

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: P457929

Luminaire Tested: **GALN-SA9B-740-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457929
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-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 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: 37145 lumens
Efficiency: N/A
Efficacy: 102.0 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

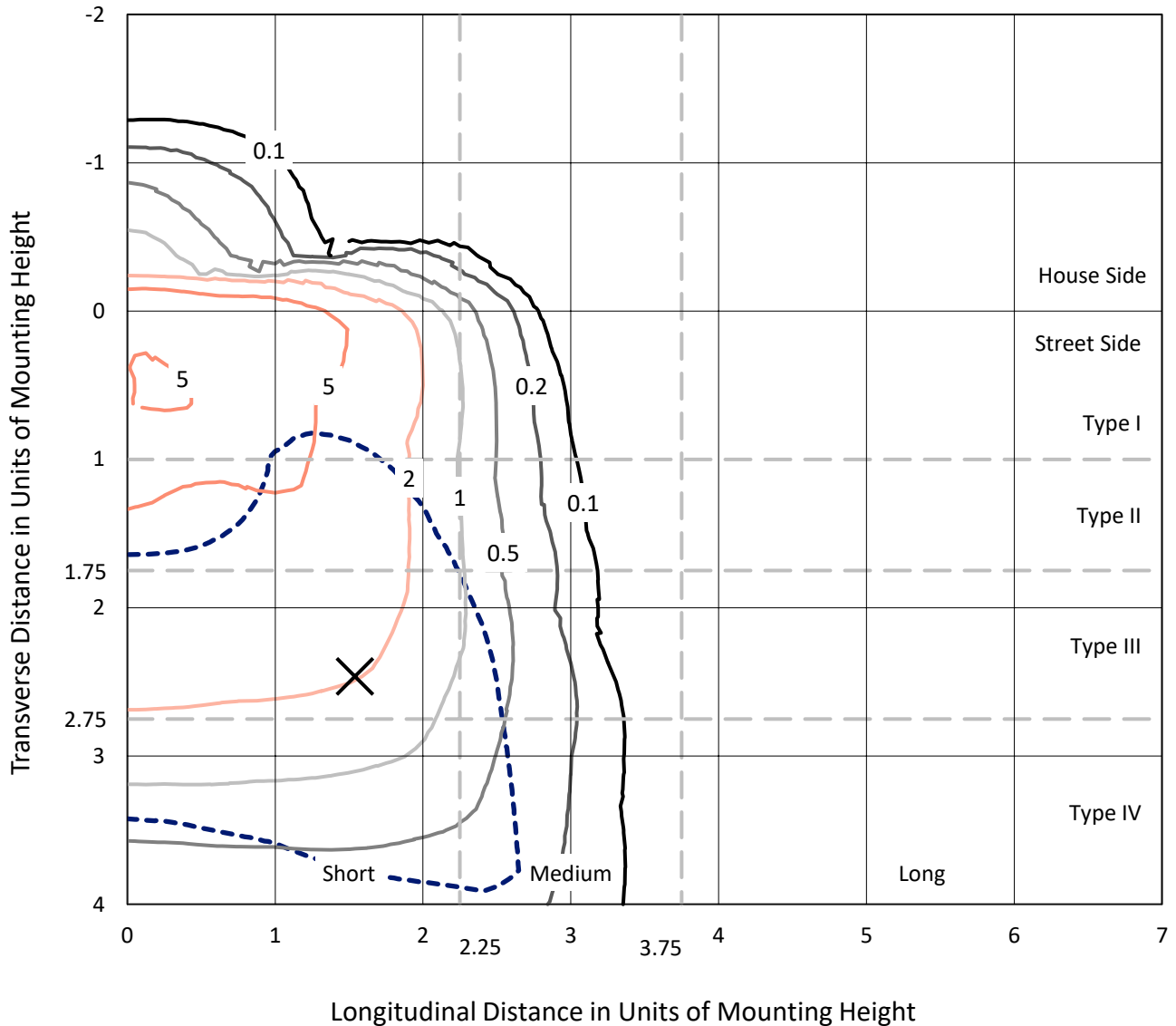
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

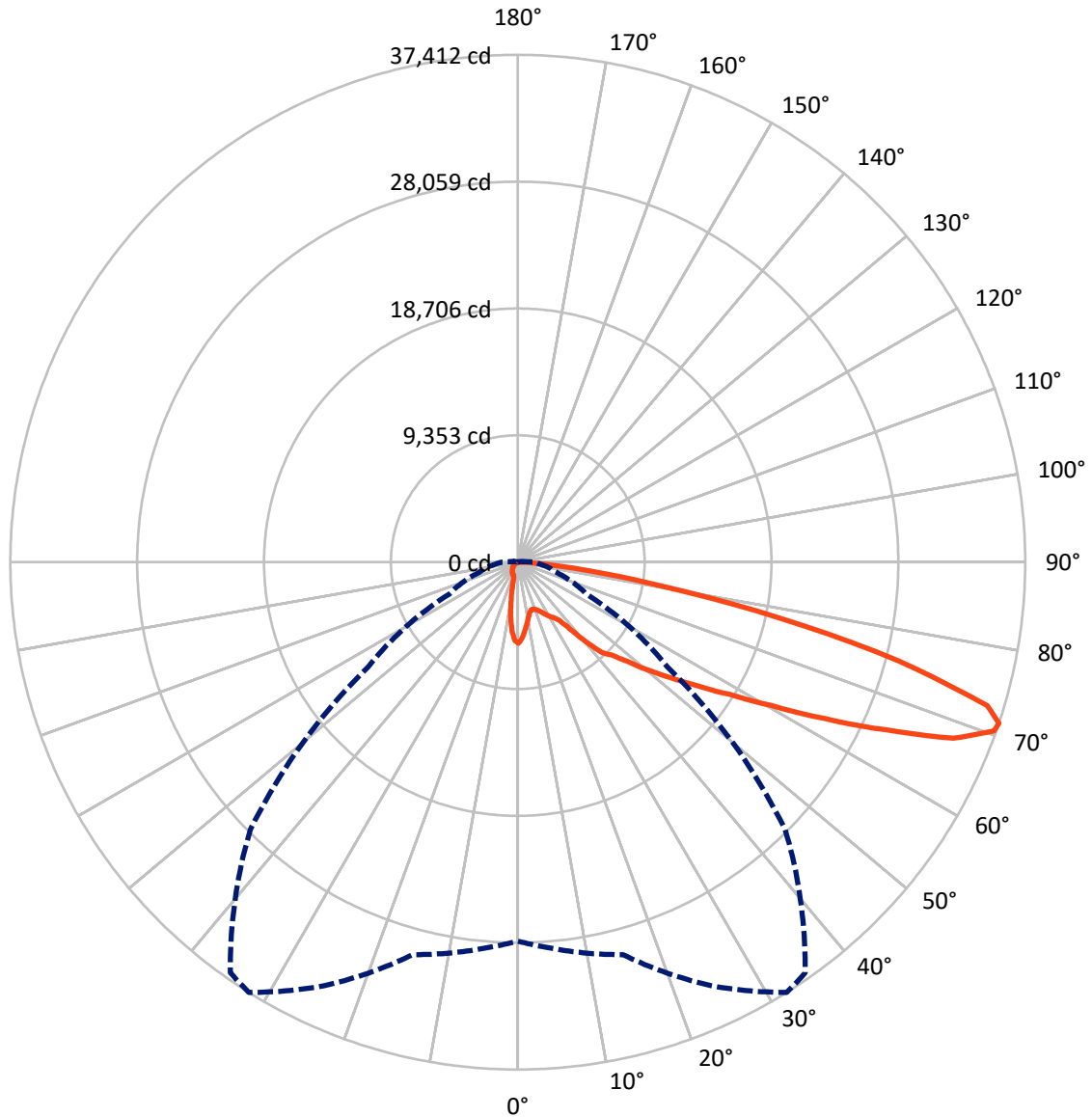
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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	3111.3	0.0	3111.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	34033.7	0.0	34033.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	37145.0	0.0	37145.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.7	1.3
10°-20°	1054.2	2.8
20°-30°	1640.0	4.4
30°-40°	2732.2	7.4
40°-50°	5082.3	13.7
50°-60°	8159.9	22.0
60°-70°	10975.4	29.5
70°-80°	6511.9	17.5
80°-90°	503.3	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°	37145.0	100.0
0°-180°	37145.0	100.0

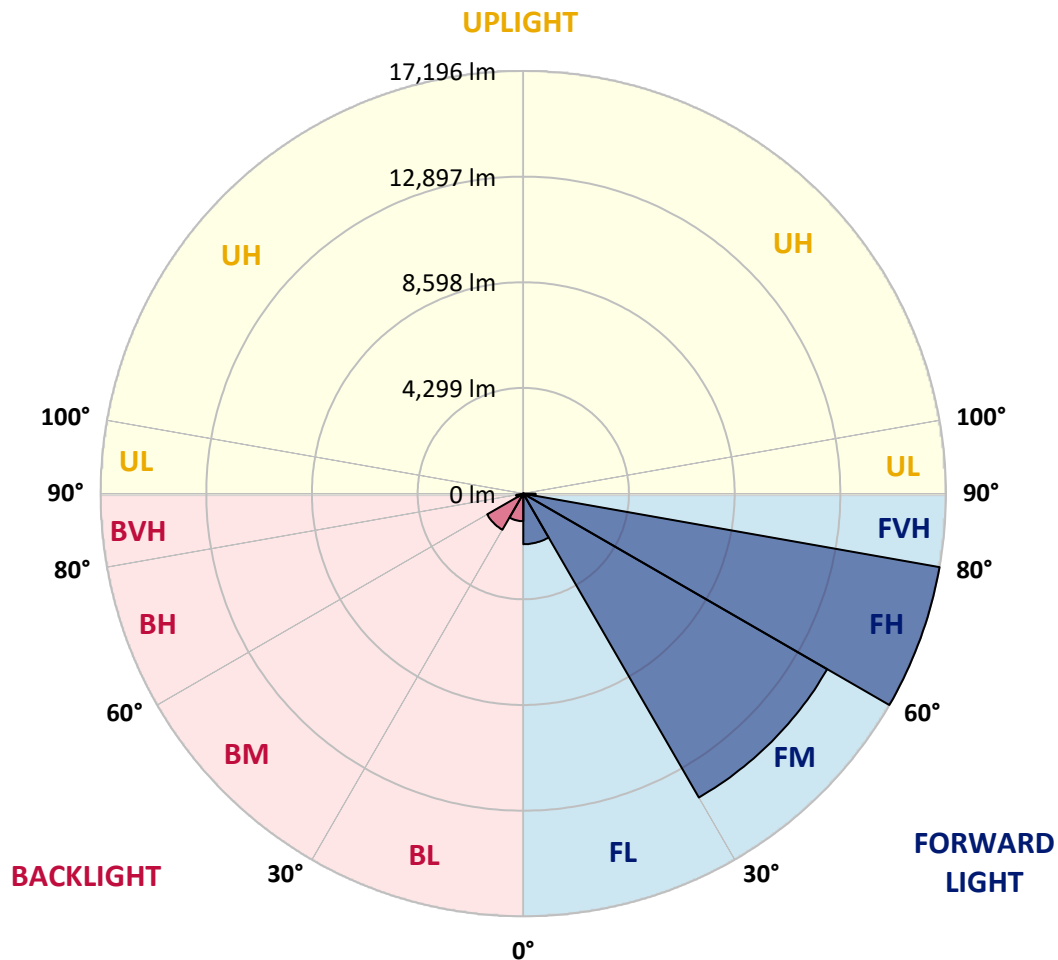


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2058.8	5.5			
FM (30°-60°)	14277.2	38.4			
FH (60°-80°)	17196.3	46.3			G5
FVH (80°-90°)	501.4	1.3			G4/750
BL (0°-30°)	1121.1	3.0	B3/2500		
BM (30°-60°)	1697.3	4.6	B2/2500		
