

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: P459292

Luminaire Tested: **GALN-SA7C-735-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459292
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32848 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

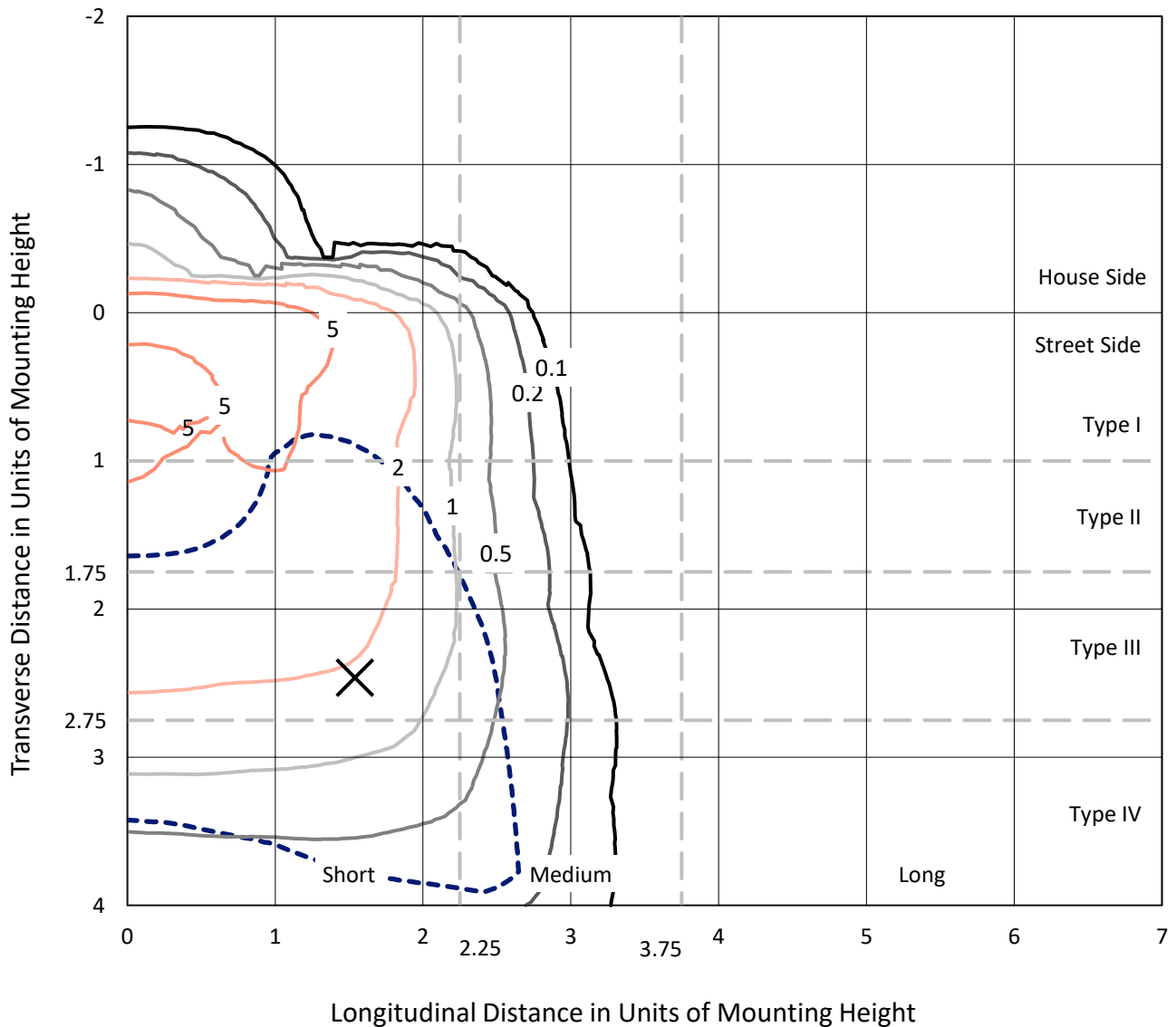
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

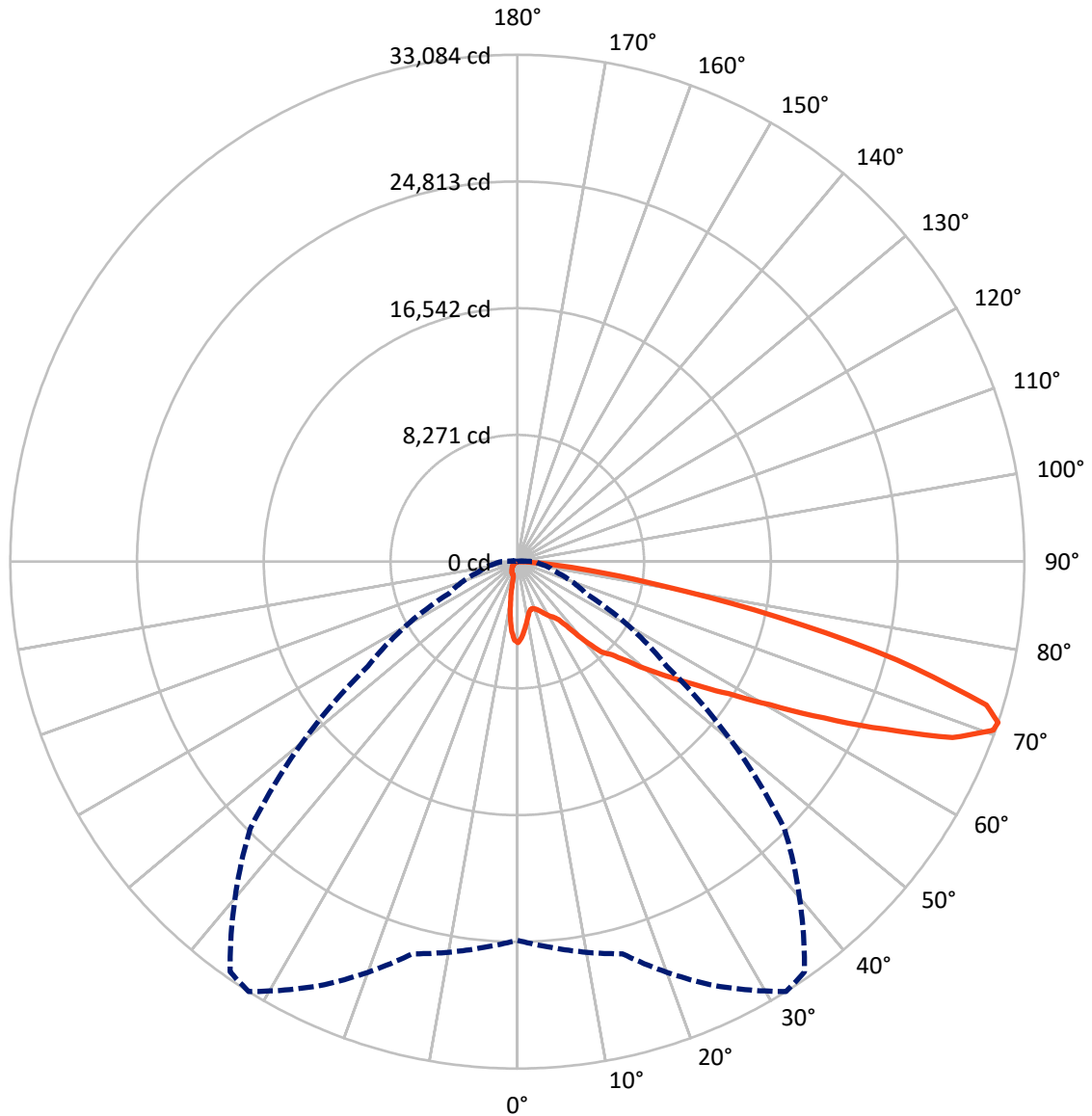
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2751.4	0.0	2751.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	30096.6	0.0	30096.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	32848.0	0.0	32848.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.5	1.3
10°-20°	932.2	2.8
20°-30°	1450.3	4.4
30°-40°	2416.1	7.4
40°-50°	4494.4	13.7
50°-60°	7215.9	22.0
60°-70°	9705.8	29.5
70°-80°	5758.6	17.5
80°-90°	445.1	1.4
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°	32848.0	100.0
0°-180°	32848.0	100.0



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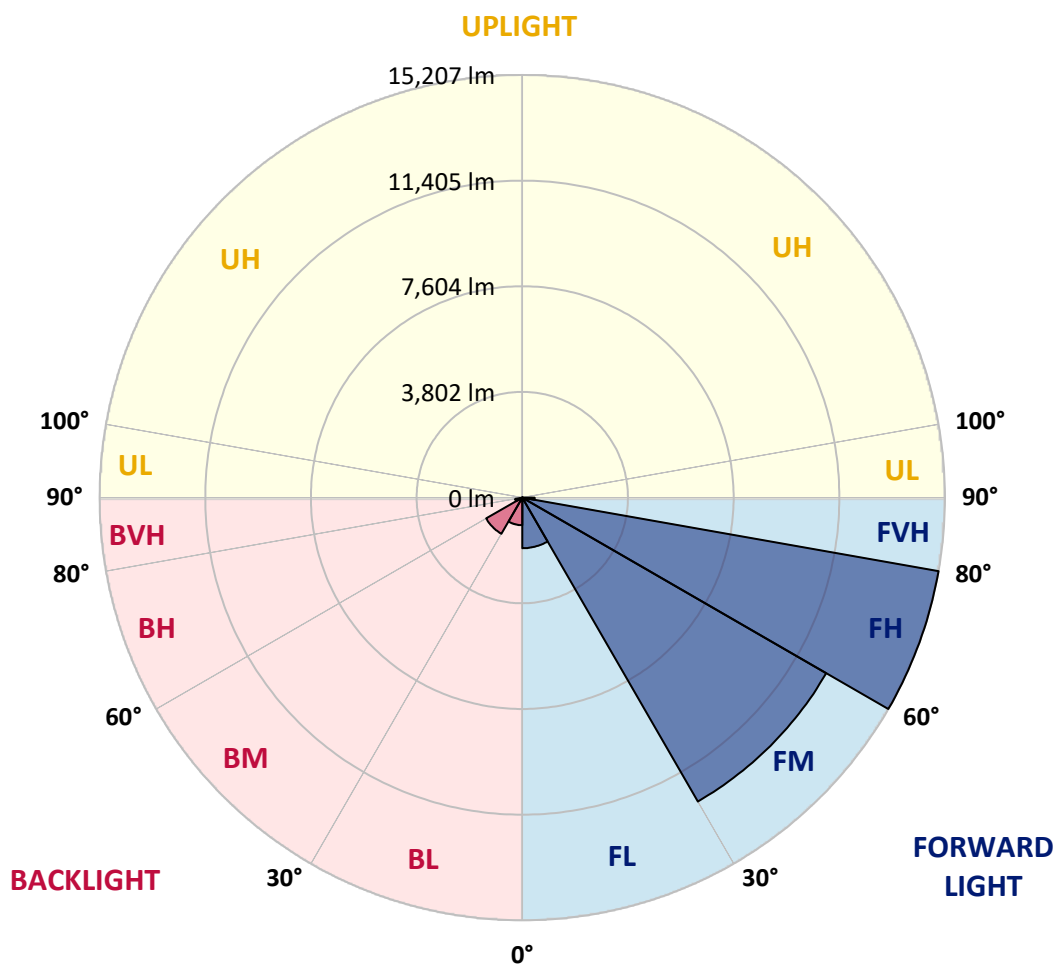
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1820.7	5.5			
FM	(30°-60°)	12625.6	38.4			
FH	(60°-80°)	15207.0	46.3			G5
FVH	(80°-90°)	443.4	1.3			G3/500
BL	(0°-30°)	991.4	3.0	B2/1000		
BM	(30°-60°)	1500.9	4.6	B2/2500		
BH	(60°-80°)	257.3	0.8	B1/500		G1/500
BVH	(80°-90°)	1.7	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	5282.5	5282.5	5282.5	5282.5	5282.5	5282.5	5282.5	5282.5	5282.5	5282.5	5282.5
