

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: P456740

Luminaire Tested: **GALN-SA8A-730-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456740
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-SA8A-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA 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: 24217 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

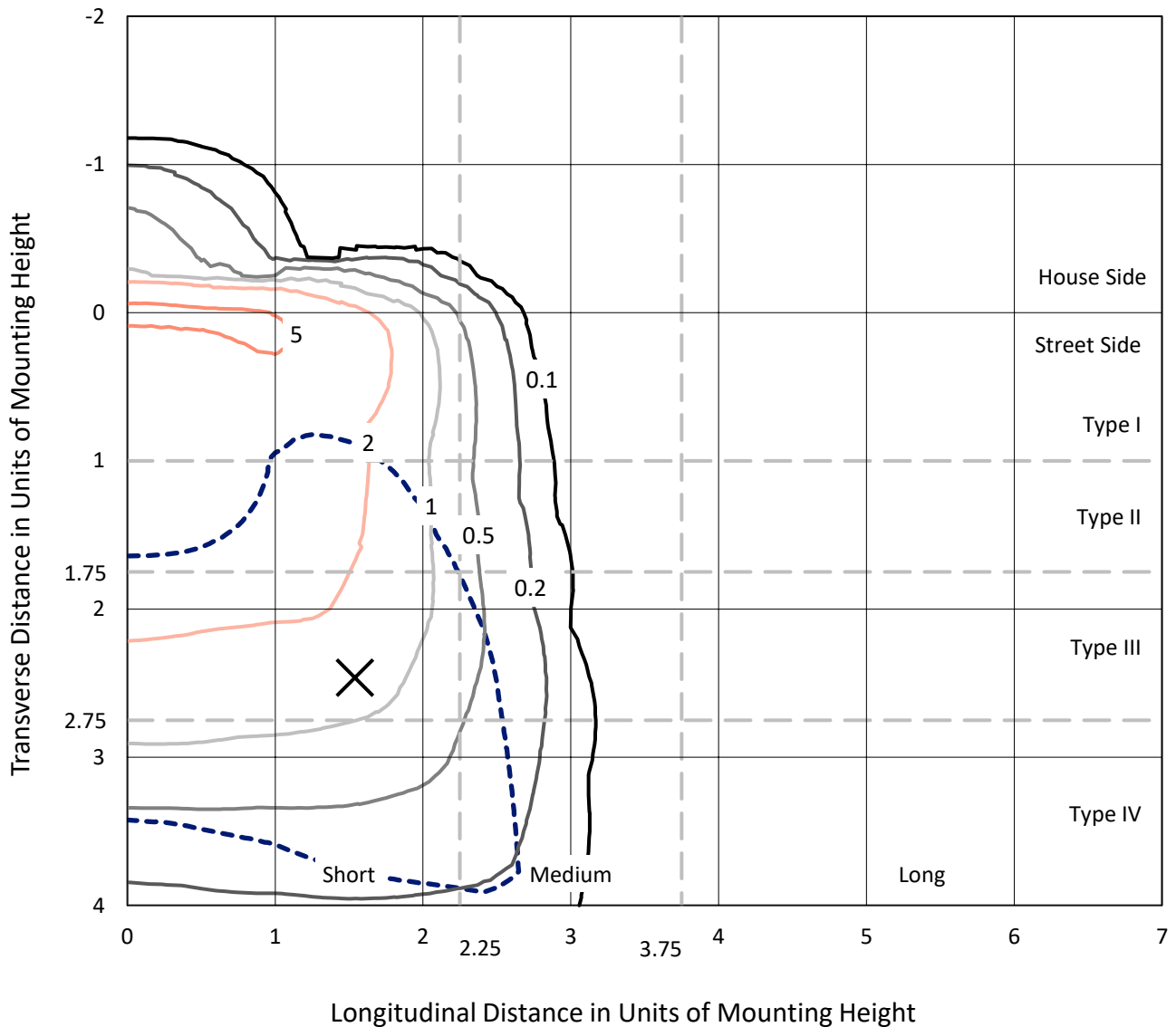
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

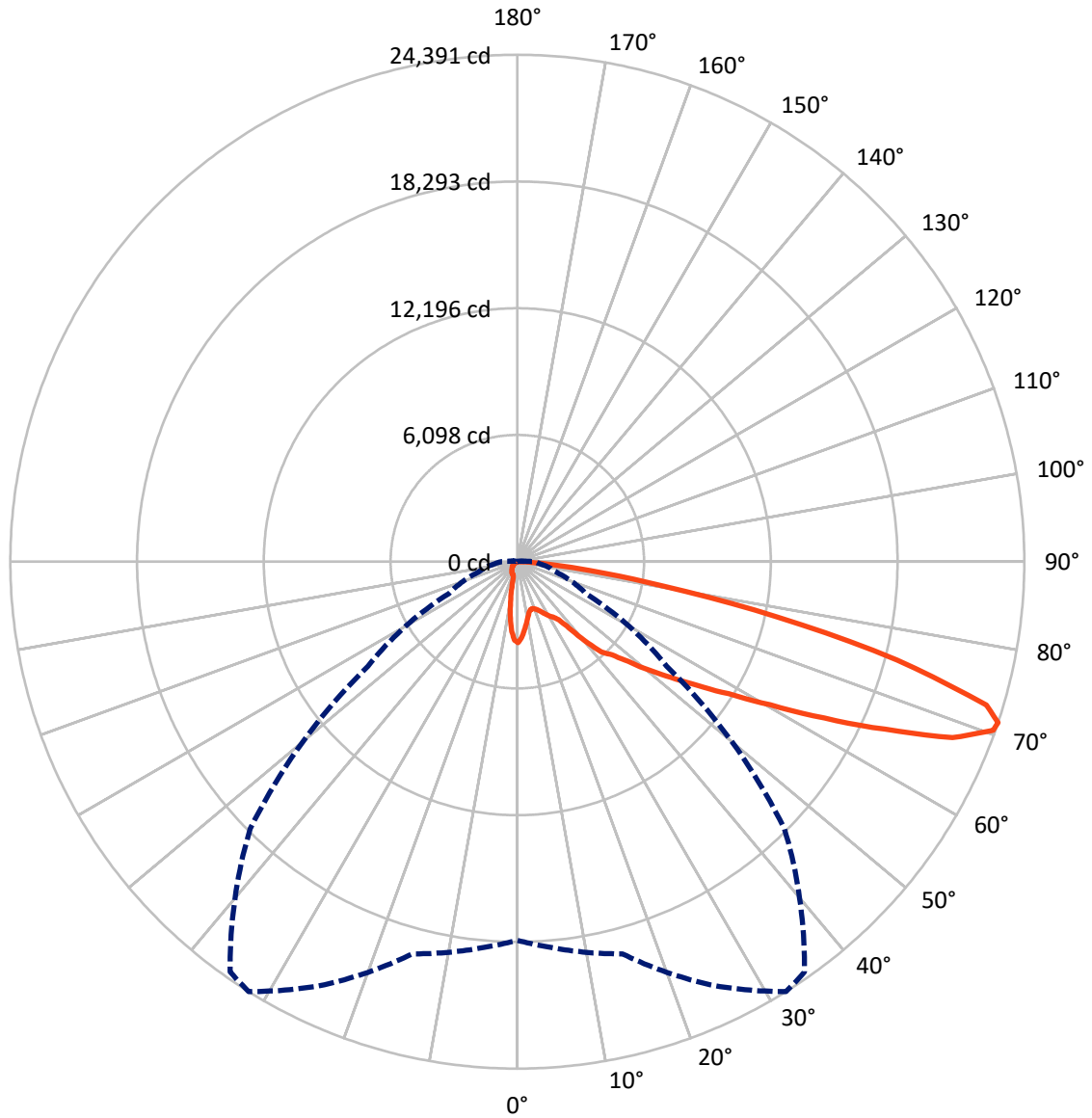
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	2028.4	0.0	2028.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	22188.6	0.0	22188.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	24217.0	0.0	24217.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.7	1.3
10°-20°	687.3	2.8
20°-30°	1069.2	4.4
30°-40°	1781.3	7.4
40°-50°	3313.5	13.7
50°-60°	5319.9	22.0
60°-70°	7155.5	29.5
70°-80°	4245.5	17.5
80°-90°	328.2	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°	24217.0	100.0
0°-180°	24217.0	100.0



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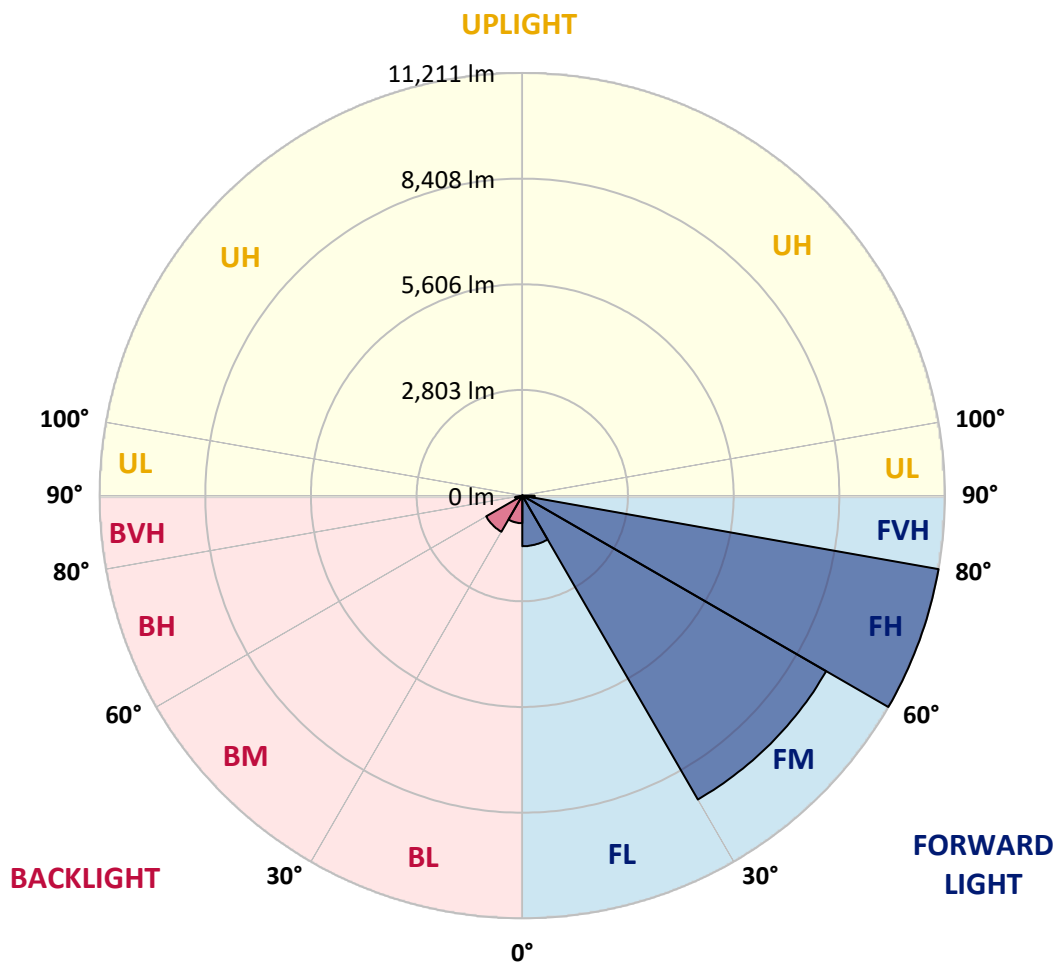
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1342.3	5.5			
FM	(30°-60°)	9308.1	38.4			
FH	(60°-80°)	11211.3	46.3			G4/12000
FVH	(80°-90°)	326.9	1.3			G3/500
BL	(0°-30°)	730.9	3.0	B2/1000		
BM	(30°-60°)	1106.6	4.6	B2/2500		
BH	(60°-80°)	189.7	0.8	B1/500		G1/500
