

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: P456792

Luminaire Tested: **GALN-SA8A-750-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456792
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-750-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29565 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

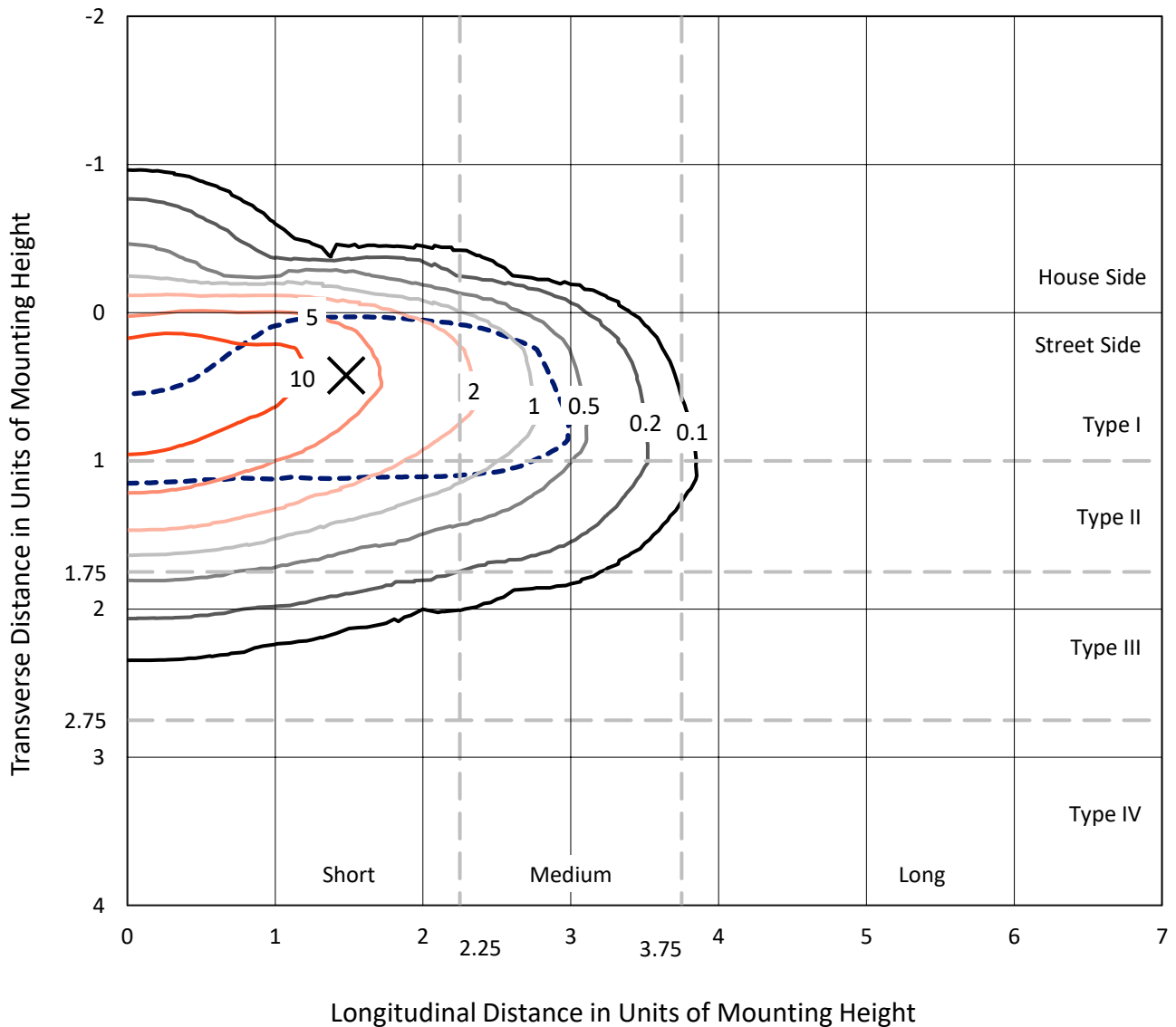
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

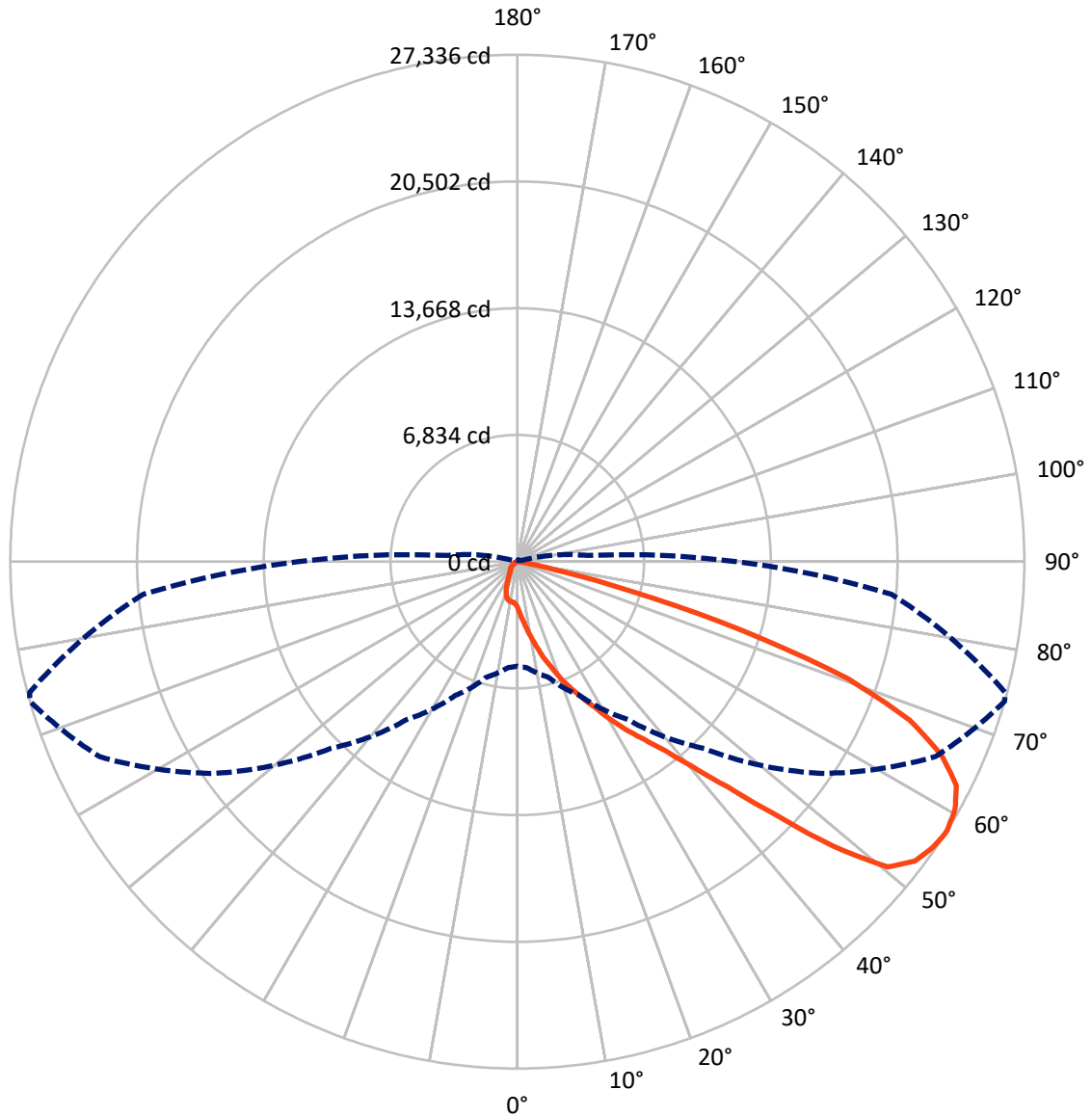
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1705.2	0.0	1705.2
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	27859.8	0.0	27859.8
	% Fixture	94.2	0.0	94.2
Total	Lumens	29565.0	0.0	29565.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.9	1.0
10°-20°	1178.0	4.0
20°-30°	2520.6	8.5
30°-40°	4632.9	15.7
40°-50°	7102.3	24.0
50°-60°	7513.2	25.4
60°-70°	4906.3	16.6
70°-80°	1340.6	4.5
80°-90°	72.2	0.2
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°	29565.0	100.0
0°-180°	29565.0	100.0

Coefficient of Utilization



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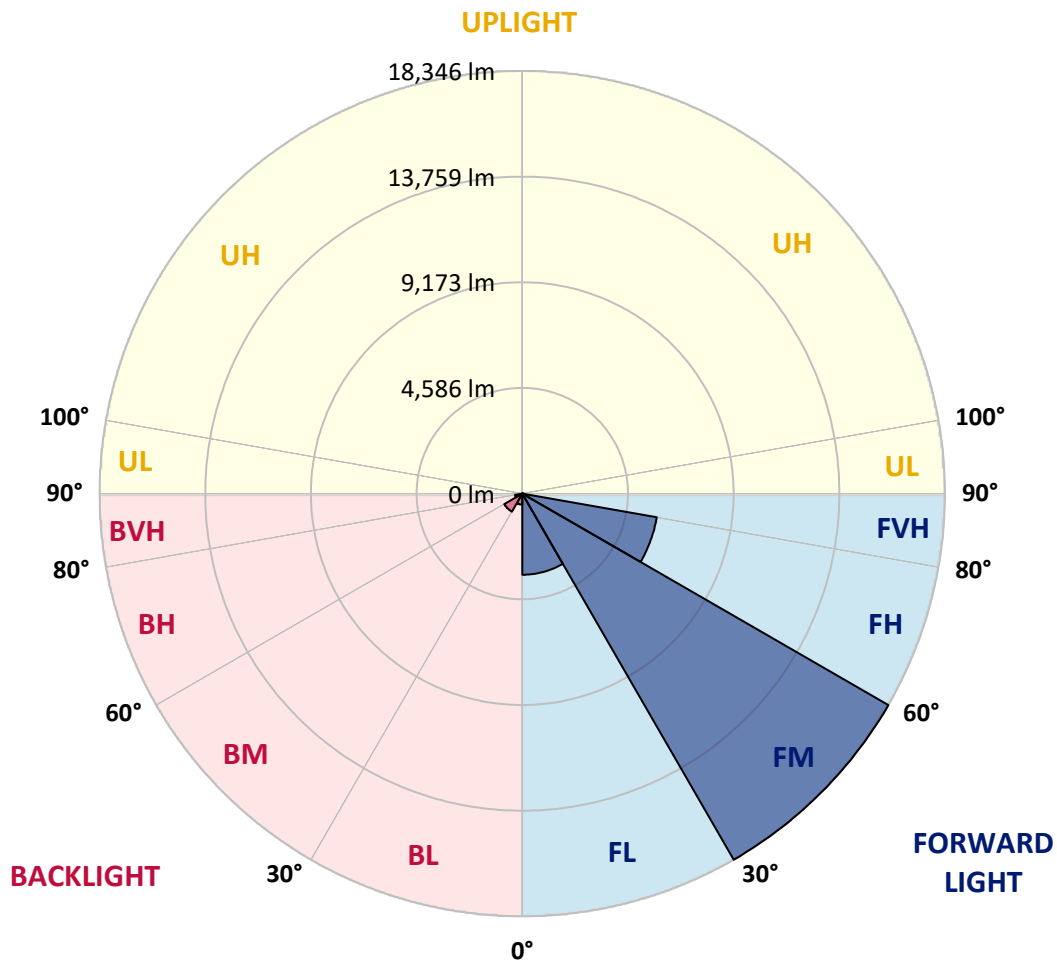
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3521.1	11.9			
FM	(30°-60°)	18345.6	62.1			
FH	(60°-80°)	5926.8	20.0			G3/7500
FVH	(80°-90°)	66.2	0.2			G1/100
BL	(0°-30°)	476.3	1.6	B1/500		
BM	(30°-60°)	902.8	3.1	B1/1000		
BH	(60°-80°)	320.1	1.1	B1/500		G1/500
BVH	(80°-90°)	6.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2476.0	2476.0	2476.0	2476.0	2476.0	2476.0	2476.0	2476.0	2476.0	2476.0	2476.0
