

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: P455580

Luminaire Tested: **GALN-SA6D-730-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455580
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-SA6D-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA 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: 30083 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

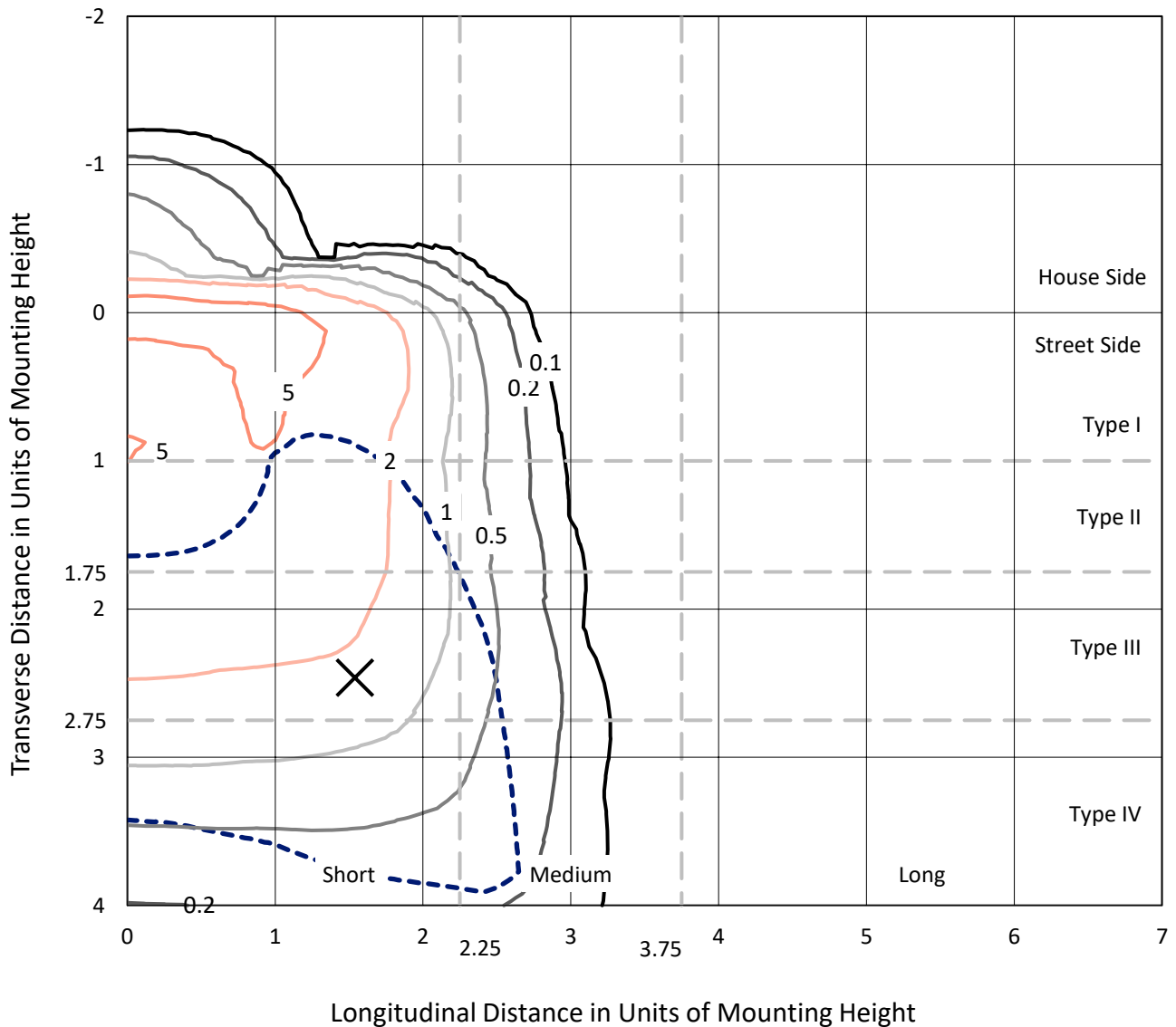
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

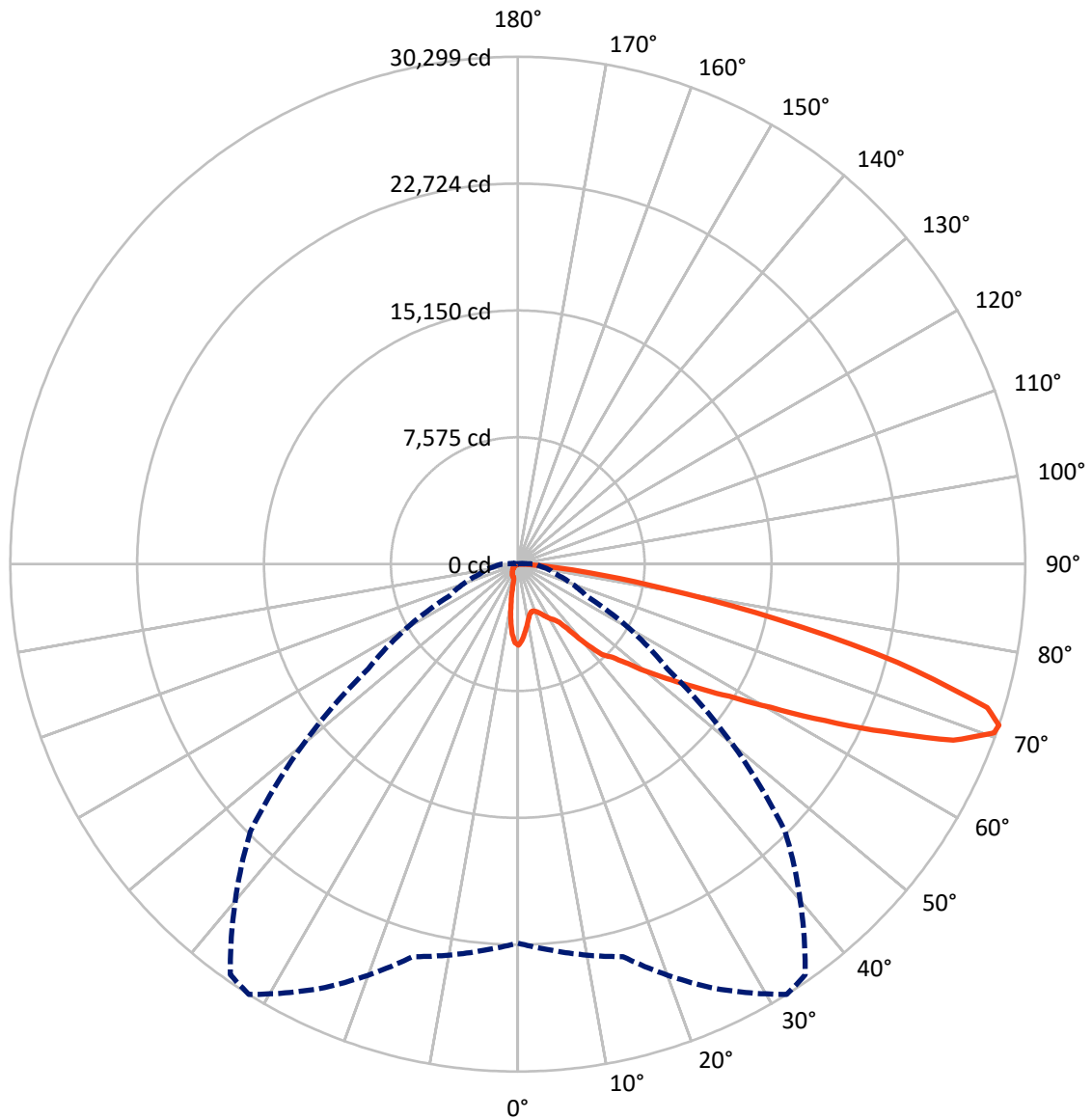
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	2519.8	0.0	2519.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	27563.2	0.0	27563.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	30083.0	0.0	30083.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	393.4	1.3
10°-20°	853.8	2.8
20°-30°	1328.2	4.4
30°-40°	2212.8	7.4
40°-50°	4116.1	13.7
50°-60°	6608.5	22.0
60°-70°	8888.8	29.5
70°-80°	5273.8	17.5
80°-90°	407.6	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°	30083.0	100.0
0°-180°	30083.0	100.0



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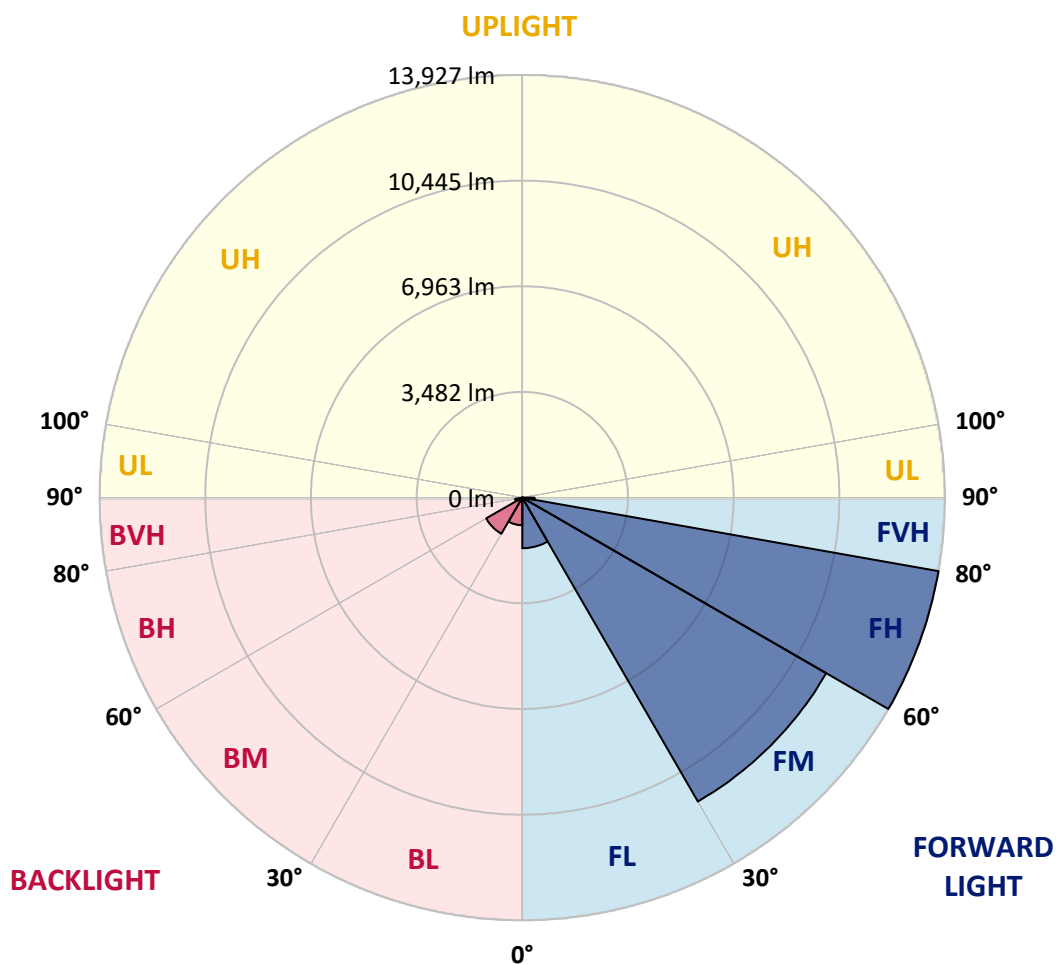
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1667.4	5.5			
FM	(30°-60°)	11562.8	38.4			
FH	(60°-80°)	13927.0	46.3			G5
FVH	(80°-90°)	406.1	1.3			G3/500
BL	(0°-30°)	907.9	3.0	B2/1000		
BM	(30°-60°)	1374.6	4.6	B2/2500		
BH	(60°-80°)	235.7	0.8	B1/500		G1/500
