

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: P456015

Luminaire Tested: **GALN-SA7B-727-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456015
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-SA7B-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA 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: 23868 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: B2 - U0 - G4

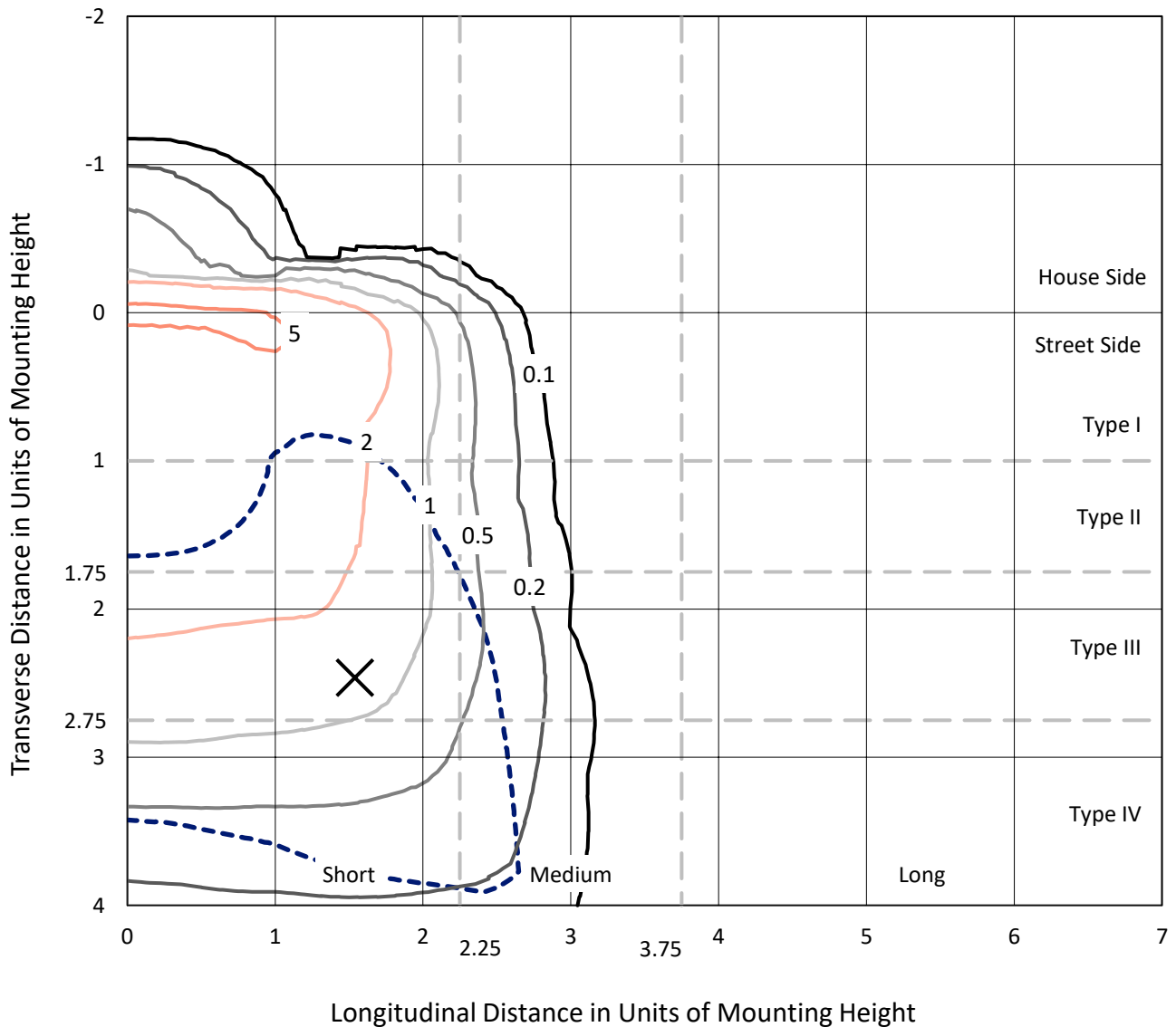
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

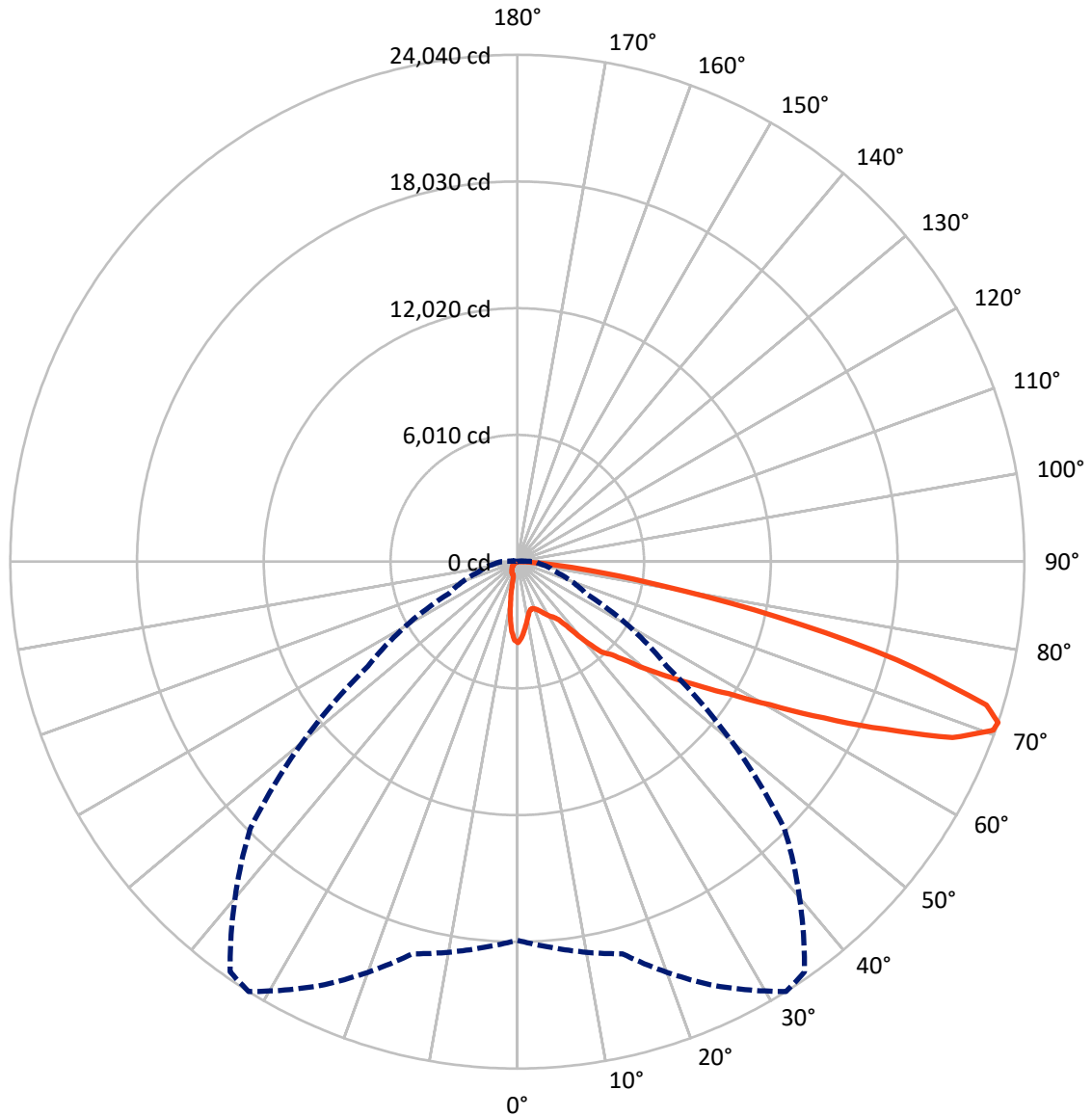
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	1999.2	0.0	1999.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	21868.8	0.0	21868.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	23868.0	0.0	23868.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.1	1.3
10°-20°	677.4	2.8
20°-30°	1053.8	4.4
30°-40°	1755.6	7.4
40°-50°	3265.7	13.7
50°-60°	5243.2	22.0
60°-70°	7052.4	29.5
70°-80°	4184.3	17.5
80°-90°	323.4	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°	23868.0	100.0
0°-180°	23868.0	100.0

Coefficient of Utilization



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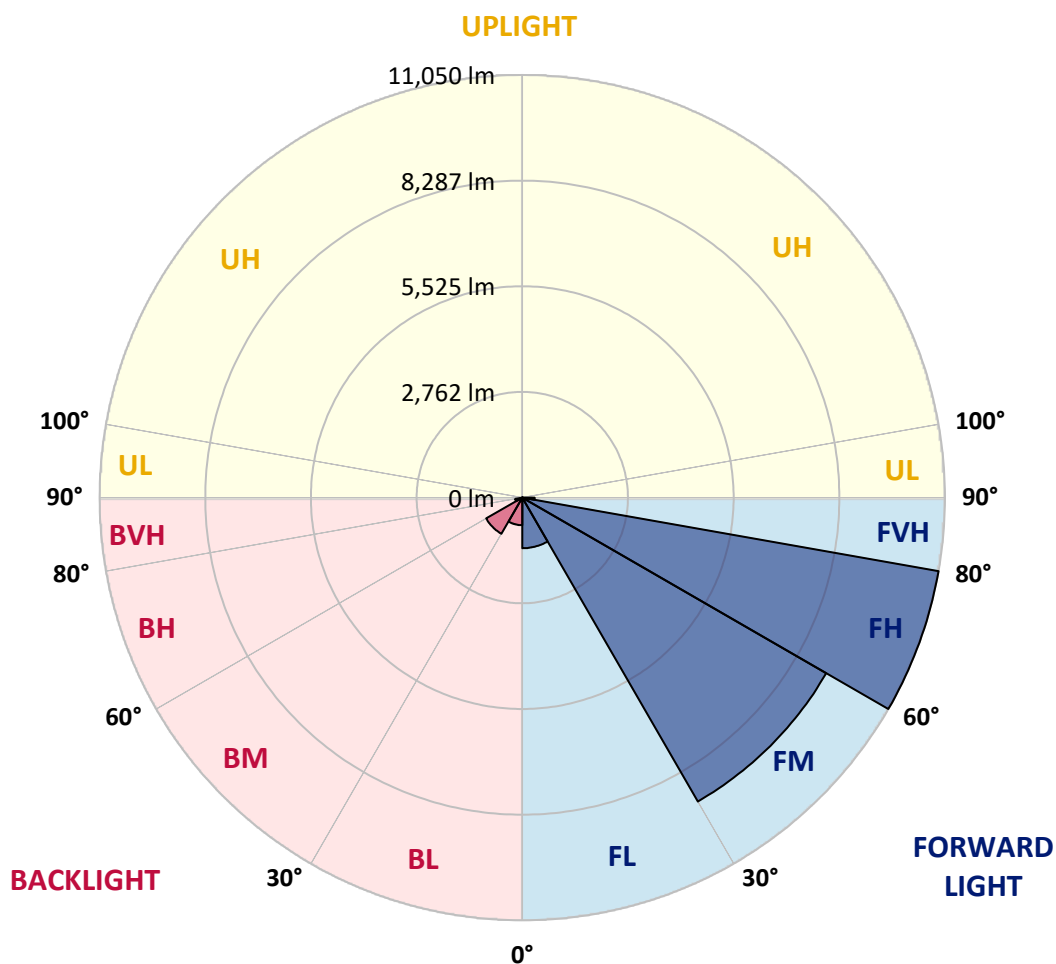
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1322.9	5.5			
FM	(30°-60°)	9174.0	38.4			
FH	(60°-80°)	11049.7	46.3			G4/12000
FVH	(80°-90°)	322.2	1.3			G3/500
BL	(0°-30°)	720.4	3.0	B2/1000		
BM	(30°-60°)	1090.6	4.6	B2/2500		
