

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: P459321

Luminaire Tested: **GALN-SA7D-735-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459321
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-SA7D-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 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: 36144 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

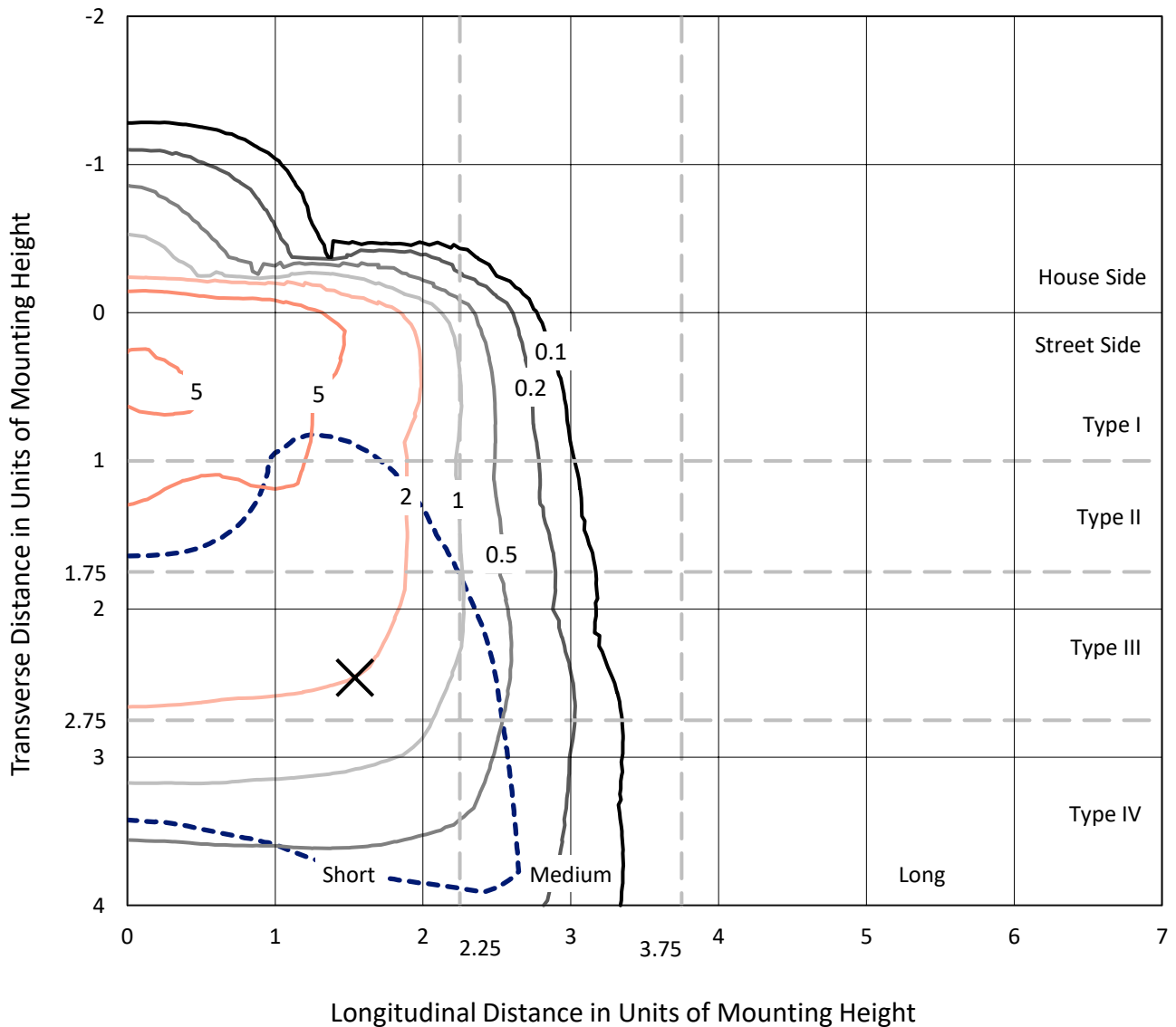
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

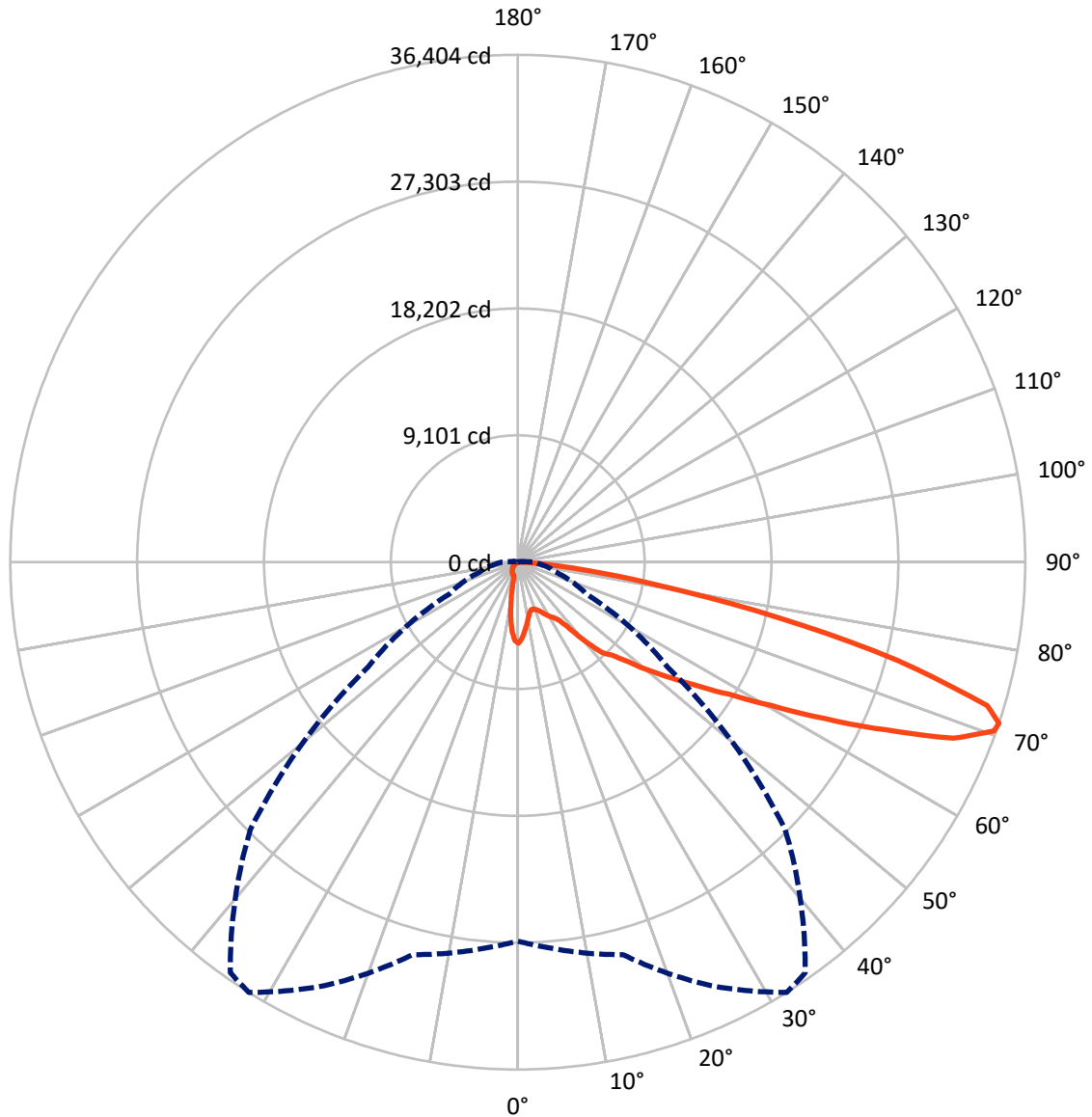
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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	3027.4	0.0	3027.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	33116.6	0.0	33116.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	36144.0	0.0	36144.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.6	1.3
10°-20°	1025.8	2.8
20°-30°	1595.8	4.4
30°-40°	2658.6	7.4
40°-50°	4945.4	13.7
50°-60°	7940.0	22.0
60°-70°	10679.7	29.5
70°-80°	6336.4	17.5
80°-90°	489.8	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°	36144.0	100.0
0°-180°	36144.0	100.0



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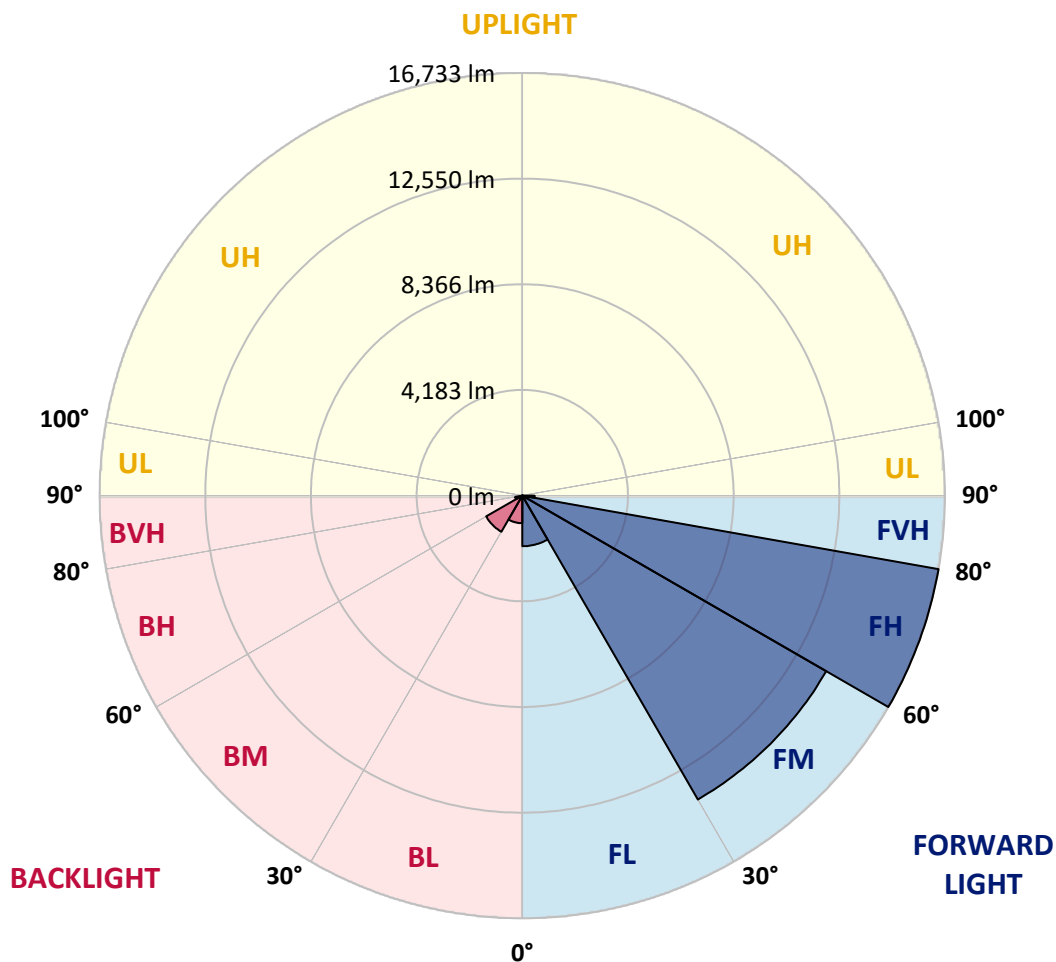
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2003.3	5.5			
FM	(30°-60°)	13892.4	38.4			
FH	(60°-80°)	16732.9	46.3			G5
FVH	(80°-90°)	487.9	1.3			G3/500
BL	(0°-30°)	1090.9	3.0	B3/2500		
BM	(30°-60°)	1651.5	4.6	B2/2500		
BH	(60°-80°)	283.1	0.8	B1/500		G1/500
