

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: P457900

Luminaire Tested: **GALN-SA9B-730-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457900
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-SA9B-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 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: 33829 lumens
Efficiency: N/A
Efficacy: 92.9 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

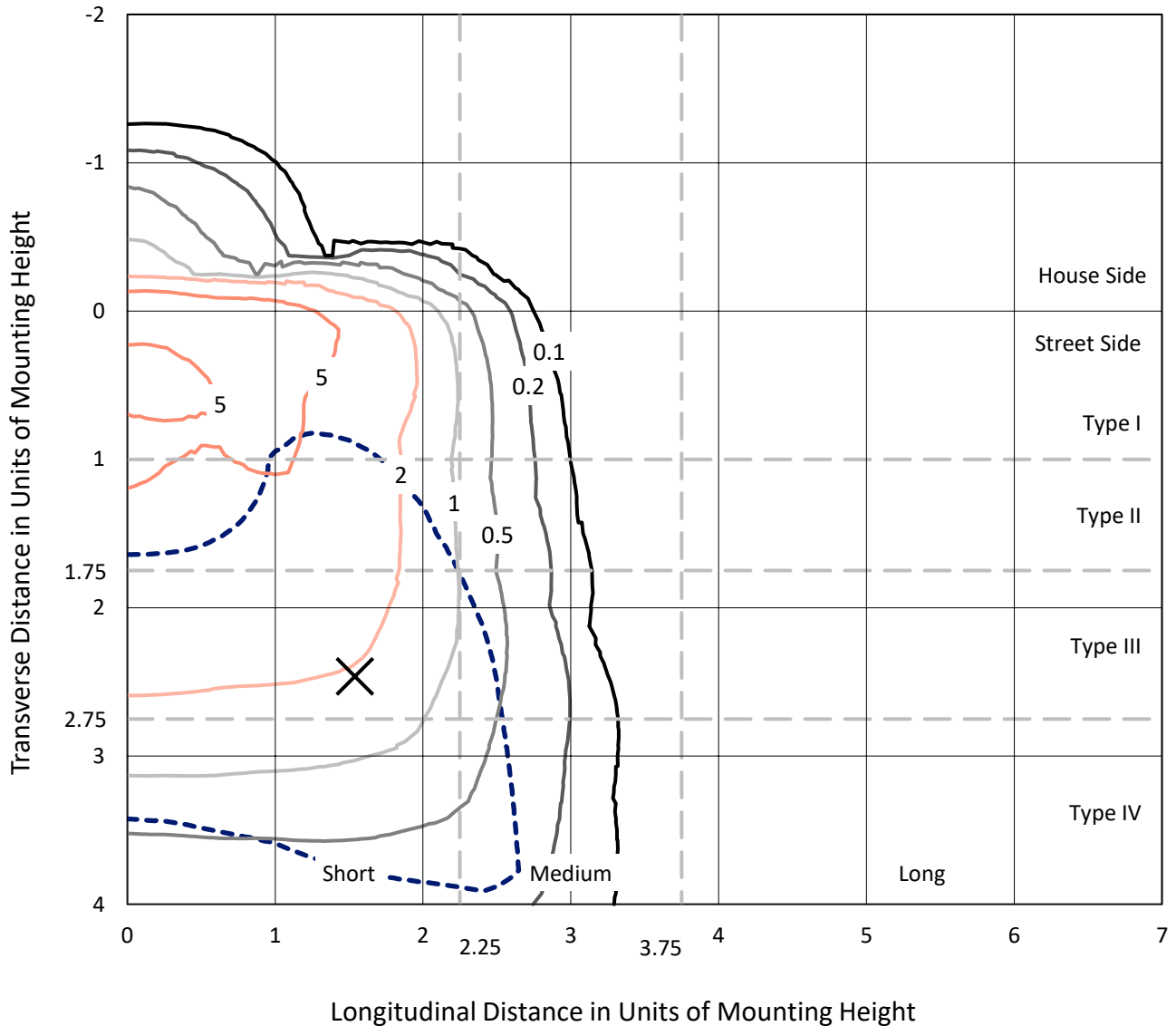
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

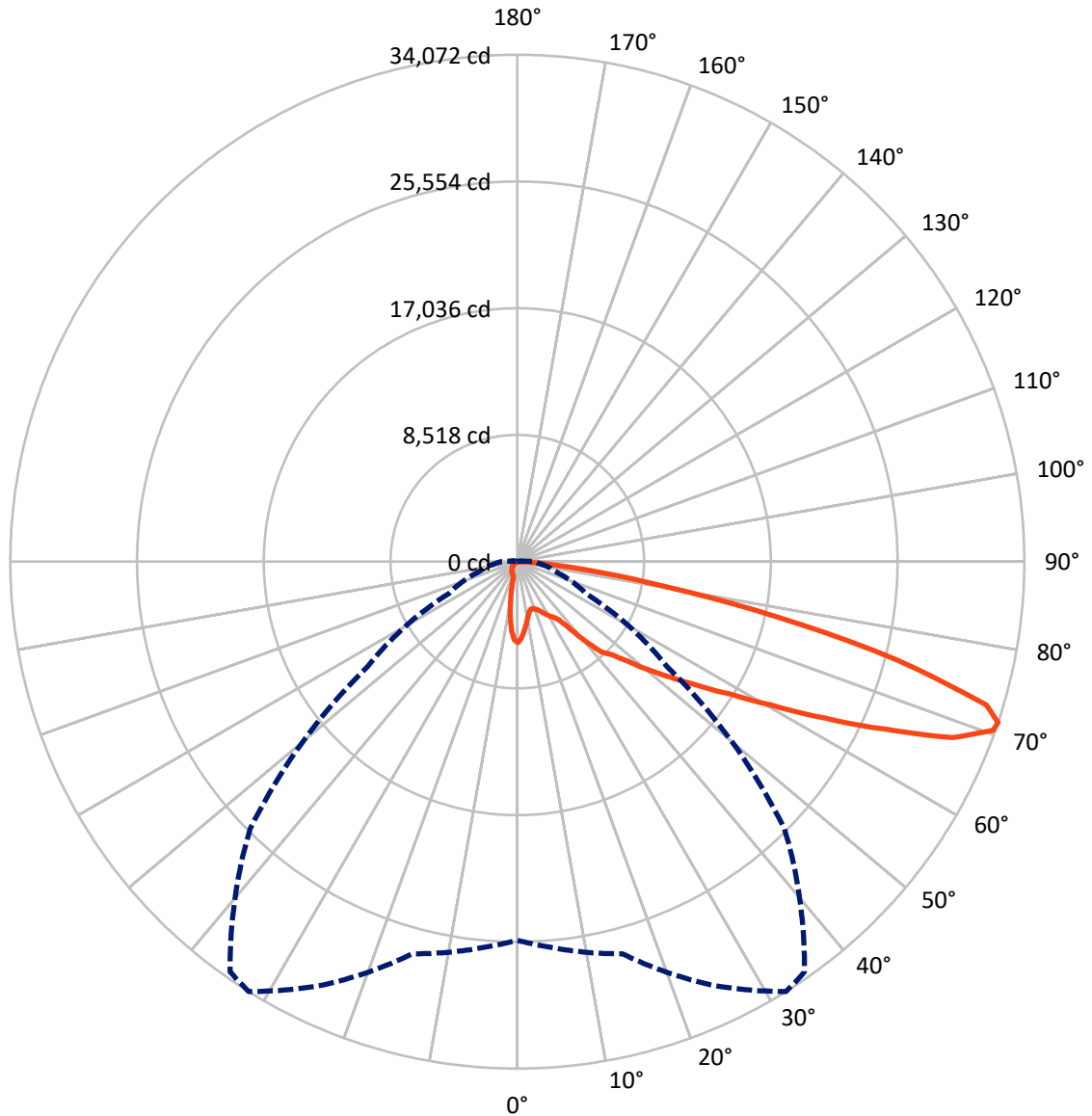
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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	2833.5	0.0	2833.5
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	30995.5	0.0	30995.5
	% Fixture	91.6	0.0	91.6
Total	Lumens	33829.0	0.0	33829.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.4	1.3
10°-20°	960.1	2.8
20°-30°	1493.6	4.4
30°-40°	2488.3	7.4
40°-50°	4628.6	13.7
50°-60°	7431.5	22.0
60°-70°	9995.6	29.5
70°-80°	5930.6	17.5
80°-90°	458.4	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°	33829.0	100.0
0°-180°	33829.0	100.0



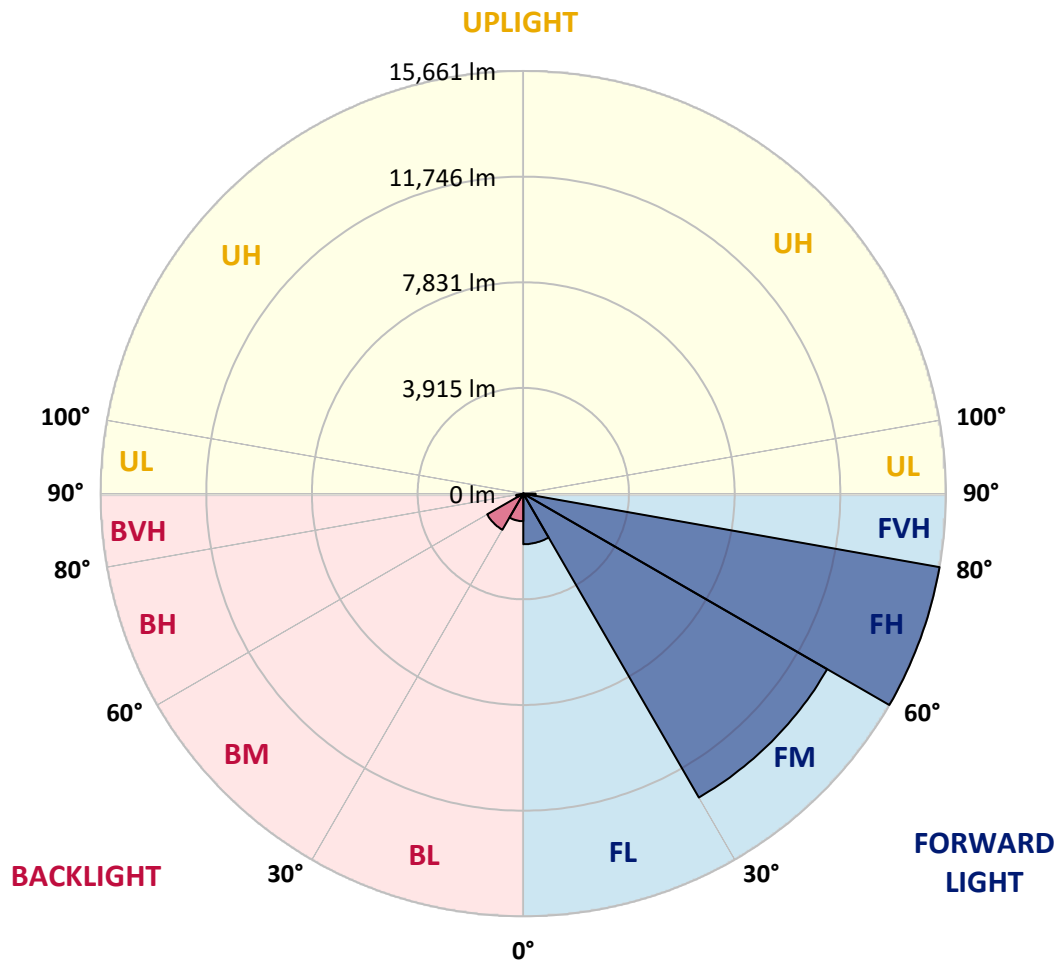
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1875.0	5.5			
FM	(30°-60°)	13002.6	38.4			
FH	(60°-80°)	15661.2	46.3			G5
FVH	(80°-90°)	456.6	1.3			G3/500
BL	(0°-30°)	1021.0	3.0	B3/2500		
BM	(30°-60°)	1545.8	4.6	B2/2500		
BH	(60°-80°)	265.0	0.8	B1/500		G1/500
