

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: P456131

Luminaire Tested: **GALN-SA7B-760-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456131
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-760-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5700K, 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: 28539 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

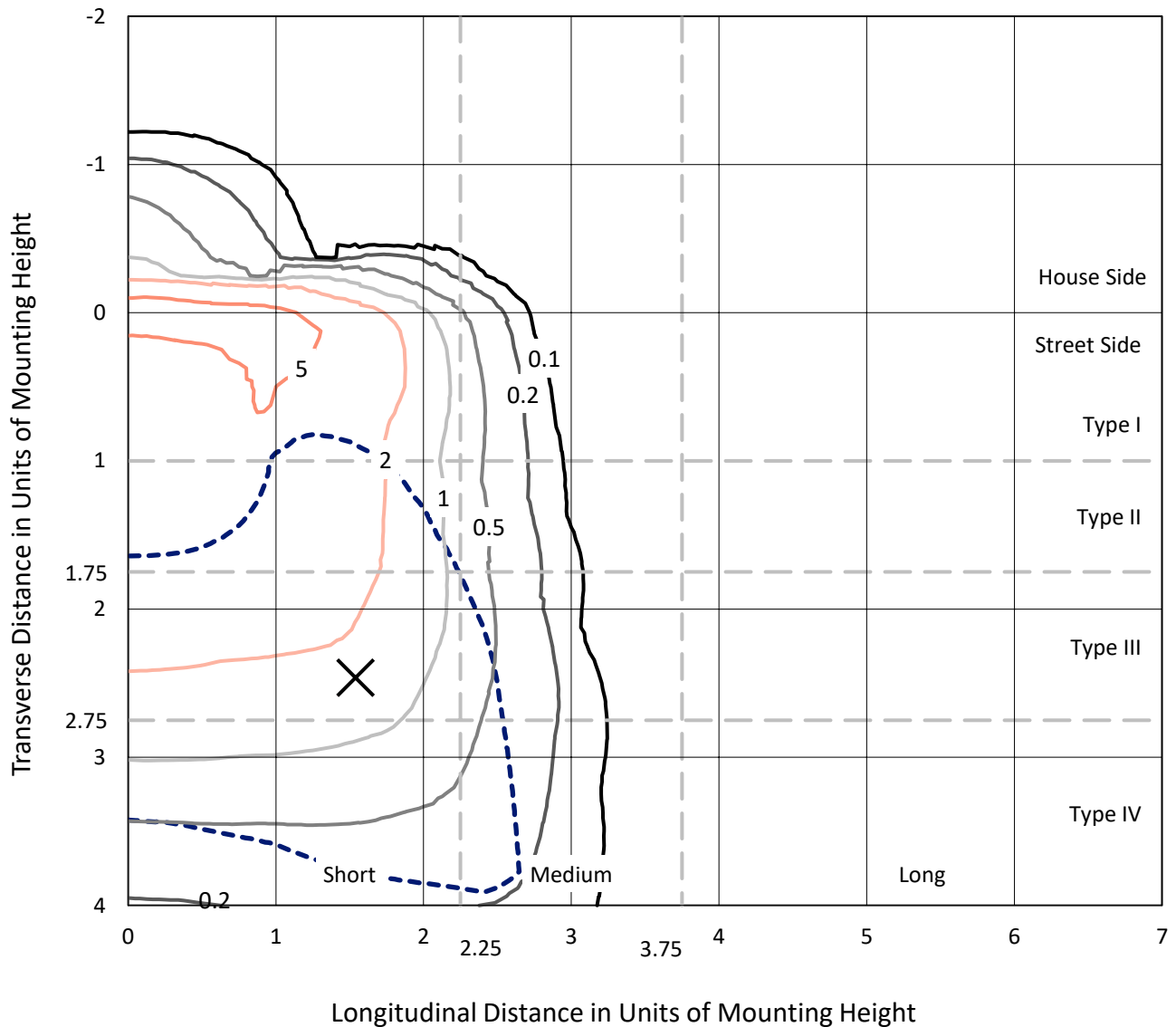
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456131
 CATALOG NUMBER: GALN-SA7B-760-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