BH	(60°-80°)	187.0	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°	3838.3	3838.3	3838.3	3838.3	3838.3	3838.3	3838.3	3838.3	3838.3	3838.3	3838.3
2.5°	3559.9	3596.5	3591.0	3603.8	3635.0	3647.8	3682.6	3721.1	3774.2	3810.9	3834.7
5°	3187.9	3215.4	3219.1	3283.2	3314.4	3349.2	3451.8	3563.5	3688.1	3787.0	3853.0
7.5°	2790.4	2805.0	2834.3	2918.6	2997.4	3032.2	3187.9	3382.1	3578.2	3763.2	3882.3
10°	2462.4	2478.9	2532.0	2621.8	2695.1	2740.9	2957.1	3200.8	3475.6	3750.4	3924.5
12.5°	2275.5	2284.7	2304.8	2385.5	2478.9	2528.4	2761.0	3039.5	3393.1	3755.9	3995.9
15°	2262.7	2259.0	2235.2	2268.2	2352.5	2403.8	2631.0	2929.6	3319.8	3774.2	4080.2
17.5°	2330.5	2321.3	2264.5	2264.5	2334.2	2376.3	2576.0	2871.0	3283.2	3816.4	4199.3
20°	2434.9	2420.3	2326.8	2319.5	2387.3	2431.3	2609.0	2874.6	3290.5	3895.1	4358.7
22.5°	2566.8	2550.3	2409.3	2412.9	2486.2	2530.2	2704.2	2940.6	3336.3	3992.2	4529.1
25°	2739.1	2720.7	2554.0	2546.7	2623.6	2662.1	2845.3	3057.9	3400.5	4113.2	4752.6
27.5°	2968.1	2929.6	2729.9	2718.9	2801.4	2850.8	3015.7	3215.4	3514.1	4279.9	5053.1
30°	3156.8	3114.6	2924.1	2894.8	2982.7	3021.2	3191.6	3427.9	3737.6	4571.2	5469.0
32.5°	3404.1	3341.8	3118.3	3041.4	3134.8	3184.3	3446.3	3823.7	4069.2	4879.0	5963.6
35°	3961.1	3922.6	3649.6	3380.3	3374.8	3437.1	3821.9	4223.1	4410.0	5359.0	6637.9
37.5°	4758.1	4730.6	4441.1	4080.2	3975.8	3946.4	4278.1	4662.8	4954.1	6018.6	7422.0
40°	5683.3	5619.2	5353.5	5047.6	4912.0	4825.9	4816.7	5316.9	5665.0	6914.5	8239.2