2.5°	3623.2	3590.6	3525.2	3502.8	3406.8	3257.8	3127.2	2951.6	2812.8	2798.5	2631.2
5°	4852.0	4778.6	4747.9	4601.0	4370.3	4153.9	3782.4	3500.7	3176.2	3151.7	2814.9
7.5°	6036.0	5933.9	5903.3	5764.5	5495.0	5154.1	4672.4	4160.1	3645.7	3598.7	3061.9
10°	6893.3	6907.6	6852.5	6760.6	6542.2	6195.2	5601.2	4901.0	4168.2	4109.0	3339.5
12.5°	7507.7	7505.7	7515.9	7513.8	7397.5	7134.2	6509.5	5703.2	4743.9	4627.5	3657.9
15°	7907.8	7913.9	7944.5	8050.7	8062.9	7899.6	7379.1	6470.7	5411.3	5266.4	4002.9
17.5°	8311.9	8354.8	8403.8	8503.8	8593.6	8528.3	8160.9	7270.9	6015.5	5907.4	4372.3
20°	8979.4	9038.6	9010.1	9071.3	9118.2	9124.4	8840.6	8009.8	6748.4	6566.7	4794.9
22.5°	10047.0	10045.0	9971.5	9861.3	9769.4	9765.3	9508.1	8769.2	7413.8	7238.3	5219.5
25°	11396.3	11402.4	11259.5	10945.2	10716.5	10436.9	10140.9	9434.6	8126.2	7909.8	5666.5
27.5°	12943.5	12904.8	12688.4	12255.6	11802.5	11324.8	10898.2	10208.3	8881.5	8701.8	6178.8
30°	14333.6	14319.3	14066.2	13537.5	12941.5	12461.8	11843.3	11177.9	9859.2	9638.8	6752.4
32.5°	15627.8	15648.2	15297.1	14750.0	14174.4	13621.2	12968.0	12104.6	10818.6	10506.3	7377.1
35°	16638.2	16658.6	16295.3	15840.1	15248.1	14788.8	14166.2	13092.5	11765.7	11502.4	8095.6
37.5°	17177.1	17203.6	16993.4	16650.4	16281.0	16050.3	15470.6	14364.2	12917.0	12757.8	8944.7
40°	17279.1	17309.8	17217.9	17126.0	17105.6	17271.0	17101.6	15862.5	14513.3	14264.2	10210.3
