9	267.7	260.3	254.7	252.8
37.5°	5714.7	3048.8	583.7	383.0	317.9	277.0	252.8	241.7	236.1	228.7	226.8
40°	6376.5	3139.9	563.3	349.5	286.3	251.0	228.7	215.6	208.2	200.8	198.9
42.5°	7201.9	3299.8	529.8	316.0	258.4	226.8	204.5	189.6	176.6	167.3	163.6
45°	8270.9	3509.9	477.8	280.7	234.2	200.8	180.3	161.7	145.0	137.6	135.7
47.5°	9391.9	3712.5	431.3	252.8	208.2	178.5	156.2	135.7	120.8	115.3	113.4
50°	10079.7	3753.4	401.6	221.2	182.2	154.3	132.0	113.4	104.1	98.5	98.5
52.5°	10393.9	3688.3	360.7	193.3	158.0	135.7	113.4	98.5	93.0	89.2	87.4
55°	10613.3	3588.0	306.7	167.3	135.7	115.3	100.4	89.2	81.8	78.1	76.2
57°	10741.5	3452.2	265.8	146.9	117.1	100.4	89.2	79.9	72.5	65.1	65.1
57.5°	10747.1	3400.2	254.7	145.0	111.5	96.7	87.4	78.1	68.8	61.3	59.5
60°	10581.7	3043.3	204.5	122.7	89.2	81.8	72.5	61.3	48.3	40.9	39.0
62.5°	10050.0	2589.6	169.2	104.1	72.5	63.2	52.1	46.5	33.5	24.2	24.2
65°	9245.0	2100.7	145.0	83.7	59.5	46.5	35.3	33.5	20.4	11.2	9.3
67.5°	8081.3	1636.0	122.7	68.8	50.2	33.5	24.2	22.3	11.2	3.7	0.0
70°	6157.1	1115.4	102.2	55.8	37.2	24.2	16.7	13.0	7.4	1.9	0.0
72.5°	3548.9	613.5	85.5	42.8	27.9	18.6	13.0	7.4	7.4	0.0	0.0
75°	1267.9	264.0	65.1	31.6	22.3	14.9	9.3	3.7	5.6	1.9	0.0
77.5°	403.4	141.3	42.8	24.2	18.6	11.2	7.4	3.7	3.7	1.9	0.0
80°	119.0	74.4	26.0	20.4	13.0	9.3	5.6	1.9	3.7	1.9	0.0
82.5°	65.1	37.2	20.4	14.9	13.0	7.4	5.6	1.9	1.9	1.9	0.0
85°	33.5	22.3	16.7	14.9	13.0	7.4	5.6	1.9	0.0	1.9	1.9
87.5°	18.6	16.7	16.7	14.9	13.0	9.3	5.6	1.9	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)