

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: P459201

Luminaire Tested: **GALN-SA6D-735-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459201
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6D-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31374 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

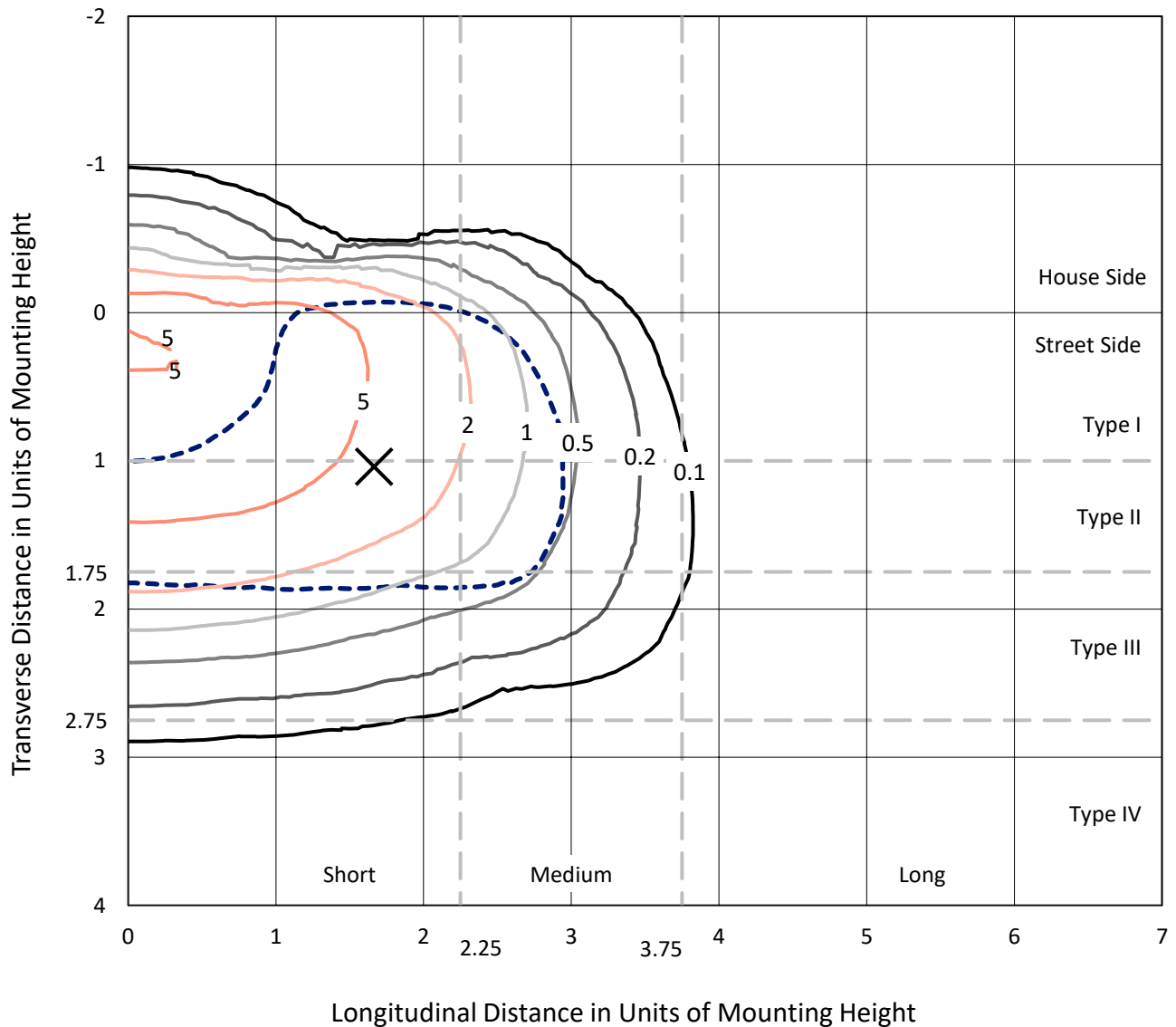
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459201
 CATALOG NUMBER: GALN-SA6D-735-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

