

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: P456568

Luminaire Tested: **GALN-SA7D-750-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456568  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7D-750-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38979 lumens  
Efficiency: N/A  
Efficacy: 90.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G5

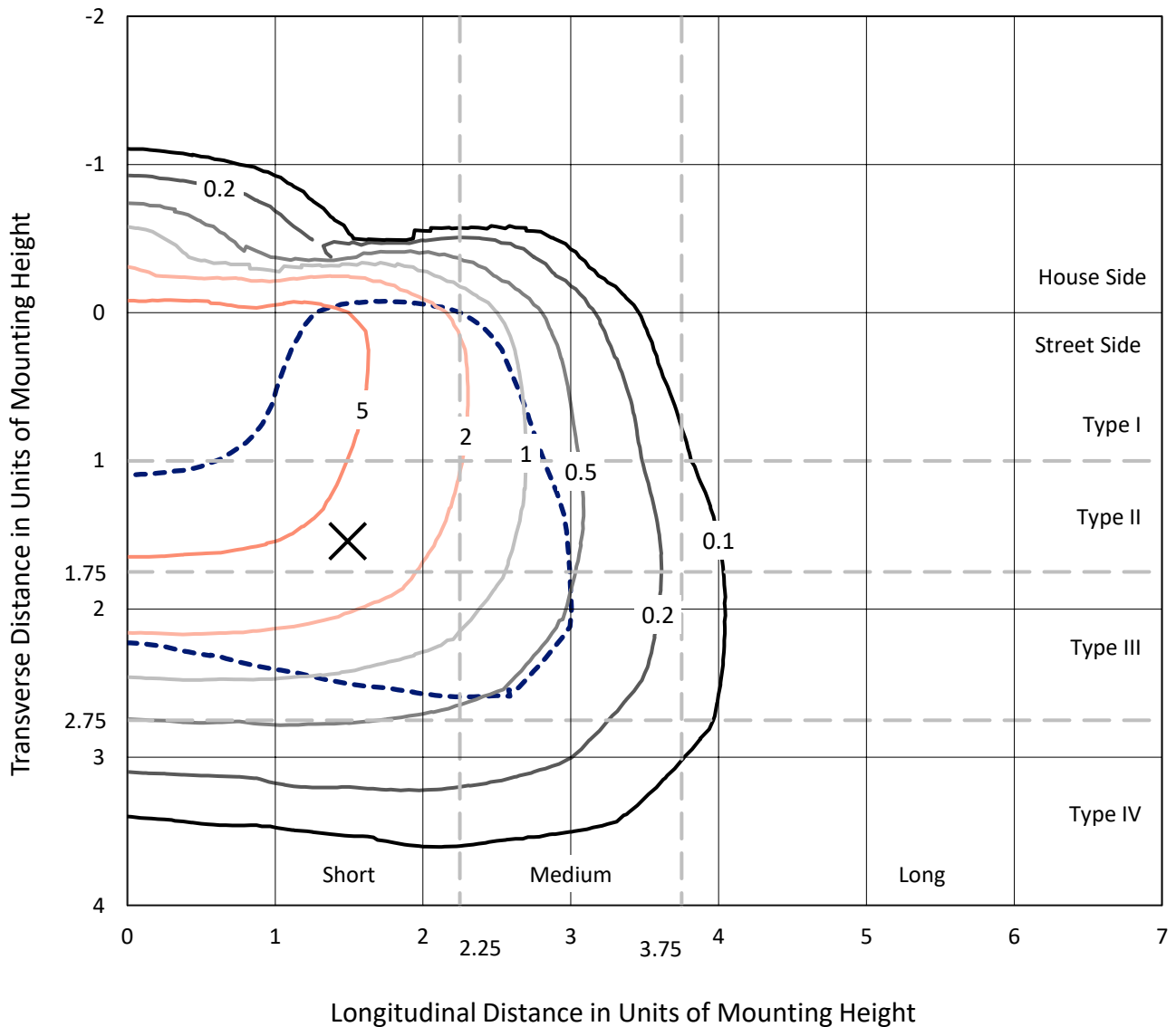
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

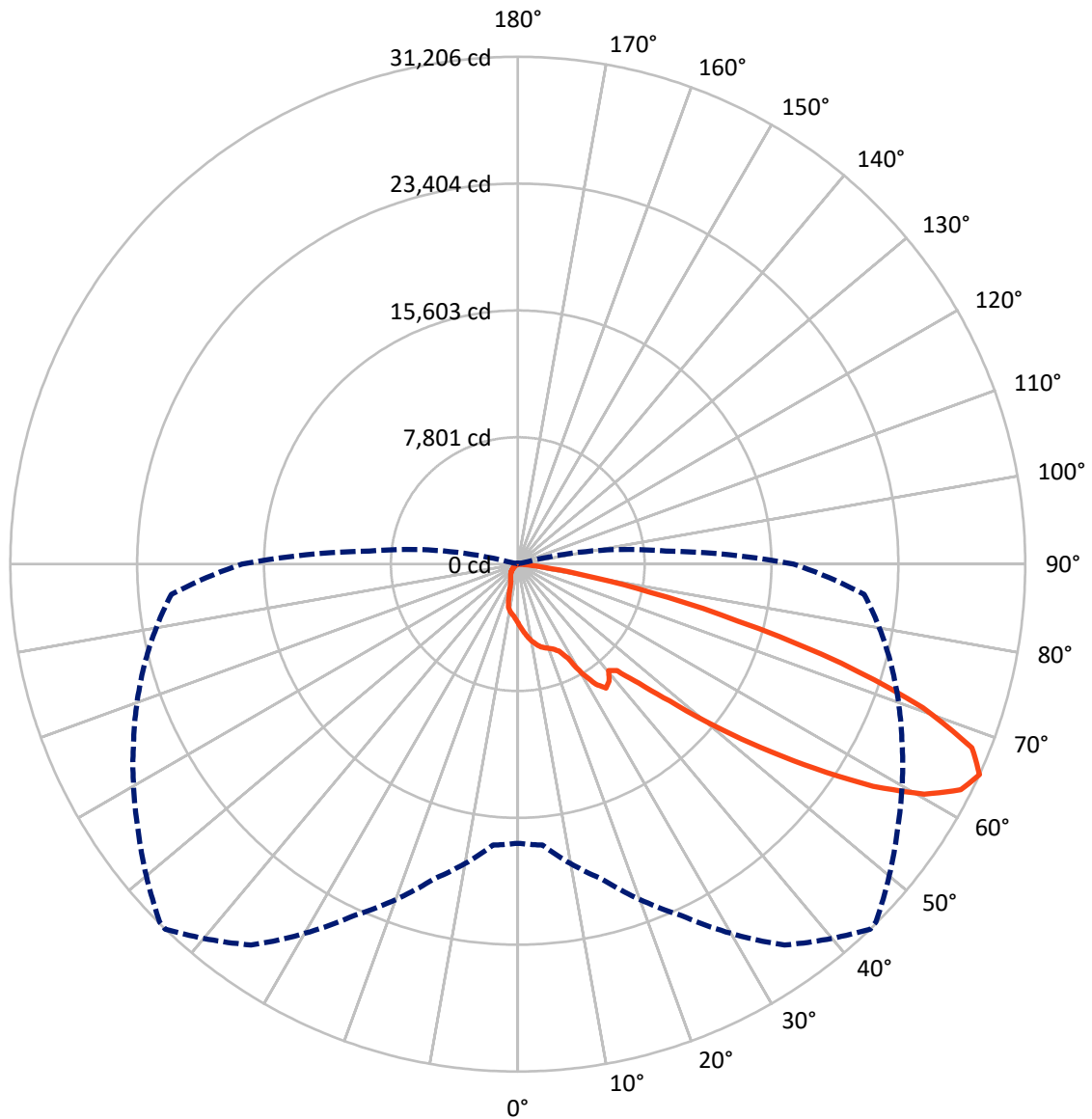
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3591.3	0.0	3591.3
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	35387.7	0.0	35387.7
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	38979.0	0.0	38979.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	360.8	0.9
10°-20°	1086.0	2.8
20°-30°	1841.4	4.7
30°-40°	3061.6	7.9
40°-50°	5345.6	13.7
50°-60°	10443.5	26.8
60°-70°	12116.9	31.1
70°-80°	4412.4	11.3
80°-90°	310.9	0.8
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°	38979.0	100.0
0°-180°	38979.0	100.0



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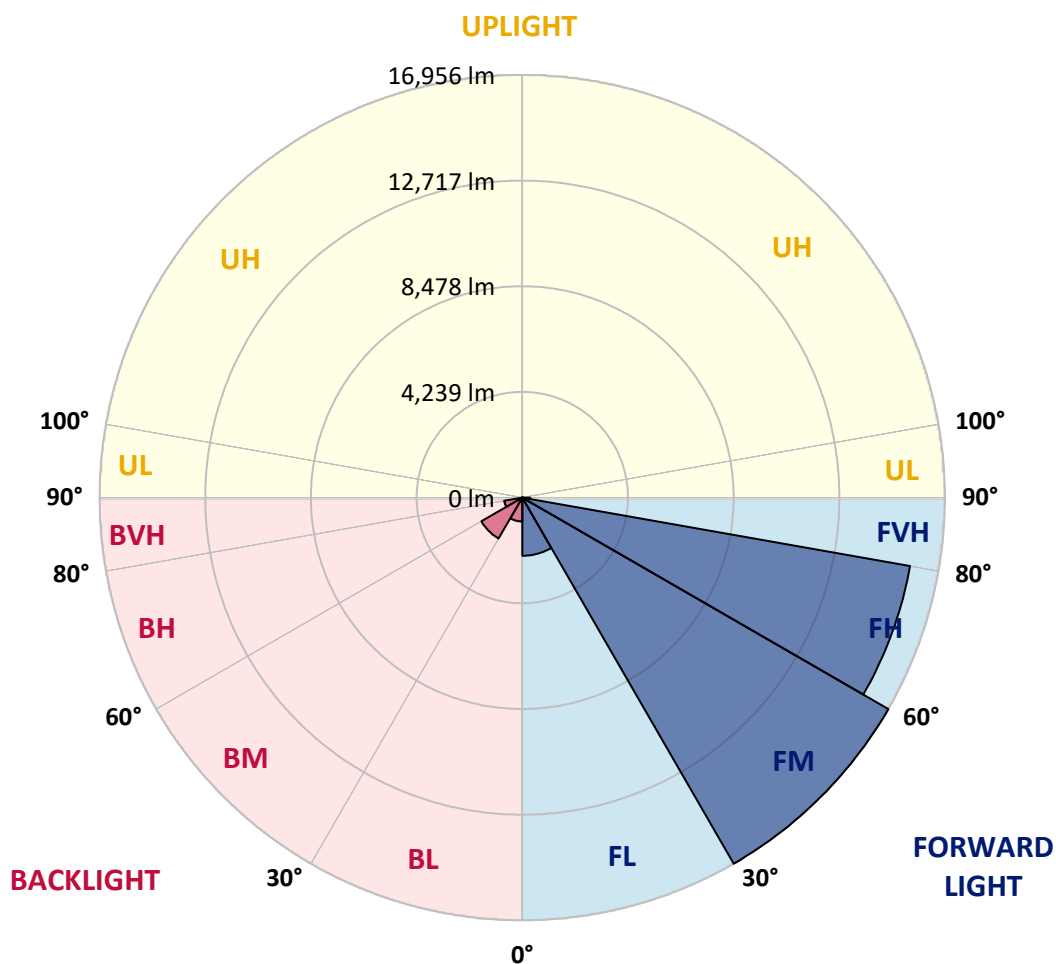
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2331.3	6.0			
FM (30°-60°)	16955.9	43.5			
FH (60°-80°)	15793.8	40.5			G5
FVH (80°-90°)	306.7	0.8			G3/500
BL (0°-30°)	956.9	2.5	B2/1000		
BM (30°-60°)	1894.8	4.9	B2/2500		