BVH	(80°-90°)	1.6	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°	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8
2.5°	4486.8	4533.0	4526.1	4542.2	4581.5	4597.7	4641.5	4690.0	4757.0	4803.2	4833.2
5°	4018.0	4052.7	4057.3	4138.1	4177.4	4221.3	4350.6	4491.4	4648.5	4773.2	4856.3
7.5°	3516.9	3535.4	3572.4	3678.6	3777.9	3821.8	4018.0	4262.8	4509.9	4743.1	4893.2
10°	3103.6	3124.4	3191.3	3304.5	3396.9	3454.6	3727.1	4034.2	4380.6	4727.0	4946.3
12.5°	2868.1	2879.6	2905.0	3006.6	3124.4	3186.7	3480.0	3831.0	4276.7	4733.9	5036.4
15°	2851.9	2847.3	2817.2	2858.8	2965.0	3029.7	3316.0	3692.4	4184.3	4757.0	5142.6
17.5°	2937.3	2925.8	2854.2	2854.2	2941.9	2995.1	3246.8	3618.5	4138.1	4810.1	5292.7
20°	3069.0	3050.5	2932.7	2923.5	3008.9	3064.3	3288.3	3623.2	4147.4	4909.4	5493.6
22.5°	3235.2	3214.4	3036.6	3041.2	3133.6	3189.0	3408.4	3706.3	4205.1	5031.8	5708.4
25°	3452.3	3429.2	3219.1	3209.8	3306.8	3355.3	3586.2	3854.1	4285.9	5184.2	5990.1
27.5°	3740.9	3692.4	3440.7	3426.9	3530.8	3593.1	3801.0	4052.7	4429.1	5394.3	6368.8
30°	3978.8	3925.7	3685.5	3648.6	3759.4	3807.9	4022.7	4320.6	4710.8	5761.5	6893.0
32.5°	4290.5	4212.0	3930.3	3833.3	3951.1	4013.4	4343.6	4819.3	5128.8	6149.5	7516.5
35°	4992.5	4944.0	4600.0	4260.5	4253.6	4332.1	4817.0	5322.8	5558.3	6754.5	8366.3
37.5°	5997.0	5962.4	5597.5	5142.6	5011.0	4974.1	5392.0	5877.0	6244.1	7585.8	9354.7
40°	7163.2	7082.4	6747.5	6361.9	6191.0	6082.5	6070.9	6701.4	7140.1	8715.0	10384.6
42.5°	7999.1	7851.3	7444.9	7417.2	7380.3	7267.1	6939.2	7906.8	8297.0	9929.6	11486.1