BH (60°-80°)	291.0	0.8	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	5973.5	5973.5	5973.5	5973.5	5973.5	5973.5	5973.5	5973.5	5973.5	5973.5	5973.5
2.5°	5540.1	5597.1	5588.6	5608.5	5657.0	5677.0	5731.1	5791.0	5873.7	5930.7	5967.8
5°	4961.3	5004.1	5009.8	5109.5	5158.0	5212.2	5371.9	5545.8	5739.7	5893.7	5996.3
7.5°	4342.5	4365.4	4411.0	4542.1	4664.7	4718.9	4961.3	5263.5	5568.6	5856.6	6041.9
10°	3832.2	3857.8	3940.5	4080.2	4194.3	4265.6	4602.0	4981.2	5408.9	5836.6	6107.5
12.5°	3541.3	3555.6	3586.9	3712.4	3857.8	3934.8	4296.9	4730.3	5280.6	5845.2	6218.7
15°	3521.4	3515.7	3478.6	3529.9	3661.1	3740.9	4094.5	4559.2	5166.6	5873.7	6349.9
17.5°	3626.9	3612.6	3524.2	3524.2	3632.6	3698.2	4008.9	4468.0	5109.5	5939.3	6535.2
20°	3789.4	3766.6	3621.2	3609.8	3715.3	3783.7	4060.3	4473.7	5121.0	6061.9	6783.3
22.5°	3994.7	3969.0	3749.5	3755.2	3869.2	3937.7	4208.5	4576.4	5192.2	6213.0	7048.4
25°	4262.7	4234.2	3974.7	3963.3	4083.1	4143.0	4428.1	4758.8	5292.0	6401.2	7396.3
27.5°	4619.1	4559.2	4248.5	4231.3	4359.7	4436.6	4693.3	5004.1	5468.8	6660.7	7863.9
30°	4912.8	4847.2	4550.7	4505.1	4641.9	4701.8	4967.0	5334.8	5816.7	7114.0	8511.2
32.5°	5297.7	5200.8	4852.9	4733.2	4878.6	4955.6	5363.3	5950.7	6332.8	7593.0	9281.0
35°	6164.5	6104.7	5679.8	5260.7	5252.1	5349.1	5947.8	6572.3	6863.1	8340.1	10330.3
37.5°	7404.9	7362.1	6911.6	6349.9	6187.3	6141.7	6657.8	7256.6	7709.9	9366.6	11550.7
40°	8844.8	8745.0	8331.5	7855.4	7644.4	7510.4	7496.1	8274.5	8816.3	10760.8	12822.3
42.5°	9876.9	9694.5	9192.6	9158.4	9112.8	8973.1	8568.2	9762.9	10244.8	12260.6	14182.4