BH (60°-80°)	735.5	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3627.8	3627.8	3627.8	3627.8	3627.8	3627.8	3627.8	3627.8	3627.8	3627.8	3627.8
2.5°	4083.5	4065.6	4056.7	4009.0	3973.3	3928.6	3928.6	3872.0	3806.5	3735.0	3669.5
5°	4539.2	4509.4	4470.7	4429.0	4345.6	4226.5	4226.5	4107.3	3970.3	3848.2	3714.2
7.5°	4977.0	4950.2	4884.7	4804.3	4667.3	4542.2	4533.2	4360.5	4196.7	4012.0	3821.4
10°	5361.3	5340.4	5283.8	5128.9	4986.0	4822.2	4819.2	4625.6	4434.9	4208.6	3973.3
12.5°	5629.3	5632.3	5557.8	5408.9	5224.2	5069.4	5057.5	4866.8	4667.3	4423.0	4134.1
15°	5819.9	5819.9	5742.5	5575.7	5408.9	5271.9	5260.0	5093.2	4887.7	4622.6	4309.9
17.5°	5873.6	5891.4	5808.0	5659.1	5525.1	5405.9	5403.0	5263.0	5099.1	4843.0	4488.6
20°	5852.7	5870.6	5805.0	5688.9	5596.6	5528.0	5519.1	5462.5	5310.6	5069.4	4679.2
22.5°	5808.0	5825.9	5778.2	5709.7	5665.1	5685.9	5671.0	5718.7	5638.3	5346.4	4905.5
25°	5817.0	5834.8	5799.1	5760.4	5799.1	5927.2	5965.9	6171.4	6099.9	5697.8	5149.8
27.5°	6096.9	6132.7	6082.0	6099.9	6236.9	6534.8	6609.2	6963.7	6648.0	6144.6	5531.0
30°	6719.4	6695.6	6600.3	6686.7	7163.2	7794.7	7773.8	7717.2	7222.8	6659.9	5983.8
32.5°	7285.3	7264.5	7258.5	7630.9	8494.6	8801.4	8786.5	8238.5	7738.1	7249.6	6430.5
35°	7514.7	7434.3	7416.4	8318.9	9763.4	9358.4	9266.0	8452.9	8363.6	7893.0	6886.2
37.5°	8205.7	8149.1	7872.1	8432.1	9257.1	9123.1	9051.6	8822.2	9030.7	8461.8	7401.5
40°	9629.4	9471.6	9221.4	8673.3	8539.3	8595.9	8667.4	9295.8	9820.0	9239.2	8089.5
42.5°	11398.6	11362.9	10898.2	9876.6	8872.9	8950.3	9042.6	10284.7	10954.8	10409.8	9212.4