42.5°	6346.6	6229.3	5906.8	5884.9	5855.5	5765.8	5505.6	6273.3	6582.9	7878.2	9113.1
45°	7042.8	6865.1	6385.0	6302.6	6291.6	6286.1	6546.3	7405.5	7583.3	8922.6	10010.8
47.5°	7583.3	7442.2	7048.3	7011.6	7057.4	7182.0	7922.2	8607.4	8570.8	9853.3	10763.9
50°	8303.3	8197.0	7759.1	7828.8	8065.1	8268.5	9474.0	9917.4	9382.4	10586.1	11311.7
52.5°	9153.4	8957.4	8550.6	8739.3	9102.1	9441.1	11121.1	11064.3	9952.2	11137.6	11720.2
55°	9889.9	9750.7	9611.4	9807.5	10349.8	10773.0	12608.8	11923.6	10366.3	11581.0	11899.8
57.5°	11135.8	11102.8	10959.9	11159.6	11817.3	12257.1	13940.8	12590.5	10631.9	11811.8	11689.1
60°	12978.9	12925.8	12660.1	12914.8	13772.2	14463.0	15168.3	13189.6	10692.4	11722.1	11082.7
62.5°	15195.8	15014.4	14787.3	15162.8	16339.1	16643.2	16324.4	13545.1	10467.1	11007.5	9620.6
65°	17266.1	17079.3	17084.8	17876.3	19156.9	19364.0	17672.9	13491.9	9807.5	9217.5	7095.9
67.5°	18851.0	18819.8	19043.3	20587.8	22262.4	22119.5	18878.4	12696.8	7852.6	5974.6	3770.6
70°	18931.6	18992.0	19633.3	22240.4	23940.7	23713.5	18775.8	10320.5	4895.5	2748.2	1485.9
71°	17956.9	18363.6	19250.4	22189.1	24039.6	23744.6	17911.1	8644.1	3591.0	1916.4	1071.8
72.5°	15302.1	15516.4	17432.9	20882.8	23257.3	22627.0	15718.0	6058.9	2299.3	1172.6	615.6
75°	8427.9	8955.5	11674.4	16383.1	18601.8	18048.5	10243.5	2878.3	1146.9	641.3	254.7
77.5°	4012.4	3909.8	5696.1	9743.4	12612.5	12583.2	5161.2	1278.8	668.7	434.2	128.3
80°	1146.9	1289.8	2180.3	4631.7	7002.5	7079.4	1982.4	617.4	463.5	338.9	66.0