BVH	(80°-90°)	1.3	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	3894.5	3894.5	3894.5	3894.5	3894.5	3894.5	3894.5	3894.5	3894.5	3894.5	3894.5
2.5°	3611.9	3649.1	3643.5	3656.5	3688.1	3701.1	3736.5	3775.5	3829.4	3866.6	3890.8
5°	3234.5	3262.4	3266.2	3331.2	3362.8	3398.1	3502.2	3615.6	3742.0	3842.4	3909.3
7.5°	2831.2	2846.0	2875.8	2961.3	3041.2	3076.5	3234.5	3431.6	3630.5	3818.3	3939.1
10°	2498.4	2515.1	2569.1	2660.1	2734.5	2781.0	3000.3	3247.6	3526.4	3805.2	3981.8
12.5°	2308.8	2318.1	2338.5	2420.3	2515.1	2565.3	2801.4	3084.0	3442.8	3810.8	4054.3
15°	2295.8	2292.1	2267.9	2301.4	2386.9	2438.9	2669.4	2972.4	3368.4	3829.4	4139.9
17.5°	2364.6	2355.3	2297.6	2297.6	2368.3	2411.0	2613.7	2913.0	3331.2	3872.2	4260.7
20°	2470.5	2455.7	2360.8	2353.4	2422.2	2466.8	2647.1	2916.7	3338.6	3952.1	4422.4
22.5°	2604.4	2587.6	2444.5	2448.2	2522.6	2567.2	2743.8	2983.6	3385.1	4050.6	4595.3
25°	2779.1	2760.5	2591.4	2583.9	2662.0	2701.0	2886.9	3102.6	3450.2	4173.3	4822.1
27.5°	3011.5	2972.4	2769.8	2758.7	2842.3	2892.5	3059.8	3262.4	3565.4	4342.5	5126.9
30°	3202.9	3160.2	2966.9	2937.1	3026.3	3065.4	3238.3	3478.1	3792.2	4638.0	5548.9
32.5°	3453.9	3390.7	3163.9	3085.8	3180.6	3230.8	3496.7	3879.6	4128.7	4950.3	6050.8
35°	4019.0	3980.0	3703.0	3429.7	3424.2	3487.4	3877.7	4284.8	4474.5	5437.4	6734.9
37.5°	4827.7	4799.8	4506.1	4139.9	4033.9	4004.1	4340.6	4731.0	5026.6	6106.6	7530.6
40°	5766.4	5701.4	5431.8	5121.4	4983.8	4896.4	4887.1	5394.6	5747.8	7015.6	8359.6