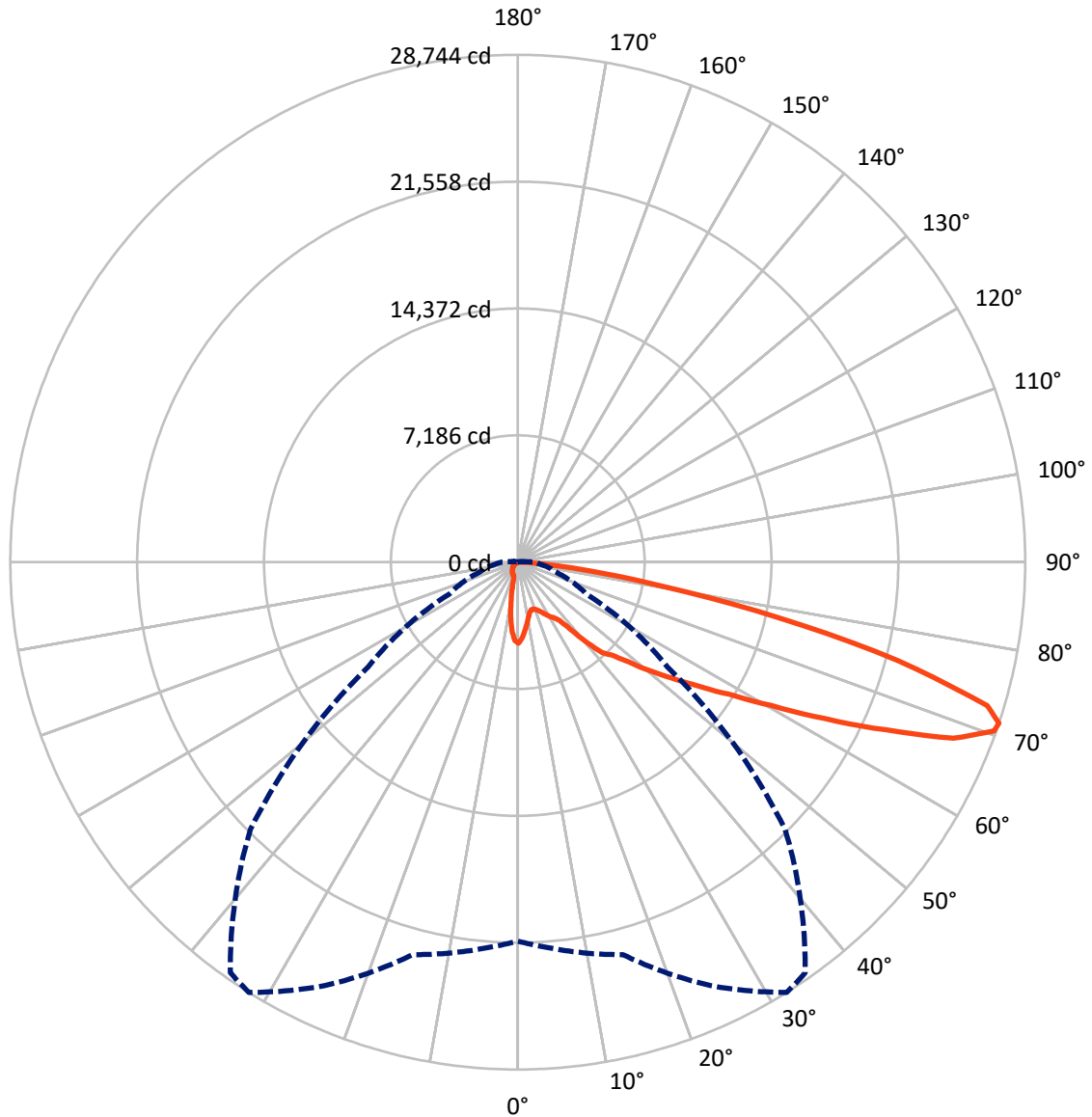
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P456131
CATALOG NUMBER: GALN-SA7B-760-U-T4FT-HSS

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	2390.5	0.0	2390.5
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	26148.6	0.0	26148.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	28539.0	0.0	28539.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.2	1.3
10°-20°	809.9	2.8
20°-30°	1260.0	4.4
30°-40°	2099.2	7.4
40°-50°	3904.8	13.7
50°-60°	6269.4	22.0
60°-70°	8432.6	29.5
70°-80°	5003.2	17.5
80°-90°	386.7	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°	28539.0	100.0
0°-180°	28539.0	100.0