2.5°	4899.2	4949.6	4942.1	4959.7	5002.6	5020.2	5068.1	5121.1	5194.2	5244.6	5277.4
5°	4387.4	4425.2	4430.2	4518.5	4561.3	4609.2	4750.4	4904.3	5075.7	5211.9	5302.6
7.5°	3840.2	3860.4	3900.7	4016.7	4125.1	4173.0	4387.4	4654.6	4924.4	5179.1	5343.0
10°	3388.9	3411.5	3484.7	3608.2	3709.1	3772.1	4069.6	4405.0	4783.2	5161.4	5401.0
12.5°	3131.7	3144.3	3172.0	3282.9	3411.5	3479.6	3799.8	4183.1	4669.8	5169.0	5499.3
15°	3114.0	3109.0	3076.2	3121.6	3237.6	3308.2	3620.8	4031.8	4568.9	5194.2	5615.3
17.5°	3207.3	3194.7	3116.5	3116.5	3212.3	3270.3	3545.2	3951.1	4518.5	5252.2	5779.2
20°	3351.0	3330.9	3202.3	3192.2	3285.5	3346.0	3590.6	3956.2	4528.6	5360.6	5998.6
22.5°	3532.6	3509.9	3315.7	3320.8	3421.6	3482.1	3721.7	4047.0	4591.6	5494.3	6233.1
25°	3769.6	3744.4	3514.9	3504.8	3610.7	3663.7	3915.8	4208.3	4679.8	5660.7	6540.7
27.5°	4084.8	4031.8	3757.0	3741.9	3855.3	3923.4	4150.3	4425.2	4836.2	5890.1	6954.2
30°	4344.5	4286.5	4024.3	3983.9	4104.9	4157.9	4392.4	4717.7	5143.8	6291.1	7526.6
32.5°	4684.9	4599.2	4291.5	4185.6	4314.2	4382.3	4742.9	5262.3	5600.2	6714.7	8207.4
35°	5451.4	5398.5	5022.8	4652.1	4644.5	4730.3	5259.8	5812.0	6069.2	7375.3	9135.3
37.5°	6548.2	6510.4	6112.0	5615.3	5471.6	5431.2	5887.6	6417.1	6818.0	8283.0	10214.5
40°	7821.6	7733.3	7367.7	6946.6	6760.1	6641.5	6628.9	7317.3	7796.4	9516.0	11339.0
42.5°	8734.4	8573.0	8129.2	8098.9	8058.6	7935.1	7577.0	8633.5	9059.6	10842.3	12541.8