42.5°	6439.4	6320.4	5993.2	5970.9	5941.2	5850.1	5586.1	6365.0	6679.2	7993.4	9246.3
45°	7145.8	6965.4	6478.4	6394.7	6383.6	6378.0	6642.0	7513.8	7694.1	9053.0	10157.2
47.5°	7694.1	7551.0	7151.3	7114.1	7160.6	7287.0	8038.0	8733.3	8696.1	9997.4	10921.3
50°	8424.7	8316.9	7872.6	7943.2	8183.0	8389.4	9612.6	10062.4	9519.6	10740.9	11477.1
52.5°	9287.2	9088.3	8675.7	8867.1	9235.2	9579.1	11283.7	11226.1	10097.7	11300.5	11891.6
55°	10034.5	9893.3	9752.0	9950.9	10501.1	10930.5	12793.2	12098.0	10517.9	11750.3	12073.8
57.5°	11298.6	11265.2	11120.2	11322.8	11990.1	12436.3	14144.6	12774.6	10787.4	11984.6	11860.0
60°	13168.7	13114.8	12845.3	13103.6	13973.6	14674.4	15390.1	13382.5	10848.8	11893.5	11244.7
62.5°	15418.0	15234.0	15003.5	15384.6	16578.0	16886.6	16563.1	13743.1	10620.1	11168.5	9761.3
65°	17518.6	17329.0	17334.6	18137.6	19437.0	19647.1	17931.3	13689.2	9950.9	9352.3	7199.7
67.5°	19126.6	19095.0	19321.8	20888.9	22587.9	22442.9	19154.5	12882.4	7967.4	6062.0	3825.7
70°	19208.4	19269.7	19920.4	22565.6	24290.7	24060.2	19050.4	10471.4	4967.1	2788.4	1507.6
71°	18219.4	18632.1	19531.8	22513.6	24391.1	24091.8	18173.0	8770.5	3643.5	1944.4	1087.5
72.5°	15525.8	15743.3	17687.8	21188.2	23597.3	22957.9	15947.8	6147.5	2333.0	1189.7	624.6
75°	8551.1	9086.5	11845.1	16622.6	18873.8	18312.4	10393.3	2920.4	1163.7	650.6	258.4
77.5°	4071.1	3967.0	5779.4	9885.8	12796.9	12767.2	5236.6	1297.5	678.5	440.6	130.1
80°	1163.7	1308.7	2212.1	4699.4	7104.9	7182.9	2011.4	626.5	470.3	343.9	66.9