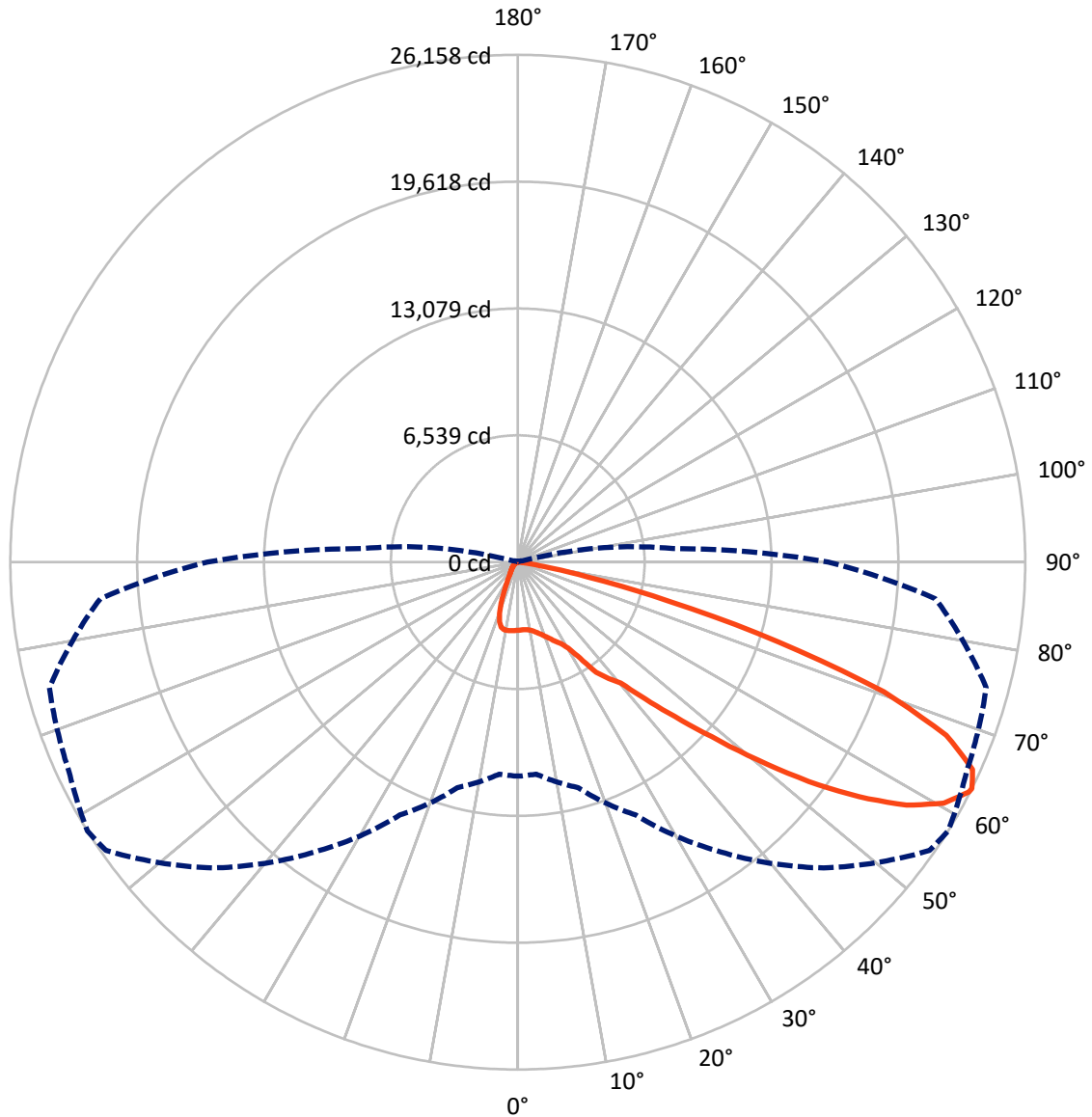
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Short - N/A

REPORT NUMBER: P459201
CATALOG NUMBER: GALN-SA6D-735-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P459201

CATALOG NUMBER: GALN-SA6D-735-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3248.6	0.0	3248.6
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	28125.4	0.0	28125.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	31374.0	0.0	31374.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.8	1.0
10°-20°	895.6	2.9
20°-30°	1554.3	5.0
30°-40°	2856.2	9.1
40°-50°	5376.7	17.1
50°-60°	9196.5	29.3
60°-70°	8805.6	28.1
70°-80°	2245.5	7.2
80°-90°	114.8	0.4
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°	31374.0	100.0
0°-180°	31374.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459201