BVH	(80°-90°)	1.8	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°	5440.2	5440.2	5440.2	5440.2	5440.2	5440.2	5440.2	5440.2	5440.2	5440.2	5440.2
2.5°	5045.5	5097.5	5089.7	5107.8	5152.0	5170.2	5219.5	5274.0	5349.3	5401.3	5435.0
5°	4518.4	4557.3	4562.5	4653.4	4697.6	4746.9	4892.3	5050.7	5227.3	5367.5	5461.0
7.5°	3954.9	3975.7	4017.2	4136.7	4248.3	4297.7	4518.4	4793.6	5071.5	5333.8	5502.6
10°	3490.1	3513.4	3588.7	3716.0	3819.8	3884.8	4191.2	4536.6	4926.1	5315.6	5562.3
12.5°	3225.2	3238.2	3266.7	3381.0	3513.4	3583.5	3913.3	4308.0	4809.2	5323.4	5663.6
15°	3207.0	3201.8	3168.1	3214.8	3334.3	3407.0	3729.0	4152.2	4705.3	5349.3	5783.0
17.5°	3303.1	3290.1	3209.6	3209.6	3308.3	3368.0	3651.1	4069.1	4653.4	5409.1	5951.8
20°	3451.1	3430.3	3297.9	3287.5	3383.6	3445.9	3697.8	4074.3	4663.8	5520.7	6177.7
22.5°	3638.1	3614.7	3414.8	3419.9	3523.8	3586.1	3832.8	4167.8	4728.7	5658.4	6419.2
25°	3882.2	3856.2	3619.9	3609.5	3718.6	3773.1	4032.8	4334.0	4819.6	5829.7	6736.0
27.5°	4206.8	4152.2	3869.2	3853.6	3970.5	4040.6	4274.3	4557.3	4980.6	6066.1	7161.9
30°	4474.2	4414.5	4144.4	4102.9	4227.5	4282.1	4523.6	4858.6	5297.4	6478.9	7751.4
32.5°	4824.8	4736.5	4419.7	4310.6	4443.1	4513.2	4884.5	5419.5	5767.4	6915.2	8452.5
35°	5614.2	5559.7	5172.8	4791.0	4783.2	4871.5	5416.9	5985.6	6250.4	7595.6	9408.1
37.5°	6743.8	6704.9	6294.6	5783.0	5635.0	5593.4	6063.5	6608.8	7021.7	8530.4	10519.5
40°	8055.2	7964.3	7587.8	7154.1	6961.9	6839.9	6826.9	7535.8	8029.2	9800.2	11677.7