82.5°	351.3	358.8	812.4	2078.3	3533.8	3331.2	754.7	319.7	338.3	273.3	39.0
85°	61.3	76.2	239.8	732.4	1347.7	1022.4	189.6	152.4	223.1	180.3	22.3
87.5°	3.7	5.6	79.9	83.7	119.0	68.8	33.5	22.3	48.3	48.3	13.0
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°	3894.5	3894.5	3894.5	3894.5	3894.5	3894.5	3894.5	3894.5	3894.5	3894.5	3894.5
2.5°	3907.5	3918.6	3911.2	3894.5	3866.6	3833.1	3788.5	3751.3	3719.7	3703.0	3723.4
5°	3931.7	3946.5	3909.3	3825.7	3699.3	3561.7	3405.6	3284.7	3189.9	3160.2	3149.0
7.5°	3968.8	3978.1	3877.7	3691.8	3424.2	3098.8	2814.4	2574.6	2388.7	2333.0	2251.2
10°	4017.2	4011.6	3822.0	3476.2	3005.9	2517.0	2076.4	1749.3	1502.0	1412.8	1405.4
12.5°	4091.5	4061.8	3751.3	3182.5	2507.7	1868.2	1323.6	1035.4	879.3	827.2	816.1
15°	4184.5	4113.8	3639.8	2838.6	1920.3	1206.4	816.1	728.7	708.3	704.5	700.8
17.5°	4294.1	4182.6	3492.9	2416.6	1349.6	782.6	682.2	680.4	682.2	678.5	676.7
20°	4442.9	4255.1	3318.2	1916.6	892.3	659.9	650.6	650.6	652.5	650.6	650.6
22.5°	4600.9	4340.6	3102.6	1463.0	672.9	626.5	624.6	628.3	632.0	630.2	630.2
25°	4796.1	4452.2	2818.1	1002.0	602.3	598.6	600.4	607.9	615.3	617.2	615.3
27.5°	5078.6	4589.7	2513.3	689.7	552.1	555.8	574.4	593.0	604.2	606.0	606.0
30°	5396.5	4742.1	2115.5	559.5	511.2	511.2	533.5	568.8	593.0	596.7	598.6
32.5°	5805.5	4918.7	1674.9	503.8	472.2	468.5	488.9	531.7	576.3	589.3	589.3
35°	6311.1	5126.9	1245.5	468.5	444.3	435.0	446.1	481.5	539.1	576.3	580.0