42.5°	16973.0	17013.8	17054.6	17258.7	17675.1	18281.4	18871.3	17895.6	16568.8	16234.0	11757.6
45°	16168.7	16164.6	16325.9	16854.6	17787.4	19081.6	20720.7	20441.0	19369.4	18971.3	13943.7
47.5°	14792.9	14772.5	15121.5	15874.8	17328.1	19228.5	22229.2	23531.5	22943.6	22576.2	16293.2
50°	12696.5	12796.6	13345.7	14396.9	16187.1	18783.5	22694.6	25558.4	25876.9	25487.0	18191.6
52.5°	10240.9	10236.8	11098.2	12525.1	14496.9	17803.7	22370.0	25925.9	26830.1	26532.1	19126.5
55°	7579.1	7632.2	8528.3	9967.4	12302.6	16015.6	21310.6	25548.2	27193.5	26983.2	19742.9
57°	5637.9	5731.8	6450.3	7973.1	10392.0	14245.8	19900.1	24872.6	27336.4	27222.0	20255.3
57.5°	5262.3	5266.4	5966.6	7350.5	9832.7	13566.1	19495.9	24590.9	27332.3	27269.0	20339.0
60°	3239.5	3341.5	3825.3	4968.4	7197.4	10587.9	16787.2	22972.2	27120.0	27211.8	20696.2
62.5°	1939.2	1982.0	2296.4	2994.5	4639.7	7728.2	13737.6	20900.3	26566.8	26846.5	20671.7
65°	1247.2	1257.4	1400.3	1812.6	2900.6	5223.5	10585.9	18163.0	25135.9	25650.3	19863.4
67.5°	963.5	979.8	1037.0	1190.0	1682.0	3253.7	7487.3	15242.0	22821.1	23484.5	17903.8
70°	855.3	863.4	883.9	932.8	1112.5	1837.1	4658.1	11906.6	18924.4	19112.2	14011.1
72.5°	698.1	720.6	783.8	800.2	881.8	1147.2	2592.4	7991.5	12714.9	12761.9	7838.4
75°	540.9	545.0	638.9	685.9	743.0	790.0	1157.4	4029.4	6107.4	5780.8	3021.0
77.5°	404.2	422.5	465.4	524.6	606.2	565.4	518.5	1518.7	1896.3	1861.6	877.7
80°	259.2	269.4	324.6	394.0	471.5	369.5	291.9	445.0	416.4	428.7	210.2