45°	13522.3	13572.9	12902.8	11696.5	10380.0	10445.5	10579.5	11744.1	12491.7	12229.6	10978.7
47.5°	15452.3	15413.6	15187.2	13933.3	12718.1	12572.1	12789.6	13617.6	14618.4	14660.1	13170.8
50°	17394.3	17599.8	17263.2	16771.8	15869.3	15562.5	15482.1	15887.2	17412.2	17212.6	15803.8
52.5°	20185.1	20292.3	19660.9	19535.8	19741.3	18746.5	18666.1	18764.4	20128.5	19443.5	17775.5
55°	21939.4	21876.9	21641.6	22618.5	23431.7	22189.6	22088.4	21692.2	22383.2	21019.1	19672.8
57.5°	22493.4	22582.8	23130.8	24897.1	26821.2	25766.8	25582.1	24456.3	24009.5	22487.5	21418.2
60°	22246.2	22410.0	23592.5	26219.5	28888.2	28730.4	28572.5	26681.2	25177.0	23714.6	22642.4
62.5°	20486.0	20715.3	22606.6	25984.2	29588.2	30574.0	30377.5	28069.1	25954.4	24310.3	22856.8
65°	17167.9	17337.7	20054.1	23848.6	28593.4	31205.5	31134.0	28504.0	26076.5	23765.3	21388.4
67.5°	12238.6	12816.4	15333.2	20098.7	25650.6	30127.3	30249.4	27982.8	24929.8	21409.3	17713.0
70°	7693.4	8086.6	9891.5	14389.0	20563.4	26431.0	26833.1	25597.0	21635.6	16688.4	11857.3
72.5°	3669.5	3961.4	5248.1	9108.2	14514.1	20795.7	21114.4	21013.1	16730.1	10514.0	6117.8
75°	1635.2	1745.4	2504.9	4649.4	9370.3	13978.0	14803.0	14940.0	10454.4	5143.8	2379.8
77.5°	834.0	837.0	1173.5	2251.7	4679.2	8339.7	8503.5	8983.1	5668.0	2266.6	828.0
80°	443.8	473.6	622.5	1063.3	2427.5	4107.3	4086.5	4491.5	2513.8	1111.0	277.0
82.5°	199.6	220.4	351.5	557.0	1185.4	1557.7	1679.9	1837.7	1078.2	708.9	122.1