42.5°	8995.2	8829.0	8372.0	8340.8	8299.3	8172.0	7803.3	8891.3	9330.2	11166.1	12916.3
45°	9982.0	9730.1	9049.7	8932.9	8917.3	8909.5	9278.3	10496.1	10748.0	12646.3	14188.7
47.5°	10748.0	10548.1	9989.8	9937.8	10002.8	10179.3	11228.4	12199.6	12147.7	13965.4	15256.0
50°	11768.6	11617.9	10997.3	11096.0	11431.0	11719.2	13427.9	14056.3	13298.1	15004.1	16032.5
52.5°	12973.5	12695.6	12119.1	12386.6	12900.7	13381.2	15762.4	15681.9	14105.7	15785.8	16611.5
55°	14017.4	13820.0	13622.7	13900.5	14669.1	15269.0	17871.0	16899.8	14692.5	16414.2	16866.0
57.5°	15783.2	15736.4	15533.9	15816.9	16749.2	17372.4	19758.8	17845.0	15069.1	16741.4	16567.4
60°	18395.5	18320.2	17943.7	18304.6	19519.9	20498.9	21498.7	18694.1	15154.7	16614.1	15707.9
62.5°	21537.6	21280.5	20958.5	21490.9	23158.0	23589.1	23137.2	19197.9	14835.3	15601.4	13635.6
65°	24472.0	24207.1	24214.9	25336.7	27151.8	27445.3	25048.4	19122.6	13900.5	13064.3	10057.3
67.5°	26718.2	26674.0	26990.8	29179.9	31553.3	31350.8	26757.1	17995.6	11129.8	8468.1	5344.2
70°	26832.4	26918.1	27827.0	31522.2	33932.0	33610.0	26611.7	14627.6	6938.6	3895.2	2106.0
71°	25450.9	26027.4	27284.3	31449.5	34072.2	33654.1	25386.0	12251.6	5089.7	2716.2	1519.1
72.5°	21688.2	21992.0	24708.3	29598.0	32963.4	32070.1	22277.7	8587.5	3258.9	1661.9	872.5
75°	11945.1	12693.0	16546.6	23220.3	26365.0	25580.8	14518.5	4079.5	1625.6	908.9	361.0
77.5°	5686.9	5541.5	8073.4	13809.6	17876.2	17834.6	7315.1	1812.5	947.8	615.4	181.8
80°	1625.6	1828.1	3090.2	6564.6	9924.9	10033.9	2809.7	875.1	657.0	480.4	93.5