45°	8876.6	8652.6	8047.6	7943.7	7929.9	7922.9	8250.8	9333.9	9557.9	11245.9	12617.6
47.5°	9557.9	9380.1	8883.6	8837.4	8895.1	9052.1	9985.1	10848.7	10802.5	12419.0	13566.7
50°	10465.4	10331.5	9779.5	9867.3	10165.2	10421.5	11941.0	12499.8	11825.5	13342.7	14257.1
52.5°	11536.9	11289.8	10777.1	11015.0	11472.2	11899.4	14017.0	13945.4	12543.7	14037.7	14772.1
55°	12465.2	12289.7	12114.2	12361.3	13044.8	13578.2	15892.1	15028.4	13065.6	14596.6	14998.4
57.5°	14035.4	13993.9	13813.8	14065.5	14894.5	15448.7	17570.9	15869.0	13400.4	14887.5	14732.8
60°	16358.5	16291.5	15956.7	16277.7	17358.4	18229.0	19118.0	16624.1	13476.6	14774.4	13968.5
62.5°	19152.7	18924.1	18637.7	19111.1	20593.6	20977.0	20575.2	17072.1	13192.6	13873.8	12125.7
65°	21762.1	21526.6	21533.5	22531.1	24145.2	24406.1	22274.7	17005.1	12361.3	11617.7	8943.6
67.5°	23759.6	23720.3	24002.0	25948.7	28059.3	27879.2	23794.2	16002.9	9897.3	7530.4	4752.4
70°	23861.2	23937.4	24745.6	28031.6	30174.6	29888.2	23664.9	13007.8	6170.2	3463.8	1872.8
71°	22632.7	23145.3	24263.0	27967.0	30299.3	29927.5	22574.9	10894.9	4526.1	2415.4	1350.9
72.5°	19286.6	19556.8	21972.2	26320.5	29313.2	28518.9	19810.8	7636.6	2898.1	1477.9	775.9
75°	10622.4	11287.5	14714.4	20649.0	23445.5	22748.1	12910.9	3627.8	1445.6	808.2	321.0
77.5°	5057.2	4927.9	7179.4	12280.4	15896.7	15859.7	6505.1	1611.8	842.9	547.3	161.6
80°	1445.6	1625.7	2748.0	5837.7	8825.8	8922.8	2498.6	778.2	584.2	427.2	83.1