82.5°	346.3	353.6	800.6	2048.3	3482.9	3283.2	743.9	315.1	333.5	269.3	38.5
85°	60.5	75.1	236.3	721.9	1328.3	1007.7	186.9	150.2	219.9	177.7	22.0
87.5°	3.7	5.5	78.8	82.4	117.3	67.8	33.0	22.0	47.6	47.6	12.8
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°	3838.3	3838.3	3838.3	3838.3	3838.3	3838.3	3838.3	3838.3	3838.3	3838.3	3838.3
2.5°	3851.2	3862.2	3854.8	3838.3	3810.9	3777.9	3733.9	3697.3	3666.1	3649.6	3669.8
5°	3875.0	3889.6	3853.0	3770.6	3646.0	3510.4	3356.5	3237.4	3144.0	3114.6	3103.7
7.5°	3911.6	3920.8	3821.9	3638.6	3374.8	3054.2	2773.9	2537.5	2354.3	2299.3	2218.7
10°	3959.3	3953.8	3766.9	3426.1	2962.6	2480.7	2046.5	1724.0	1480.4	1392.4	1385.1
12.5°	4032.6	4003.2	3697.3	3136.6	2471.6	1841.3	1304.5	1020.5	866.6	815.3	804.3
15°	4124.2	4054.5	3587.3	2797.7	1892.6	1189.1	804.3	718.2	698.0	694.4	690.7
17.5°	4232.3	4122.3	3442.6	2381.8	1330.1	771.3	672.4	670.6	672.4	668.7	666.9
20°	4378.8	4193.8	3270.4	1888.9	879.4	650.4	641.3	641.3	643.1	641.3	641.3
22.5°	4534.6	4278.1	3057.9	1441.9	663.2	617.4	615.6	619.3	622.9	621.1	621.1
25°	4726.9	4388.0	2777.5	987.5	593.6	590.0	591.8	599.1	606.4	608.3	606.4
27.5°	5005.4	4523.6	2477.1	679.7	544.1	547.8	566.1	584.5	595.4	597.3	597.3
30°	5318.7	4673.8	2085.0	551.5	503.8	503.8	525.8	560.6	584.5	588.1	590.0
32.5°	5721.8	4847.9	1650.8	496.5	465.4	461.7	481.9	524.0	568.0	580.8	580.8
35°	6220.1	5053.1	1227.5	461.7	437.9	428.7	439.7	474.5	531.3	568.0	571.6