82.5°	130.6	132.7	208.2	320.5	300.1	185.8	183.7	181.7	155.1	153.1	98.0
85°	14.3	30.6	134.7	183.7	134.7	61.2	85.7	83.7	81.6	83.7	57.2
87.5°	2.0	2.0	22.5	26.5	18.4	20.4	24.5	26.5	32.7	30.6	24.5
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°	2476.0	2476.0	2476.0	2476.0	2476.0	2476.0	2476.0	2476.0	2476.0	2476.0	2476.0
2.5°	2549.5	2467.9	2316.8	2171.9	2063.7	1994.3	1904.5	1871.8	1824.9	1818.7	1796.3
5°	2659.7	2504.6	2241.3	2033.1	1865.7	1739.1	1628.9	1537.1	1463.6	1447.2	1455.4
7.5°	2816.9	2586.3	2218.8	1935.1	1702.4	1486.0	1310.5	1202.3	1124.7	1096.1	1100.2
10°	2994.5	2694.4	2214.8	1831.0	1475.8	1210.5	1018.6	922.6	877.7	861.4	843.0
12.5°	3204.8	2819.0	2204.5	1669.7	1226.8	965.5	828.7	771.6	728.7	716.5	716.5
15°	3441.5	2951.6	2155.6	1469.7	996.1	798.1	706.3	661.4	647.1	634.8	634.8
17.5°	3688.5	3082.3	2053.5	1222.7	826.7	683.8	626.7	600.1	579.7	565.4	565.4
20°	3970.2	3210.9	1890.2	1004.3	698.1	610.3	565.4	534.8	518.5	506.2	502.1
22.5°	4237.6	3315.0	1682.0	824.7	608.3	549.1	508.3	475.6	459.3	453.2	453.2
25°	4515.2	3378.3	1430.9	681.8	555.2	498.1	453.2	426.6	412.3	408.2	406.2
27.5°	4784.7	3415.0	1210.5	596.0	506.2	451.1	408.2	387.8	373.5	369.5	371.5
30°	5111.3	3421.1	996.1	534.8	463.4	406.2	367.4	349.1	340.9	336.8	334.8
32.5°	5442.0	3413.0	836.9	498.1	422.5	367.4	334.8	320.5	314.4	308.2	308.2
35°	5813.5	3370.1	712.4	461.3	383.8	334.8	306.2	293.9	285.8	279.7	277.6
37.5°	6274.8	3347.6	641.0	420.5	349.1	304.1	277.6	265.4	259.2	251.1	249.0