BVH	(80°-90°)	1.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	5812.5	5812.5	5812.5	5812.5	5812.5	5812.5	5812.5	5812.5	5812.5	5812.5	5812.5
2.5°	5390.8	5446.3	5438.0	5457.4	5504.6	5524.0	5576.7	5635.0	5715.4	5770.9	5807.0
5°	4827.6	4869.2	4874.7	4971.9	5019.0	5071.7	5227.1	5396.3	5585.0	5734.8	5834.7
7.5°	4225.5	4247.7	4292.1	4419.7	4539.0	4591.8	4827.6	5121.7	5418.5	5698.8	5879.1
10°	3728.9	3753.9	3834.3	3970.3	4081.2	4150.6	4478.0	4847.0	5263.2	5679.3	5942.9
12.5°	3445.9	3459.8	3490.3	3612.4	3753.9	3828.8	4181.1	4602.8	5138.3	5687.7	6051.1
15°	3426.5	3420.9	3384.9	3434.8	3562.4	3640.1	3984.1	4436.4	5027.3	5715.4	6178.8
17.5°	3529.1	3515.3	3429.2	3429.2	3534.7	3598.5	3900.9	4347.6	4971.9	5779.2	6359.1
20°	3687.3	3665.1	3523.6	3512.5	3615.1	3681.7	3950.8	4353.1	4983.0	5898.5	6600.5
22.5°	3887.0	3862.1	3648.4	3654.0	3765.0	3831.5	4095.1	4453.0	5052.3	6045.6	6858.5
25°	4147.8	4120.1	3867.6	3856.5	3973.0	4031.3	4308.8	4630.6	5149.4	6228.7	7197.0
27.5°	4494.6	4436.4	4134.0	4117.3	4242.2	4317.1	4566.8	4869.2	5321.4	6481.2	7652.0
30°	4780.4	4716.6	4428.1	4383.7	4516.8	4575.1	4833.1	5191.0	5659.9	6922.3	8281.8
32.5°	5155.0	5060.6	4722.2	4605.6	4747.1	4822.0	5218.8	5790.3	6162.1	7388.4	9030.9
35°	5998.4	5940.1	5526.7	5118.9	5110.6	5204.9	5787.5	6395.2	6678.2	8115.3	10051.9
37.5°	7205.3	7163.7	6725.3	6178.8	6020.6	5976.2	6478.4	7061.0	7502.2	9114.1	11239.4
40°	8606.4	8509.3	8107.0	7643.7	7438.4	7308.0	7294.1	8051.5	8578.7	10470.9	12476.8