82.5°	436.4	445.7	1009.1	2581.7	4389.8	4138.1	937.5	397.2	420.3	339.5	48.5
85°	76.2	94.7	297.9	909.8	1674.2	1270.1	235.5	189.4	277.1	224.0	27.7
87.5°	4.6	6.9	99.3	103.9	147.8	85.4	41.6	27.7	60.0	60.0	16.2
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°	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8	4837.8
2.5°	4854.0	4867.8	4858.6	4837.8	4803.2	4761.6	4706.2	4660.0	4620.7	4600.0	4625.4
5°	4884.0	4902.5	4856.3	4752.4	4595.3	4424.5	4230.5	4080.4	3962.6	3925.7	3911.8
7.5°	4930.2	4941.7	4817.0	4586.1	4253.6	3849.5	3496.2	3198.3	2967.3	2898.1	2796.5
10°	4990.2	4983.3	4747.8	4318.2	3734.0	3126.7	2579.4	2173.0	1865.8	1755.0	1745.8
12.5°	5082.6	5045.6	4660.0	3953.4	3115.1	2320.8	1644.2	1286.2	1092.3	1027.6	1013.7
15°	5198.1	5110.3	4521.5	3526.2	2385.4	1498.7	1013.7	905.2	879.8	875.2	870.6
17.5°	5334.3	5195.7	4339.0	3002.0	1676.5	972.2	847.5	845.2	847.5	842.9	840.6
20°	5519.0	5285.8	4122.0	2380.8	1108.4	819.8	808.2	808.2	810.5	808.2	808.2
22.5°	5715.3	5392.0	3854.1	1817.4	835.9	778.2	775.9	780.5	785.1	782.8	782.8
25°	5957.8	5530.6	3500.8	1244.7	748.2	743.6	745.9	755.1	764.4	766.7	764.4
27.5°	6308.8	5701.5	3122.1	856.7	685.8	690.5	713.5	736.6	750.5	752.8	752.8
30°	6703.7	5890.8	2627.9	695.1	635.0	635.0	662.7	706.6	736.6	741.3	743.6
32.5°	7211.7	6110.2	2080.6	625.8	586.5	581.9	607.3	660.4	715.9	732.0	732.0
35°	7839.8	6368.8	1547.2	581.9	551.9	540.4	554.2	598.1	669.7	715.9	720.5
37.5°	8576.4	6613.6	1131.5	542.7	519.6	503.4	512.6	547.3	605.0	674.3	692.8