82.5°	490.8	501.2	1134.8	2903.2	4936.5	4653.4	1054.3	446.6	472.6	381.7	54.5
85°	85.7	106.5	335.0	1023.1	1882.7	1428.2	264.9	212.9	311.6	251.9	31.2
87.5°	5.2	7.8	111.7	116.9	166.2	96.1	46.7	31.2	67.5	67.5	18.2
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°	5440.2	5440.2	5440.2	5440.2	5440.2	5440.2	5440.2	5440.2	5440.2	5440.2	5440.2
2.5°	5458.4	5474.0	5463.6	5440.2	5401.3	5354.5	5292.2	5240.3	5196.1	5172.8	5201.3
5°	5492.2	5512.9	5461.0	5344.2	5167.6	4975.4	4757.3	4588.5	4456.1	4414.5	4398.9
7.5°	5544.1	5557.1	5416.9	5157.2	4783.2	4328.8	3931.5	3596.5	3336.8	3258.9	3144.7
10°	5611.6	5603.8	5339.0	4856.0	4199.0	3516.0	2900.6	2443.6	2098.2	1973.5	1963.2
12.5°	5715.5	5673.9	5240.3	4445.7	3503.0	2609.8	1848.9	1446.4	1228.3	1155.6	1140.0
15°	5845.3	5746.7	5084.5	3965.3	2682.5	1685.3	1140.0	1017.9	989.4	984.2	979.0
17.5°	5998.5	5842.7	4879.3	3375.8	1885.3	1093.2	953.0	950.4	953.0	947.8	945.2
20°	6206.3	5944.0	4635.2	2677.3	1246.4	921.9	908.9	908.9	911.5	908.9	908.9
22.5°	6427.0	6063.5	4334.0	2043.7	940.0	875.1	872.5	877.7	882.9	880.3	880.3
25°	6699.7	6219.3	3936.7	1399.7	841.4	836.2	838.8	849.1	859.5	862.1	859.5
27.5°	7094.4	6411.4	3510.8	963.4	771.2	776.4	802.4	828.4	844.0	846.5	846.5
30°	7538.4	6624.4	2955.1	781.6	714.1	714.1	745.3	794.6	828.4	833.6	836.2
32.5°	8109.7	6871.1	2339.7	703.7	659.6	654.4	683.0	742.7	805.0	823.2	823.2
35°	8816.0	7161.9	1739.8	654.4	620.6	607.6	623.2	672.6	753.1	805.0	810.2