42.5°	9610.8	9433.2	8944.9	8911.6	8867.2	8731.3	8337.3	9499.8	9968.7	11930.2	13800.2
45°	10665.1	10395.9	9669.0	9544.2	9527.5	9519.2	9913.2	11214.4	11483.5	13511.7	15159.7
47.5°	11483.5	11269.9	10673.4	10617.9	10687.3	10875.9	11996.8	13034.5	12979.0	14921.1	16300.0
50°	12573.9	12413.0	11749.9	11855.3	12213.2	12521.2	14346.8	15018.2	14208.1	16030.9	17129.6
52.5°	13861.3	13564.4	12948.5	13234.2	13783.6	14296.9	16841.0	16755.0	15070.9	16866.0	17748.3
55°	14976.6	14765.7	14554.9	14851.8	15673.0	16313.9	19093.9	18056.3	15698.0	17537.4	18020.2
57.5°	16863.2	16813.3	16596.9	16899.3	17895.3	18561.2	21111.0	19066.2	16100.3	17887.0	17701.1
60°	19654.4	19573.9	19171.6	19557.3	20855.7	21901.7	22969.9	19973.4	16191.8	17751.1	16782.8
62.5°	23011.5	22736.8	22392.8	22961.5	24742.7	25203.3	24720.5	20511.7	15850.6	16669.0	14568.8
65°	26146.6	25863.6	25872.0	27070.5	29009.9	29323.4	26762.6	20431.2	14851.8	13958.4	10745.5
67.5°	28546.5	28499.4	28837.9	31176.7	33712.6	33496.2	28588.2	19227.1	11891.4	9047.6	5709.9
70°	28668.6	28760.2	29731.2	33679.3	36254.0	35910.0	28432.8	15628.6	7413.4	4161.7	2250.1
71°	27192.6	27808.5	29151.4	33601.6	36403.9	35957.2	27123.2	13090.0	5438.0	2902.1	1623.1
72.5°	23172.4	23497.0	26399.1	31623.4	35219.2	34264.7	23802.2	9175.2	3482.0	1775.7	932.2
75°	12762.6	13561.6	17678.9	24809.3	28169.2	27331.3	15512.1	4358.7	1736.8	971.1	385.7
77.5°	6076.1	5920.7	8625.8	14754.6	19099.5	19055.1	7815.7	1936.6	1012.7	657.5	194.2
80°	1736.8	1953.2	3301.6	7013.9	10604.0	10720.6	3002.0	935.0	701.9	513.3	99.9