40°	9257.7	6830.7	845.2	510.3	487.2	475.7	482.6	498.8	547.3	611.9	623.5
42.5°	10001.2	6999.2	672.0	475.7	454.9	450.3	450.3	457.2	489.6	526.5	528.8
45°	10742.5	7059.3	563.4	434.1	420.3	424.9	422.6	418.0	431.8	427.2	427.2
47.5°	11271.3	6987.7	466.5	394.9	394.9	401.8	390.3	374.1	367.2	339.5	341.8
50°	11633.9	6726.8	383.3	348.7	367.2	376.4	353.3	327.9	302.5	272.5	265.6
52.5°	11784.0	6262.6	314.1	288.7	325.6	337.1	309.4	279.4	240.2	214.8	207.8
55°	11687.0	5689.9	260.9	235.5	274.8	288.7	260.9	226.3	182.4	154.7	150.1
57.5°	11259.8	5006.4	221.7	187.0	219.4	228.6	210.1	173.2	129.3	101.6	101.6
60°	10520.8	4299.8	180.1	147.8	164.0	177.8	159.3	124.7	87.8	62.3	57.7
62.5°	9022.1	3491.5	145.5	115.5	115.5	127.0	110.8	90.1	55.4	32.3	30.0
65°	6514.3	2394.7	115.5	85.4	83.1	83.1	69.3	60.0	32.3	13.9	9.2
67.5°	3540.0	1350.9	92.4	64.7	57.7	55.4	43.9	34.6	13.9	2.3	0.0
70°	1392.5	519.6	71.6	43.9	36.9	34.6	23.1	16.2	9.2	0.0	0.0
71°	944.5	357.9	62.3	36.9	30.0	25.4	18.5	13.9	6.9	0.0	0.0
72.5°	540.4	221.7	48.5	27.7	23.1	18.5	13.9	9.2	6.9	0.0	0.0
75°	235.5	113.2	30.0	20.8	16.2	11.5	9.2	6.9	2.3	0.0	0.0
77.5°	120.1	62.3	20.8	16.2	9.2	6.9	4.6	2.3	0.0	0.0	0.0
80°	67.0	32.3	13.9	9.2	6.9	4.6	2.3	2.3	0.0	0.0	0.0
82.5°	36.9	18.5	6.9	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.1	11.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.5	4.6	0.0	0.0	0.0	0.0	2.3	2.3	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)