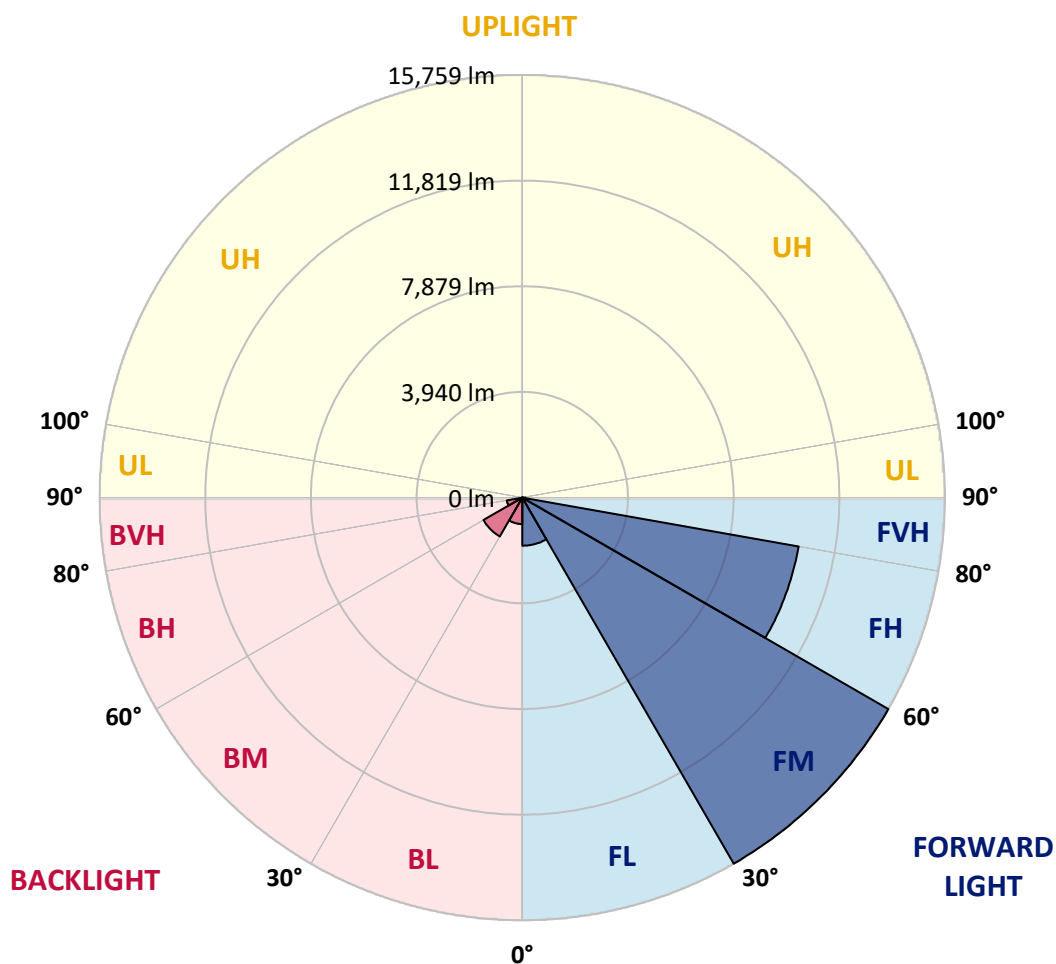
CATALOG NUMBER: GALN-SA6D-735-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1793.5	5.7			
FM	(30°-60°)	15758.5	50.2			
FH	(60°-80°)	10463.1	33.3			G4/12000
FVH	(80°-90°)	110.4	0.4			G2/225
BL	(0°-30°)	985.2	3.1	B2/1000		
BM	(30°-60°)	1670.9	5.3	B2/2500		
BH	(60°-80°)	588.0	1.9	B2/1000		G2/1000
BVH	(80°-90°)	4.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