45°	9692.5	9447.9	8787.3	8673.8	8658.7	8651.2	9009.2	10191.8	10436.3	12279.5	13777.3
47.5°	10436.3	10242.2	9700.1	9649.7	9712.7	9884.1	10902.8	11845.8	11795.4	13560.4	14813.6
50°	11427.3	11281.0	10678.4	10774.2	11099.5	11379.4	13038.5	13648.7	12912.4	14569.0	15567.5
52.5°	12597.2	12327.4	11767.7	12027.4	12526.6	12993.1	15305.3	15227.1	13696.6	15328.0	16129.8
55°	13610.9	13419.2	13227.6	13497.4	14243.8	14826.2	17352.7	16409.7	14266.5	15938.2	16376.9
57.5°	15325.5	15280.1	15083.4	15358.3	16263.5	16868.6	19185.8	17327.5	14632.1	16255.9	16087.0
60°	17862.1	17788.9	17423.3	17773.8	18953.9	19904.5	20875.2	18152.0	14715.3	16132.3	15252.3
62.5°	20913.0	20663.4	20350.8	20867.7	22486.4	22905.0	22466.3	18641.2	14405.1	15149.0	13240.2
65°	23762.3	23505.1	23512.7	24601.9	26364.4	26649.4	24322.1	18568.1	13497.4	12685.5	9765.6
67.5°	25943.4	25900.5	26208.1	28333.7	30638.3	30441.7	25981.2	17473.8	10807.0	8222.5	5189.2
70°	26054.3	26137.5	27020.0	30608.1	32948.0	32635.3	25840.0	14203.4	6737.4	3782.2	2044.9
71°	24712.9	25272.7	26493.0	30537.5	33084.2	32678.2	24649.9	11896.3	4942.1	2637.5	1475.1
72.5°	21059.3	21354.3	23991.7	28739.7	32007.5	31140.1	21631.7	8338.5	3164.4	1613.7	847.2
75°	11598.7	12324.9	16066.8	22546.9	25600.4	24839.0	14097.5	3961.2	1578.4	882.5	350.5
77.5°	5522.0	5380.8	7839.2	13409.2	17357.8	17317.4	7103.0	1760.0	920.3	597.6	176.5
80°	1578.4	1775.1	3000.5	6374.3	9637.0	9742.9	2728.2	849.7	637.9	466.5	90.8
82.5°	476.6	486.6	1101.9	2819.0	4793.3	4518.5	1023.7	433.7	458.9	370.7	53.0