85°	59.6	71.5	172.8	280.0	428.9	449.7	503.4	649.3	610.6	503.4	62.5
87.5°	8.9	8.9	71.5	77.4	62.5	80.4	83.4	92.3	196.6	184.7	32.8
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°	3627.8	3627.8	3627.8	3627.8	3627.8	3627.8	3627.8	3627.8	3627.8	3627.8	3627.8
2.5°	3633.7	3612.9	3538.4	3475.9	3422.3	3389.5	3350.8	3327.0	3315.0	3306.1	3309.1
5°	3648.6	3598.0	3469.9	3368.7	3291.2	3207.8	3151.2	3118.5	3103.6	3079.7	3079.7
7.5°	3732.0	3651.6	3472.9	3318.0	3184.0	3070.8	2963.6	2924.9	2898.1	2892.1	2886.1
10°	3851.2	3749.9	3505.7	3291.2	3100.6	2945.7	2793.8	2659.8	2555.5	2493.0	2484.0
12.5°	4000.1	3854.1	3556.3	3273.3	3029.1	2755.1	2353.0	2082.0	1900.3	1843.7	1852.6
15°	4137.1	3979.2	3606.9	3258.5	2898.1	2284.5	1828.8	1519.0	1426.7	1417.8	1420.7
17.5°	4300.9	4113.3	3666.5	3237.6	2537.7	1745.4	1358.2	1274.8	1292.7	1322.4	1319.5
20°	4470.7	4256.2	3738.0	3112.5	2025.4	1313.5	1200.3	1209.3	1236.1	1262.9	1268.8
22.5°	4652.4	4420.1	3821.4	2811.7	1545.8	1143.7	1137.8	1149.7	1176.5	1206.3	1212.2
25°	4902.6	4625.6	3883.9	2418.5	1170.5	1057.4	1069.3	1090.1	1113.9	1146.7	1152.7
27.5°	5224.2	4902.6	3916.7	1906.2	1012.7	979.9	982.9	1012.7	1042.5	1072.3	1072.3
30°	5641.2	5233.2	3851.2	1441.6	935.2	905.5	893.5	911.4	950.1	979.9	982.9
32.5°	6013.5	5545.9	3678.4	1102.0	878.7	837.0	807.2	810.1	825.0	842.9	845.9
35°	6385.9	5849.7	3383.5	926.3	819.1	771.4	726.7	702.9	691.0	682.1	691.0