37.5°	6904.1	5324.0	910.9	436.9	418.3	405.2	412.7	440.6	487.0	542.8	557.7
40°	7452.5	5498.7	680.4	410.8	392.2	382.9	388.5	401.5	440.6	492.6	501.9
42.5°	8051.1	5634.4	541.0	382.9	366.2	362.5	362.5	368.1	394.1	423.8	425.7
45°	8647.8	5682.8	453.6	349.5	338.3	342.0	340.2	336.5	347.6	343.9	343.9
47.5°	9073.5	5625.1	375.5	317.9	317.9	323.5	314.2	301.1	295.6	273.3	275.1
50°	9365.3	5415.1	308.6	280.7	295.6	303.0	284.4	264.0	243.5	219.4	213.8
52.5°	9486.2	5041.4	252.8	232.4	262.1	271.4	249.1	224.9	193.3	172.9	167.3
55°	9408.1	4580.4	210.1	189.6	221.2	232.4	210.1	182.2	146.9	124.5	120.8
57.5°	9064.2	4030.2	178.5	150.6	176.6	184.0	169.2	139.4	104.1	81.8	81.8
60°	8469.3	3461.3	145.0	119.0	132.0	143.1	128.3	100.4	70.6	50.2	46.5
62.5°	7262.9	2810.7	117.1	92.9	92.9	102.2	89.2	72.5	44.6	26.0	24.2
65°	5244.1	1927.7	92.9	68.8	66.9	66.9	55.8	48.3	26.0	11.2	7.4
67.5°	2849.7	1087.5	74.4	52.1	46.5	44.6	35.3	27.9	11.2	1.9	0.0
70°	1120.9	418.3	57.6	35.3	29.7	27.9	18.6	13.0	7.4	0.0	0.0
71°	760.3	288.1	50.2	29.7	24.2	20.4	14.9	11.2	5.6	0.0	0.0
72.5°	435.0	178.5	39.0	22.3	18.6	14.9	11.2	7.4	5.6	0.0	0.0
75°	189.6	91.1	24.2	16.7	13.0	9.3	7.4	5.6	1.9	0.0	0.0
77.5°	96.7	50.2	16.7	13.0	7.4	5.6	3.7	1.9	0.0	0.0	0.0
80°	53.9	26.0	11.2	7.4	5.6	3.7	1.9	1.9	0.0	0.0	0.0
82.5°	29.7	14.9	5.6	3.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.6	9.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.3	3.7	0.0	0.0	0.0	0.0	1.9	1.9	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)