82.5°	524.4	535.5	1212.4	3101.9	5274.3	4971.9	1126.4	477.2	505.0	407.8	58.3
85°	91.6	113.8	357.9	1093.1	2011.5	1526.0	283.0	227.5	332.9	269.1	33.3
87.5°	5.5	8.3	119.3	124.9	177.6	102.7	49.9	33.3	72.1	72.1	19.4
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°	5812.5	5812.5	5812.5	5812.5	5812.5	5812.5	5812.5	5812.5	5812.5	5812.5	5812.5
2.5°	5831.9	5848.6	5837.5	5812.5	5770.9	5721.0	5654.4	5598.9	5551.7	5526.7	5557.3
5°	5868.0	5890.2	5834.7	5709.9	5521.2	5315.9	5082.8	4902.5	4761.0	4716.6	4700.0
7.5°	5923.5	5937.4	5787.5	5510.1	5110.6	4625.0	4200.6	3842.6	3565.2	3482.0	3359.9
10°	5995.6	5987.3	5704.3	5188.3	4486.3	3756.6	3099.1	2610.8	2241.8	2108.6	2097.5
12.5°	6106.6	6062.2	5598.9	4749.9	3742.8	2788.3	1975.4	1545.4	1312.3	1234.6	1218.0
15°	6245.3	6139.9	5432.4	4236.6	2866.0	1800.6	1218.0	1087.6	1057.1	1051.5	1046.0
17.5°	6409.0	6242.6	5213.2	3606.8	2014.3	1168.1	1018.2	1015.5	1018.2	1012.7	1009.9
20°	6631.0	6350.8	4952.4	2860.5	1331.7	984.9	971.1	971.1	973.8	971.1	971.1
22.5°	6866.8	6478.4	4630.6	2183.5	1004.4	935.0	932.2	937.8	943.3	940.5	940.5
25°	7158.1	6644.9	4206.1	1495.4	898.9	893.4	896.2	907.3	918.4	921.1	918.4
27.5°	7579.9	6850.2	3751.1	1029.3	824.0	829.6	857.3	885.1	901.7	904.5	904.5
30°	8054.3	7077.7	3157.3	835.1	763.0	763.0	796.3	849.0	885.1	890.6	893.4
32.5°	8664.7	7341.3	2499.8	751.9	704.7	699.2	729.7	793.5	860.1	879.5	879.5
35°	9419.3	7652.0	1858.9	699.2	663.1	649.2	665.9	718.6	804.6	860.1	865.6