37.5°	6804.6	5247.3	897.8	430.6	412.2	399.4	406.7	434.2	480.0	535.0	549.6
40°	7345.1	5419.5	670.6	404.9	386.6	377.4	382.9	395.7	434.2	485.5	494.7
42.5°	7935.0	5553.2	533.2	377.4	360.9	357.3	357.3	362.8	388.4	417.7	419.6
45°	8523.1	5600.9	447.0	344.4	333.5	337.1	335.3	331.6	342.6	338.9	338.9
47.5°	8942.7	5544.1	370.1	313.3	313.3	318.8	309.6	296.8	291.3	269.3	271.2
50°	9230.4	5337.0	304.1	276.7	291.3	298.6	280.3	260.2	240.0	216.2	210.7
52.5°	9349.4	4968.8	249.2	229.0	258.3	267.5	245.5	221.7	190.5	170.4	164.9
55°	9272.5	4514.4	207.0	186.9	218.0	229.0	207.0	179.6	144.7	122.8	119.1
57.5°	8933.5	3972.1	175.9	148.4	174.1	181.4	166.7	137.4	102.6	80.6	80.6
60°	8347.3	3411.5	142.9	117.3	130.1	141.1	126.4	98.9	69.6	49.5	45.8
62.5°	7158.2	2770.2	115.4	91.6	91.6	100.8	87.9	71.5	44.0	25.7	23.8
65°	5168.5	1899.9	91.6	67.8	66.0	66.0	55.0	47.6	25.7	11.0	7.3
67.5°	2808.7	1071.8	73.3	51.3	45.8	44.0	34.8	27.5	11.0	1.8	0.0
70°	1104.8	412.2	56.8	34.8	29.3	27.5	18.3	12.8	7.3	0.0	0.0
71°	749.3	284.0	49.5	29.3	23.8	20.2	14.7	11.0	5.5	0.0	0.0
72.5°	428.7	175.9	38.5	22.0	18.3	14.7	11.0	7.3	5.5	0.0	0.0
75°	186.9	89.8	23.8	16.5	12.8	9.2	7.3	5.5	1.8	0.0	0.0
77.5°	95.3	49.5	16.5	12.8	7.3	5.5	3.7	1.8	0.0	0.0	0.0
80°	53.1	25.7	11.0	7.3	5.5	3.7	1.8	1.8	0.0	0.0	0.0
82.5°	29.3	14.7	5.5	3.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.3	9.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.2	3.7	0.0	0.0	0.0	0.0	1.8	1.8	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)