37.5°	6862.4	6228.0	2990.4	842.9	768.4	708.9	646.3	595.7	554.0	527.2	533.1
40°	7476.0	6752.2	2525.7	789.3	720.8	649.3	565.9	500.4	428.9	405.1	393.2
42.5°	8488.7	7547.5	2037.3	744.6	673.1	586.8	482.5	393.2	327.6	303.8	309.8
45°	10088.1	8551.2	1569.7	697.0	625.5	518.3	405.1	309.8	256.1	244.2	250.2
47.5°	12208.8	9849.8	1209.3	643.4	565.9	443.8	318.7	244.2	211.5	208.5	205.5
50°	14204.3	11059.1	1009.7	583.8	494.4	369.3	262.1	205.5	184.7	181.7	181.7
52.5°	16009.3	11925.8	822.1	515.3	417.0	303.8	220.4	181.7	163.8	154.9	154.9
55°	17614.7	12491.7	667.2	431.9	327.6	241.3	190.6	163.8	143.0	131.1	128.1
57.5°	18826.9	12560.2	500.4	345.5	244.2	187.6	163.8	143.0	119.1	104.2	98.3
60°	19345.2	11967.5	369.3	262.1	181.7	148.9	131.1	116.2	89.4	74.5	71.5
62.5°	18824.0	10814.8	274.0	199.6	140.0	110.2	92.3	86.4	62.5	44.7	41.7
65°	16956.5	9149.9	217.4	151.9	104.2	80.4	59.6	56.6	38.7	20.8	17.9
67.5°	13584.8	7166.2	172.8	113.2	74.5	53.6	38.7	35.7	20.8	6.0	6.0
70°	8834.2	4580.9	140.0	83.4	47.7	35.7	23.8	17.9	11.9	3.0	0.0
72.5°	4369.4	2141.5	113.2	65.5	32.8	17.9	8.9	6.0	8.9	0.0	0.0
75°	1694.8	762.5	83.4	44.7	17.9	8.9	6.0	0.0	3.0	0.0	0.0
77.5°	562.9	253.2	50.6	23.8	11.9	6.0	0.0	0.0	0.0	0.0	0.0
80°	208.5	98.3	26.8	14.9	6.0	3.0	0.0	0.0	0.0	0.0	0.0
82.5°	83.4	38.7	17.9	11.9	6.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	41.7	23.8	11.9	8.9	6.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	29.8	17.9	11.9	8.9	6.0	3.0	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)