40°	7001.5	3447.7	618.5	383.8	314.4	275.6	251.1	236.8	228.6	220.5	218.4
42.5°	7907.8	3623.2	581.8	347.0	283.7	249.0	224.5	208.2	193.9	183.7	179.6
45°	9081.5	3853.9	524.6	308.2	257.2	220.5	198.0	177.6	159.2	151.1	149.0
47.5°	10312.4	4076.4	473.6	277.6	228.6	196.0	171.5	149.0	132.7	126.6	124.5
50°	11067.6	4121.3	440.9	242.9	200.0	169.4	144.9	124.5	114.3	108.2	108.2
52.5°	11412.6	4049.8	396.0	212.3	173.5	149.0	124.5	108.2	102.1	98.0	95.9
55°	11653.5	3939.6	336.8	183.7	149.0	126.6	110.2	98.0	89.8	85.7	83.7
57°	11794.3	3790.6	291.9	161.3	128.6	110.2	98.0	87.8	79.6	71.4	71.4
57.5°	11800.4	3733.4	279.7	159.2	122.5	106.1	95.9	85.7	75.5	67.4	65.3
60°	11618.8	3341.5	224.5	134.7	98.0	89.8	79.6	67.4	53.1	44.9	42.9
62.5°	11035.0	2843.5	185.8	114.3	79.6	69.4	57.2	51.0	36.7	26.5	26.5
65°	10151.1	2306.6	159.2	91.9	65.3	51.0	38.8	36.7	22.5	12.2	10.2
67.5°	8873.3	1796.3	134.7	75.5	55.1	36.7	26.5	24.5	12.2	4.1	0.0
70°	6760.6	1224.7	112.3	61.2	40.8	26.5	18.4	14.3	8.2	2.0	0.0
72.5°	3896.7	673.6	93.9	46.9	30.6	20.4	14.3	8.2	8.2	0.0	0.0
75°	1392.1	289.9	71.4	34.7	24.5	16.3	10.2	4.1	6.1	2.0	0.0
77.5°	443.0	155.1	46.9	26.5	20.4	12.2	8.2	4.1	4.1	2.0	0.0
80°	130.6	81.6	28.6	22.5	14.3	10.2	6.1	2.0	4.1	2.0	0.0
82.5°	71.4	40.8	22.5	16.3	14.3	8.2	6.1	2.0	2.0	2.0	0.0
85°	36.7	24.5	18.4	16.3	14.3	8.2	6.1	2.0	0.0	2.0	2.0
87.5°	20.4	18.4	18.4	16.3	14.3	10.2	6.1	2.0	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)