37.5°	10304.4	7946.1	1359.5	652.0	624.3	604.8	615.9	657.5	726.9	810.1	832.3
40°	11122.9	8206.9	1015.5	613.2	585.4	571.5	579.9	599.3	657.5	735.2	749.1
42.5°	12016.2	8409.4	807.4	571.5	546.6	541.0	541.0	549.3	588.2	632.6	635.4
45°	12906.8	8481.6	677.0	521.6	505.0	510.5	507.7	502.2	518.8	513.3	513.3
47.5°	13542.2	8395.6	560.4	474.4	474.4	482.8	468.9	449.5	441.1	407.8	410.6
50°	13977.8	8082.0	460.6	418.9	441.1	452.2	424.5	394.0	363.5	327.4	319.1
52.5°	14158.1	7524.4	377.3	346.8	391.2	405.1	371.8	335.7	288.5	258.0	249.7
55°	14041.6	6836.3	313.5	283.0	330.2	346.8	313.5	271.9	219.2	185.9	180.3
57.5°	13528.3	6015.1	266.3	224.7	263.6	274.7	252.5	208.1	155.4	122.1	122.1
60°	12640.5	5166.1	216.4	177.6	197.0	213.6	191.4	149.8	105.4	74.9	69.4
62.5°	10839.9	4195.0	174.8	138.7	138.7	152.6	133.2	108.2	66.6	38.8	36.1
65°	7826.8	2877.1	138.7	102.7	99.9	99.9	83.2	72.1	38.8	16.6	11.1
67.5°	4253.3	1623.1	111.0	77.7	69.4	66.6	52.7	41.6	16.6	2.8	0.0
70°	1673.0	624.3	86.0	52.7	44.4	41.6	27.7	19.4	11.1	0.0	0.0
71°	1134.8	430.0	74.9	44.4	36.1	30.5	22.2	16.6	8.3	0.0	0.0
72.5°	649.2	266.3	58.3	33.3	27.7	22.2	16.6	11.1	8.3	0.0	0.0
75°	283.0	135.9	36.1	25.0	19.4	13.9	11.1	8.3	2.8	0.0	0.0
77.5°	144.3	74.9	25.0	19.4	11.1	8.3	5.5	2.8	0.0	0.0	0.0
80°	80.5	38.8	16.6	11.1	8.3	5.5	2.8	2.8	0.0	0.0	0.0
82.5°	44.4	22.2	8.3	5.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.7	13.9	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.9	5.5	0.0	0.0	0.0	0.0	2.8	2.8	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)