REPORT NUMBER: P456131

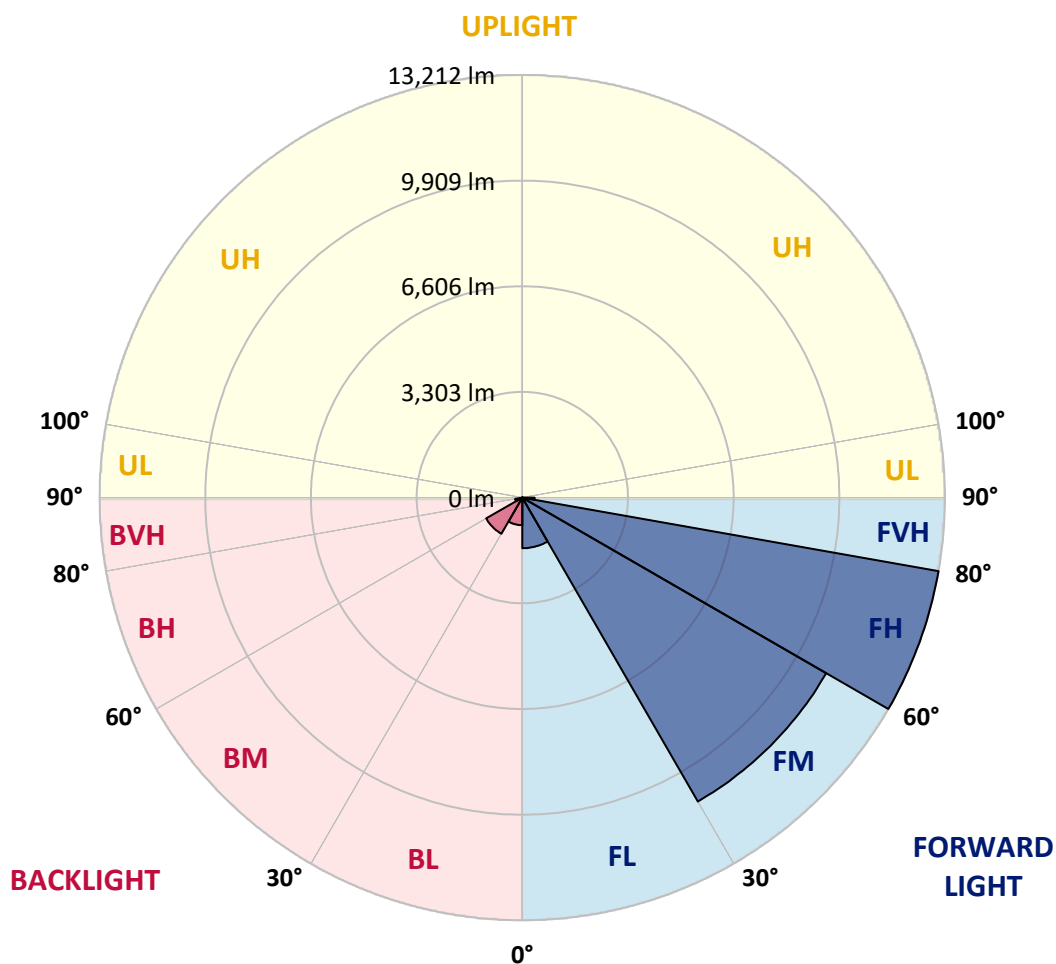
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1581.8	5.5			
FM	(30°-60°)	10969.3	38.4			
FH	(60°-80°)	13212.2	46.3			G5
FVH	(80°-90°)	385.2	1.3			G3/500
BL	(0°-30°)	861.3	3.0	B2/1000		
BM	(30°-60°)	1304.0	4.6	B2/2500		
BH	(60°-80°)	223.6	0.8	B1/500		G1/500
BVH	(80°-90°)	1.5	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