85°	83.2	103.4	325.3	993.5	1828.1	1386.8	257.2	206.8	302.6	244.6	30.3
87.5°	5.0	7.6	108.4	113.5	161.4	93.3	45.4	30.3	65.6	65.6	17.7
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°	5282.5	5282.5	5282.5	5282.5	5282.5	5282.5	5282.5	5282.5	5282.5	5282.5	5282.5
2.5°	5300.1	5315.3	5305.2	5282.5	5244.6	5199.3	5138.7	5088.3	5045.5	5022.8	5050.5
5°	5332.9	5353.1	5302.6	5189.2	5017.7	4831.1	4619.3	4455.4	4326.8	4286.5	4271.4
7.5°	5383.3	5395.9	5259.8	5007.6	4644.5	4203.3	3817.5	3492.2	3240.1	3164.4	3053.5
10°	5448.9	5441.3	5184.1	4715.1	4077.2	3414.1	2816.5	2372.7	2037.3	1916.3	1906.2
12.5°	5549.7	5509.4	5088.3	4316.7	3401.5	2534.1	1795.3	1404.5	1192.7	1122.1	1106.9
15°	5675.8	5580.0	4937.0	3850.3	2604.7	1636.4	1106.9	988.4	960.7	955.6	950.6
17.5°	5824.6	5673.3	4737.8	3277.9	1830.6	1061.5	925.4	922.9	925.4	920.3	917.8
20°	6026.3	5771.6	4500.8	2599.6	1210.3	895.1	882.5	882.5	885.0	882.5	882.5
22.5°	6240.6	5887.6	4208.3	1984.4	912.8	849.7	847.2	852.3	857.3	854.8	854.8
25°	6505.4	6038.9	3822.5	1359.1	817.0	811.9	814.4	824.5	834.6	837.1	834.6
27.5°	6888.6	6225.5	3409.0	935.5	748.9	753.9	779.1	804.3	819.5	822.0	822.0
30°	7319.8	6432.3	2869.4	759.0	693.4	693.4	723.7	771.6	804.3	809.4	811.9
32.5°	7874.5	6671.8	2271.8	683.3	640.5	635.4	663.1	721.1	781.7	799.3	799.3
35°	8560.4	6954.2	1689.4	635.4	602.6	590.0	605.2	653.1	731.2	781.7	786.7
37.5°	9364.7	7221.5	1235.5	592.5	567.3	549.7	559.8	597.6	660.6	736.3	756.4