45°	10960.4	10683.9	9936.8	9808.5	9791.4	9782.8	10187.7	11525.0	11801.6	13885.9	15579.6
47.5°	11801.6	11582.0	10969.0	10912.0	10983.2	11177.1	12329.1	13395.5	13338.4	15334.3	16751.5
50°	12922.1	12756.8	12075.3	12183.7	12551.5	12868.0	14744.1	15434.1	14601.6	16474.9	17604.0
52.5°	14245.1	13940.1	13307.1	13600.8	14165.3	14692.8	17307.5	17219.1	15488.3	17333.1	18239.8
55°	15391.4	15174.7	14958.0	15263.1	16107.1	16765.7	19622.7	18556.3	16132.7	18023.1	18519.3
57.5°	17330.3	17278.9	17056.5	17367.3	18391.0	19075.3	21695.6	19594.2	16546.2	18382.4	18191.4
60°	20198.7	20116.0	19702.6	20098.9	21433.3	22508.2	23606.0	20526.6	16640.3	18242.7	17247.6
62.5°	23648.8	23366.5	23012.9	23597.4	25428.0	25901.3	25405.2	21079.7	16289.5	17130.7	14972.2
65°	26870.8	26579.9	26588.5	27820.2	29813.3	30135.5	27503.7	20997.1	15263.1	14344.9	11043.1
67.5°	29337.1	29288.7	29636.5	32040.2	34646.3	34423.9	29379.9	19759.6	12220.7	9298.1	5868.0
70°	29462.6	29556.7	30554.6	34612.1	37258.1	36904.5	29220.2	16061.4	7618.7	4277.0	2312.4
71°	27945.7	28578.7	29958.7	34532.2	37412.0	36953.0	27874.4	13452.5	5588.6	2982.5	1668.0
72.5°	23814.1	24147.8	27130.2	32499.2	36194.5	35213.7	24461.4	9429.3	3578.4	1824.8	958.0
75°	13116.0	13937.2	18168.6	25496.4	28949.4	28088.3	15941.7	4479.4	1784.9	998.0	396.3
77.5°	6244.4	6084.7	8864.7	15163.3	19628.4	19582.8	8032.1	1990.2	1040.7	675.8	199.6
80°	1784.9	2007.3	3393.1	7208.1	10897.7	11017.5	3085.1	960.9	721.4	527.5	102.6