REPORT NUMBER: P456131

CATALOG NUMBER: GALN-SA7B-760-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	4589.5	4589.5	4589.5	4589.5	4589.5	4589.5	4589.5	4589.5	4589.5	4589.5	4589.5
2.5°	4256.5	4300.3	4293.8	4309.1	4346.3	4361.7	4403.3	4449.3	4512.8	4556.7	4585.1
5°	3811.8	3844.7	3849.1	3925.7	3963.0	4004.6	4127.3	4260.9	4409.9	4528.2	4607.0
7.5°	3336.4	3354.0	3389.0	3489.8	3584.0	3625.6	3811.8	4044.0	4278.4	4499.7	4642.1
10°	2944.3	2964.0	3027.5	3134.9	3222.5	3277.3	3535.8	3827.2	4155.8	4484.4	4692.5
12.5°	2720.8	2731.8	2755.9	2852.3	2964.0	3023.2	3301.4	3634.4	4057.2	4490.9	4777.9
15°	2705.5	2701.1	2672.7	2712.1	2812.9	2874.2	3145.8	3502.9	3969.5	4512.8	4878.7
17.5°	2786.6	2775.6	2707.7	2707.7	2791.0	2841.3	3080.1	3432.8	3925.7	4563.2	5021.1
20°	2911.4	2893.9	2782.2	2773.4	2854.5	2907.1	3119.6	3437.2	3934.5	4657.4	5211.7
22.5°	3069.2	3049.5	2880.8	2885.2	2972.8	3025.4	3233.5	3516.1	3989.3	4773.5	5415.4
25°	3275.1	3253.2	3053.8	3045.1	3137.1	3183.1	3402.2	3656.3	4065.9	4918.1	5682.7
27.5°	3548.9	3502.9	3264.1	3251.0	3349.6	3408.7	3605.9	3844.7	4201.8	5117.5	6042.0
30°	3774.6	3724.2	3496.4	3461.3	3566.5	3612.5	3816.2	4098.8	4469.0	5465.8	6539.2
32.5°	4070.3	3995.8	3728.6	3636.6	3748.3	3807.4	4120.7	4572.0	4865.5	5833.8	7130.7
35°	4736.3	4690.3	4363.9	4041.8	4035.3	4109.8	4569.8	5049.6	5273.0	6407.8	7936.9
37.5°	5689.2	5656.4	5310.3	4878.7	4753.8	4718.8	5115.3	5575.3	5923.7	7196.5	8874.5
40°	6795.6	6718.9	6401.2	6035.4	5873.3	5770.3	5759.4	6357.4	6773.6	8267.7	9851.6
42.5°	7588.6	7448.4	7062.8	7036.5	7001.5	6894.1	6583.1	7501.0	7871.2	9420.0	10896.5
45°	8421.1	8208.6	7634.6	7536.0	7522.9	7516.3	7827.4	8854.8	9067.3	10668.7	11970.0
47.5°	9067.3	8898.6	8427.6	8383.8	8438.6	8587.5	9472.6	10291.9	10248.1	11781.6	12870.4
50°	9928.3	9801.2	9277.6	9360.9	9643.5	9886.6	11328.1	11858.3	11218.6	12657.9	13525.4
52.5°	10944.7	10710.3	10224.0	10449.6	10883.4	11288.7	13297.6	13229.6	11899.9	13317.3	14013.9
55°	11825.4	11658.9	11492.4	11726.8	12375.3	12881.3	15076.4	14257.1	12395.0	13847.4	14228.6
57.5°	13315.1	13275.6	13104.8	13343.6	14130.0	14655.8	16669.0	15054.5	12712.6	14123.4	13976.7
60°	15518.9	15455.4	15137.7	15442.2	16467.5	17293.4	18136.8	15770.9	12784.9	14016.1	13251.5
62.5°	18169.7	17952.8	17681.1	18130.2	19536.7	19900.3	19519.1	16195.8	12515.5	13161.7	11503.4
65°	20645.2	20421.7	20428.3	21374.7	22906.0	23153.5	21131.5	16132.3	11726.8	11021.4	8484.6
67.5°	22540.1	22502.9	22770.1	24616.9	26619.2	26448.3	22573.0	15181.6	9389.3	7143.9	4508.5
70°	22636.5	22708.8	23475.5	26592.9	28625.9	28354.2	22450.3	12340.2	5853.6	3286.1	1776.7
71°	21471.1	21957.4	23017.7	26531.6	28744.2	28391.5	21416.3	10335.7	4293.8	2291.5	1281.6
72.5°	18296.7	18553.0	20844.5	24969.6	27808.7	27055.1	18794.0	7244.6	2749.3	1402.0	736.1
75°	10077.2	10708.1	13959.1	19589.2	22242.2	21580.6	12248.2	3441.6	1371.4	766.7	304.5
77.5°	4797.6	4675.0	6810.9	11650.1	15080.8	15045.7	6171.2	1529.1	799.6	519.2	153.3