40°	10108.6	7458.5	922.9	557.2	532.0	519.4	527.0	544.6	597.6	668.2	680.8
42.5°	10920.5	7642.6	733.7	519.4	496.7	491.7	491.7	499.3	534.6	574.9	577.4
45°	11729.9	7708.1	615.2	474.0	458.9	463.9	461.4	456.4	471.5	466.5	466.5
47.5°	12307.3	7630.0	509.3	431.2	431.2	438.7	426.1	408.5	400.9	370.7	373.2
50°	12703.1	7345.0	418.6	380.7	400.9	411.0	385.8	358.0	330.3	297.5	290.0
52.5°	12867.0	6838.2	342.9	315.2	355.5	368.1	337.9	305.1	262.2	234.5	226.9
55°	12761.1	6212.9	284.9	257.2	300.1	315.2	284.9	247.1	199.2	168.9	163.9
57.5°	12294.7	5466.5	242.1	204.2	239.5	249.6	229.5	189.1	141.2	110.9	110.9
60°	11487.8	4695.0	196.7	161.4	179.0	194.2	174.0	136.2	95.8	68.1	63.0
62.5°	9851.4	3812.5	158.9	126.1	126.1	138.7	121.0	98.3	60.5	35.3	32.8
65°	7113.1	2614.8	126.1	93.3	90.8	90.8	75.6	65.6	35.3	15.1	10.1
67.5°	3865.4	1475.1	100.9	70.6	63.0	60.5	47.9	37.8	15.1	2.5	0.0
70°	1520.4	567.3	78.2	47.9	40.3	37.8	25.2	17.7	10.1	0.0	0.0
71°	1031.3	390.8	68.1	40.3	32.8	27.7	20.2	15.1	7.6	0.0	0.0
72.5°	590.0	242.1	53.0	30.3	25.2	20.2	15.1	10.1	7.6	0.0	0.0
75°	257.2	123.6	32.8	22.7	17.7	12.6	10.1	7.6	2.5	0.0	0.0
77.5°	131.1	68.1	22.7	17.7	10.1	7.6	5.0	2.5	0.0	0.0	0.0
80°	73.1	35.3	15.1	10.1	7.6	5.0	2.5	2.5	0.0	0.0	0.0
82.5°	40.3	20.2	7.6	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.2	12.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.6	5.0	0.0	0.0	0.0	0.0	2.5	2.5	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)