82.5°	538.9	550.3	1246.0	3187.8	5420.3	5109.5	1157.6	490.4	518.9	419.1	59.9
85°	94.1	116.9	367.8	1123.4	2067.2	1568.2	290.8	233.8	342.2	276.6	34.2
87.5°	5.7	8.6	122.6	128.3	182.5	105.5	51.3	34.2	74.1	74.1	20.0
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°	5973.5	5973.5	5973.5	5973.5	5973.5	5973.5	5973.5	5973.5	5973.5	5973.5	5973.5
2.5°	5993.5	6010.6	5999.2	5973.5	5930.7	5879.4	5811.0	5753.9	5705.5	5679.8	5711.2
5°	6030.5	6053.3	5996.3	5868.0	5674.1	5463.1	5223.6	5038.3	4892.8	4847.2	4830.1
7.5°	6087.5	6101.8	5947.8	5662.7	5252.1	4753.1	4316.9	3949.1	3663.9	3578.4	3452.9
10°	6161.7	6153.1	5862.3	5332.0	4610.6	3860.7	3184.9	2683.1	2303.9	2167.0	2155.6
12.5°	6275.7	6230.1	5753.9	4881.4	3846.4	2865.6	2030.1	1588.2	1348.7	1268.8	1251.7
15°	6418.3	6310.0	5582.9	4354.0	2945.4	1850.5	1251.7	1117.7	1086.3	1080.6	1074.9
17.5°	6586.5	6415.4	5357.6	3706.7	2070.1	1200.4	1046.4	1043.6	1046.4	1040.7	1037.9
20°	6814.6	6526.7	5089.6	2939.7	1368.6	1012.2	998.0	998.0	1000.8	998.0	998.0
22.5°	7057.0	6657.8	4758.8	2244.0	1032.2	960.9	958.0	963.7	969.4	966.6	966.6
25°	7356.4	6828.9	4322.6	1536.9	923.8	918.1	921.0	932.4	943.8	946.6	943.8
27.5°	7789.8	7039.9	3855.0	1057.8	846.8	852.5	881.1	909.6	926.7	929.5	929.5
30°	8277.4	7273.7	3244.8	858.2	784.1	784.1	818.3	872.5	909.6	915.3	918.1
32.5°	8904.6	7544.6	2569.0	772.7	724.2	718.5	749.9	815.5	883.9	903.9	903.9
35°	9680.2	7863.9	1910.4	718.5	681.5	667.2	684.3	738.5	826.9	883.9	889.6
37.5°	10589.8	8166.2	1397.1	670.1	641.5	621.6	633.0	675.8	747.0	832.6	855.4