REPORT NUMBER: P459201

CATALOG NUMBER: GALN-SA6D-735-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3512.4	3512.4	3512.4	3512.4	3512.4	3512.4	3512.4	3512.4	3512.4	3512.4	3512.4
2.5°	3425.0	3436.9	3448.7	3453.4	3469.9	3486.5	3498.3	3495.9	3514.8	3524.3	3524.3
5°	3288.0	3288.0	3318.7	3347.1	3394.3	3441.6	3486.5	3495.9	3531.3	3564.4	3576.2
7.5°	3172.3	3179.4	3203.0	3255.0	3318.7	3401.4	3491.2	3512.4	3573.9	3647.1	3677.8
10°	3118.0	3122.7	3153.4	3207.7	3288.0	3401.4	3526.6	3566.8	3661.3	3777.0	3819.5
12.5°	3106.2	3113.2	3144.0	3205.4	3297.5	3434.5	3604.6	3647.1	3784.1	3932.9	3996.7
15°	3127.4	3132.1	3162.9	3229.0	3330.6	3493.5	3708.5	3767.5	3930.5	4103.0	4185.6
17.5°	3203.0	3198.3	3219.5	3273.9	3387.2	3566.8	3833.7	3904.5	4095.9	4332.1	4386.4
20°	3524.3	3493.5	3474.6	3427.4	3472.3	3670.7	3984.9	4088.8	4325.0	4565.9	4603.7
22.5°	4216.3	4147.8	4013.2	3829.0	3687.2	3812.4	4166.7	4287.2	4591.9	4828.1	4828.1
25°	5097.4	5010.0	4875.4	4473.8	4126.6	4046.3	4372.2	4523.4	4882.5	5121.0	5043.1
27.5°	6200.5	6132.0	5869.8	5402.1	4870.6	4454.9	4610.8	4750.2	5139.9	5428.1	5265.1
30°	7098.1	7065.0	6850.1	6432.0	5846.2	5239.1	5054.9	5147.0	5482.4	5815.5	5647.8
32.5°	7856.3	7856.3	7636.7	7246.9	6698.9	6160.4	5808.4	5874.5	6195.8	6580.8	6269.0
35°	8690.2	8661.8	8484.7	8113.8	7499.7	7024.9	6880.8	6970.6	7261.1	7546.9	6779.2
37.5°	9566.5	9557.1	9372.8	9013.8	8513.0	7915.4	7577.6	7601.2	7750.0	7924.8	7376.8
40°	10518.4	10532.6	10291.7	10069.6	9597.2	8985.4	8338.2	8189.4	8328.8	8822.4	8479.9
42.5°	11642.8	11609.7	11505.8	11203.4	10823.1	10457.0	9679.9	9625.6	9748.4	10277.5	9906.6
45°	12949.0	12996.3	12816.7	12649.0	12393.9	12089.2	11439.6	11345.2	11479.8	12301.8	11775.1
47.5°	14257.6	14212.7	14328.5	14297.8	14434.8	14208.0	13634.0	13440.3	13763.9	14543.4	13768.7
50°	15254.4	15304.0	15545.0	15896.9	16485.1	16612.6	16062.3	15996.1	16140.2	16641.0	15552.1
52.5°	15901.6	16067.0	16444.9	17349.6	18410.2	19234.6	18816.5	18781.0	18722.0	18856.6	17257.5
55°	16324.5	16492.2	16985.9	18318.1	20144.0	21483.3	21504.5	21353.4	20963.6	20866.8	18851.9
57.5°	16064.6	16097.7	16801.6	18582.6	21105.4	23087.2	23781.6	23630.4	22910.0	22543.9	20259.7
60°	14439.5	14508.0	15488.3	17581.1	20687.3	23611.5	25291.0	25222.5	24433.5	24020.2	21355.7
62.5°	11560.1	11758.5	12767.1	15100.9	18743.3	22728.1	25902.8	26096.5	25482.3	24913.1	21700.6
63°	11031.0	10967.2	12032.5	14378.1	18228.3	22291.1	25912.2	26157.9	25529.6	24998.1	21606.1
65°	8165.8	8357.1	9049.2	11338.1	15169.4	20257.4	25328.8	25763.4	25354.8	24622.5	20559.7
67.5°	4584.8	4575.4	5340.7	7419.4	10617.6	15889.8	22902.9	23821.8	23736.7	22095.1	17042.5
70°	2244.0	2279.4	2593.6	3845.5	6158.0	10962.5	19031.4	20023.5	20054.2	17354.3	11784.5
72.5°	1015.7	1032.2	1256.6	1873.1	3165.2	5836.7	13114.4	14061.6	13886.8	11059.3	6507.6
75°	536.2	571.6	692.1	942.5	1525.9	2407.0	7133.5	8050.0	7683.9	5052.5	2395.2
77.5°	396.8	408.6	470.1	600.0	817.3	937.8	3077.8	3661.3	3429.8	1828.3	793.7
80°	290.5	300.0	349.6	425.2	514.9	477.1	1159.8	1329.9	1192.9	621.2	243.3