37.5°	9644.4	7437.1	1272.4	610.2	584.3	566.1	576.5	615.4	680.4	758.3	779.0
40°	10410.4	7681.2	950.4	573.9	547.9	534.9	542.7	560.9	615.4	688.1	701.1
42.5°	11246.6	7870.8	755.7	534.9	511.6	506.4	506.4	514.2	550.5	592.1	594.7
45°	12080.2	7938.3	633.6	488.2	472.6	477.8	475.2	470.0	485.6	480.4	480.4
47.5°	12674.8	7857.8	524.5	444.0	444.0	451.8	438.9	420.7	412.9	381.7	384.3
50°	13082.5	7564.4	431.1	392.1	412.9	423.3	397.3	368.7	340.2	306.4	298.6
52.5°	13251.3	7042.4	353.2	324.6	366.1	379.1	348.0	314.2	270.1	241.5	233.7
55°	13142.2	6398.4	293.4	264.9	309.0	324.6	293.4	254.5	205.1	174.0	168.8
57.5°	12661.8	5629.8	249.3	210.3	246.7	257.1	236.3	194.8	145.4	114.3	114.3
60°	11830.9	4835.2	202.5	166.2	184.4	200.0	179.2	140.2	98.7	70.1	64.9
62.5°	10145.6	3926.3	163.6	129.8	129.8	142.8	124.6	101.3	62.3	36.4	33.8
65°	7325.5	2692.8	129.8	96.1	93.5	93.5	77.9	67.5	36.4	15.6	10.4
67.5°	3980.8	1519.1	103.9	72.7	64.9	62.3	49.3	39.0	15.6	2.6	0.0
70°	1565.9	584.3	80.5	49.3	41.5	39.0	26.0	18.2	10.4	0.0	0.0
71°	1062.1	402.5	70.1	41.5	33.8	28.6	20.8	15.6	7.8	0.0	0.0
72.5°	607.6	249.3	54.5	31.2	26.0	20.8	15.6	10.4	7.8	0.0	0.0
75°	264.9	127.2	33.8	23.4	18.2	13.0	10.4	7.8	2.6	0.0	0.0
77.5°	135.0	70.1	23.4	18.2	10.4	7.8	5.2	2.6	0.0	0.0	0.0
80°	75.3	36.4	15.6	10.4	7.8	5.2	2.6	2.6	0.0	0.0	0.0
82.5°	41.5	20.8	7.8	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.0	13.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.0	5.2	0.0	0.0	0.0	0.0	2.6	2.6	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)