40°	11430.9	8434.2	1043.6	630.1	601.6	587.4	595.9	615.9	675.8	755.6	769.9
42.5°	12349.0	8642.3	829.7	587.4	561.7	556.0	556.0	564.6	604.5	650.1	653.0
45°	13264.3	8716.5	695.7	536.0	518.9	524.6	521.8	516.1	533.2	527.5	527.5
47.5°	13917.2	8628.1	576.0	487.6	487.6	496.1	481.9	461.9	453.4	419.1	422.0
50°	14364.9	8305.9	473.3	430.5	453.4	464.8	436.3	404.9	373.5	336.5	327.9
52.5°	14550.2	7732.8	387.8	356.4	402.0	416.3	382.1	345.0	296.5	265.2	256.6
55°	14430.5	7025.6	322.2	290.8	339.3	356.4	322.2	279.4	225.3	191.0	185.3
57.5°	13903.0	6181.6	273.7	231.0	270.9	282.3	259.5	213.8	159.7	125.5	125.5
60°	12990.6	5309.1	222.4	182.5	202.4	219.6	196.7	154.0	108.3	77.0	71.3
62.5°	11140.1	4311.2	179.6	142.6	142.6	156.8	136.9	111.2	68.4	39.9	37.1
65°	8043.5	2956.8	142.6	105.5	102.6	102.6	85.5	74.1	39.9	17.1	11.4
67.5°	4371.1	1668.0	114.1	79.8	71.3	68.4	54.2	42.8	17.1	2.9	0.0
70°	1719.3	641.5	88.4	54.2	45.6	42.8	28.5	20.0	11.4	0.0	0.0
71°	1166.2	442.0	77.0	45.6	37.1	31.4	22.8	17.1	8.6	0.0	0.0
72.5°	667.2	273.7	59.9	34.2	28.5	22.8	17.1	11.4	8.6	0.0	0.0
75°	290.8	139.7	37.1	25.7	20.0	14.3	11.4	8.6	2.9	0.0	0.0
77.5°	148.3	77.0	25.7	20.0	11.4	8.6	5.7	2.9	0.0	0.0	0.0
80°	82.7	39.9	17.1	11.4	8.6	5.7	2.9	2.9	0.0	0.0	0.0
82.5°	45.6	22.8	8.6	5.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	28.5	14.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.3	5.7	0.0	0.0	0.0	0.0	2.9	2.9	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)