82.5°	177.2	179.5	255.1	316.5	323.6	266.9	382.7	411.0	429.9	349.6	132.3
85°	63.8	80.3	172.4	229.1	191.3	134.6	160.6	177.2	193.7	222.0	77.9
87.5°	7.1	9.4	82.7	111.0	54.3	49.6	59.1	66.1	70.9	82.7	37.8
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: P459201
 CATALOG NUMBER: GALN-SA6D-735-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3512.4	3512.4	3512.4	3512.4	3512.4	3512.4	3512.4	3512.4	3512.4	3512.4	3512.4
2.5°	3533.7	3543.1	3536.1	3524.3	3521.9	3514.8	3500.6	3500.6	3500.6	3505.4	3500.6
5°	3585.7	3592.8	3576.2	3552.6	3526.6	3493.5	3458.1	3436.9	3434.5	3429.8	3418.0
7.5°	3684.9	3694.3	3656.5	3599.8	3529.0	3448.7	3373.1	3302.2	3269.1	3243.2	3243.2
10°	3829.0	3838.4	3762.8	3661.3	3519.5	3356.5	3177.0	3014.0	2886.5	2827.4	2813.3
12.5°	4001.4	4006.1	3880.9	3703.8	3469.9	3155.8	2773.1	2416.4	2168.4	2055.0	2043.2
15°	4190.4	4157.3	3991.9	3720.3	3328.2	2742.4	2081.0	1644.0	1386.6	1311.0	1339.3
17.5°	4381.7	4320.3	4077.0	3694.3	3009.3	2081.0	1398.4	1122.0	1041.7	1020.4	1020.4
20°	4561.2	4476.2	4138.4	3580.9	2456.6	1433.8	1037.0	970.8	956.6	942.5	944.8
22.5°	4740.7	4610.8	4192.7	3328.2	1830.6	1025.2	928.3	907.0	888.1	869.3	866.9
25°	4915.5	4736.0	4214.0	2860.5	1247.2	881.1	848.0	819.6	781.9	760.6	755.9
27.5°	5097.4	4887.2	4199.8	2270.0	909.4	788.9	755.9	715.7	670.8	633.0	633.0
30°	5447.0	5175.4	4150.2	1632.2	765.3	694.5	651.9	588.2	538.6	500.8	498.4
32.5°	5924.1	5550.9	3980.1	1148.0	680.3	611.8	548.0	477.1	425.2	396.8	396.8
35°	6349.3	5928.9	3661.3	845.6	611.8	531.5	453.5	385.0	344.9	326.0	318.9
37.5°	6996.5	6481.6	3221.9	687.4	545.6	460.6	380.3	316.5	283.5	269.3	269.3
40°	7967.4	7157.2	2683.3	602.3	481.9	392.1	316.5	266.9	240.9	224.4	224.4
42.5°	9172.0	7983.9	2137.7	540.9	422.8	337.8	264.6	226.8	203.1	191.3	189.0
45°	10688.5	8855.5	1646.4	484.2	375.6	288.2	224.4	191.3	167.7	160.6	163.0
47.5°	12271.1	9623.2	1275.5	434.6	326.0	243.3	191.3	165.3	148.8	139.4	139.4
50°	13622.2	10152.3	968.5	377.9	288.2	205.5	167.7	148.8	134.6	129.9	127.6
52.5°	14751.3	10305.8	741.7	328.3	252.7	177.2	148.8	134.6	122.8	115.7	115.7
55°	15712.7	10171.2	581.1	276.4	212.6	153.5	132.3	120.5	106.3	99.2	96.8
57.5°	16274.9	9738.9	444.1	229.1	172.4	127.6	115.7	101.6	85.0	73.2	73.2
60°	16558.3	9110.6	340.1	189.0	132.3	101.6	94.5	75.6	59.1	49.6	47.2
62.5°	16218.2	8276.8	257.5	148.8	99.2	75.6	63.8	54.3	37.8	28.3	28.3
63°	16007.9	8035.9	248.0	141.7	92.1	70.9	59.1	49.6	33.1	26.0	23.6
65°	14593.0	6984.7	203.1	113.4	73.2	49.6	40.2	35.4	23.6	11.8	9.4
67.5°	11588.5	5343.1	160.6	85.0	52.0	35.4	23.6	21.3	7.1	0.0	0.0
70°	7835.1	3451.0	125.2	61.4	35.4	21.3	11.8	9.4	2.4	0.0	0.0
72.5°	4086.4	1769.2	96.8	44.9	21.3	14.2	7.1	2.4	0.0	0.0	0.0
75°	1445.6	602.3	70.9	28.3	14.2	7.1	2.4	0.0	0.0	0.0	0.0
77.5°	437.0	224.4	44.9	21.3	9.4	4.7	0.0	0.0	0.0	0.0	0.0
80°	153.5	82.7	26.0	14.2	7.1	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	75.6	40.2	16.5	11.8	7.1	2.4	0.0	0.0	0.0	0.0	0.0
85°	42.5	26.0	14.2	11.8	7.1	4.7	0.0	0.0	0.0	0.0	0.0
87.5°	30.7	18.9	14.2	11.8	9.4	4.7	2.4	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)