80°	1371.4	1542.3	2606.9	5538.1	8372.9	8464.9	2370.3	738.3	554.2	405.3	78.9
82.5°	414.0	422.8	957.3	2449.2	4164.5	3925.7	889.4	376.8	398.7	322.0	46.0
85°	72.3	89.8	282.6	863.1	1588.3	1204.9	223.5	179.6	262.9	212.5	26.3
87.5°	4.4	6.6	94.2	98.6	140.2	81.1	39.4	26.3	57.0	57.0	15.3
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°	4589.5	4589.5	4589.5	4589.5	4589.5	4589.5	4589.5	4589.5	4589.5	4589.5	4589.5
2.5°	4604.9	4618.0	4609.2	4589.5	4556.7	4517.2	4464.6	4420.8	4383.6	4363.9	4388.0
5°	4633.3	4650.9	4607.0	4508.5	4359.5	4197.4	4013.4	3871.0	3759.2	3724.2	3711.0
7.5°	4677.1	4688.1	4569.8	4350.7	4035.3	3651.9	3316.7	3034.1	2815.0	2749.3	2652.9
10°	4734.1	4727.5	4504.1	4096.6	3542.4	2966.2	2447.0	2061.4	1770.1	1664.9	1656.2
12.5°	4821.7	4786.7	4420.8	3750.5	2955.3	2201.7	1559.8	1220.2	1036.2	974.9	961.7
15°	4931.3	4848.0	4289.4	3345.2	2263.0	1421.8	961.7	858.8	834.7	830.3	825.9
17.5°	5060.5	4929.1	4116.3	2847.9	1590.4	922.3	804.0	801.8	804.0	799.6	797.4
20°	5235.8	5014.5	3910.4	2258.6	1051.5	777.7	766.7	766.7	768.9	766.7	766.7
22.5°	5422.0	5115.3	3656.3	1724.1	793.0	738.3	736.1	740.5	744.8	742.6	742.6
25°	5652.0	5246.7	3321.1	1180.8	709.8	705.4	707.6	716.4	725.1	727.3	725.1
27.5°	5985.0	5408.8	2961.8	812.7	650.6	655.0	676.9	698.8	712.0	714.2	714.2
30°	6359.6	5588.5	2493.0	659.4	602.4	602.4	628.7	670.4	698.8	703.2	705.4
32.5°	6841.6	5796.6	1973.8	593.7	556.4	552.1	576.2	626.5	679.1	694.5	694.5
35°	7437.4	6042.0	1467.8	552.1	523.6	512.6	525.8	567.4	635.3	679.1	683.5
37.5°	8136.3	6274.2	1073.4	514.8	492.9	477.6	486.3	519.2	574.0	639.7	657.2
40°	8782.5	6480.1	801.8	484.1	462.2	451.3	457.9	473.2	519.2	580.5	591.5
42.5°	9487.9	6640.0	637.5	451.3	431.6	427.2	427.2	433.8	464.4	499.5	501.7
45°	10191.1	6697.0	534.5	411.9	398.7	403.1	400.9	396.5	409.7	405.3	405.3
47.5°	10692.8	6629.1	442.5	374.6	374.6	381.2	370.2	354.9	348.3	322.0	324.2
50°	11036.7	6381.5	363.7	330.8	348.3	357.1	335.2	311.1	287.0	258.5	251.9
52.5°	11179.1	5941.2	297.9	273.8	308.9	319.8	293.6	265.1	227.8	203.7	197.2
55°	11087.1	5397.9	247.5	223.5	260.7	273.8	247.5	214.7	173.1	146.8	142.4
57.5°	10681.9	4749.4	210.3	177.4	208.1	216.9	199.4	164.3	122.7	96.4	96.4
60°	9980.8	4079.1	170.9	140.2	155.5	168.7	151.2	118.3	83.2	59.1	54.8
62.5°	8559.1	3312.3	138.0	109.5	109.5	120.5	105.2	85.4	52.6	30.7	28.5
65°	6180.0	2271.8	109.5	81.1	78.9	78.9	65.7	57.0	30.7	13.1	8.8
67.5°	3358.3	1281.6	87.6	61.3	54.8	52.6	41.6	32.9	13.1	2.2	0.0
70°	1321.0	492.9	67.9	41.6	35.1	32.9	21.9	15.3	8.8	0.0	0.0
71°	896.0	339.6	59.1	35.1	28.5	24.1	17.5	13.1	6.6	0.0	0.0
72.5°	512.6	210.3	46.0	26.3	21.9	17.5	13.1	8.8	6.6	0.0	0.0
75°	223.5	107.3	28.5	19.7	15.3	11.0	8.8	6.6	2.2	0.0	0.0
77.5°	113.9	59.1	19.7	15.3	8.8	6.6	4.4	2.2	0.0	0.0	0.0
80°	63.5	30.7	13.1	8.8	6.6	4.4	2.2	2.2	0.0	0.0	0.0
82.5°	35.1	17.5	6.6	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.9	11.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.0	4.4	0.0	0.0	0.0	0.0	2.2	2.2	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)