

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: P458159

Luminaire Tested: **GALN-SA9C-740-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458159
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49900 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

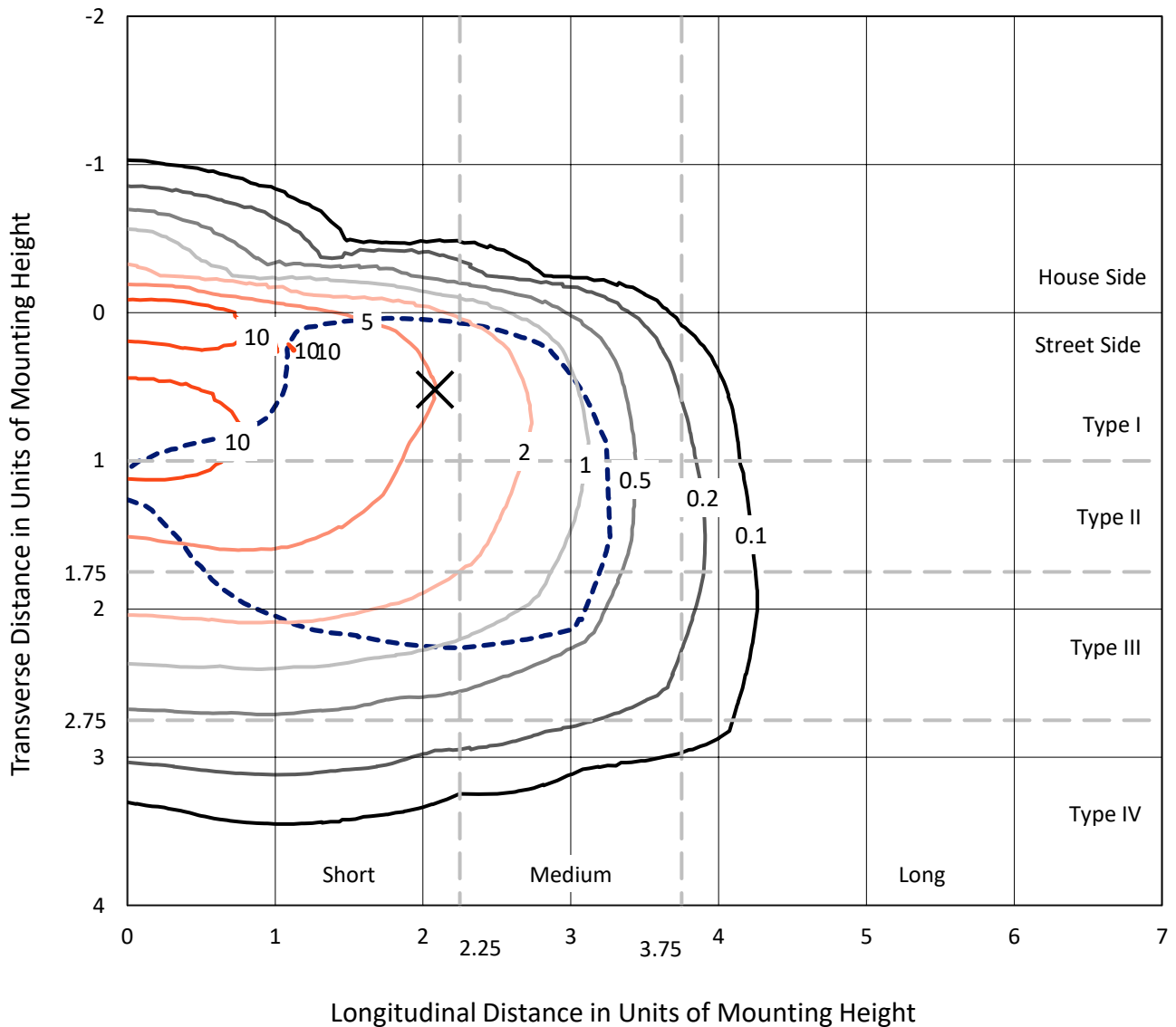
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

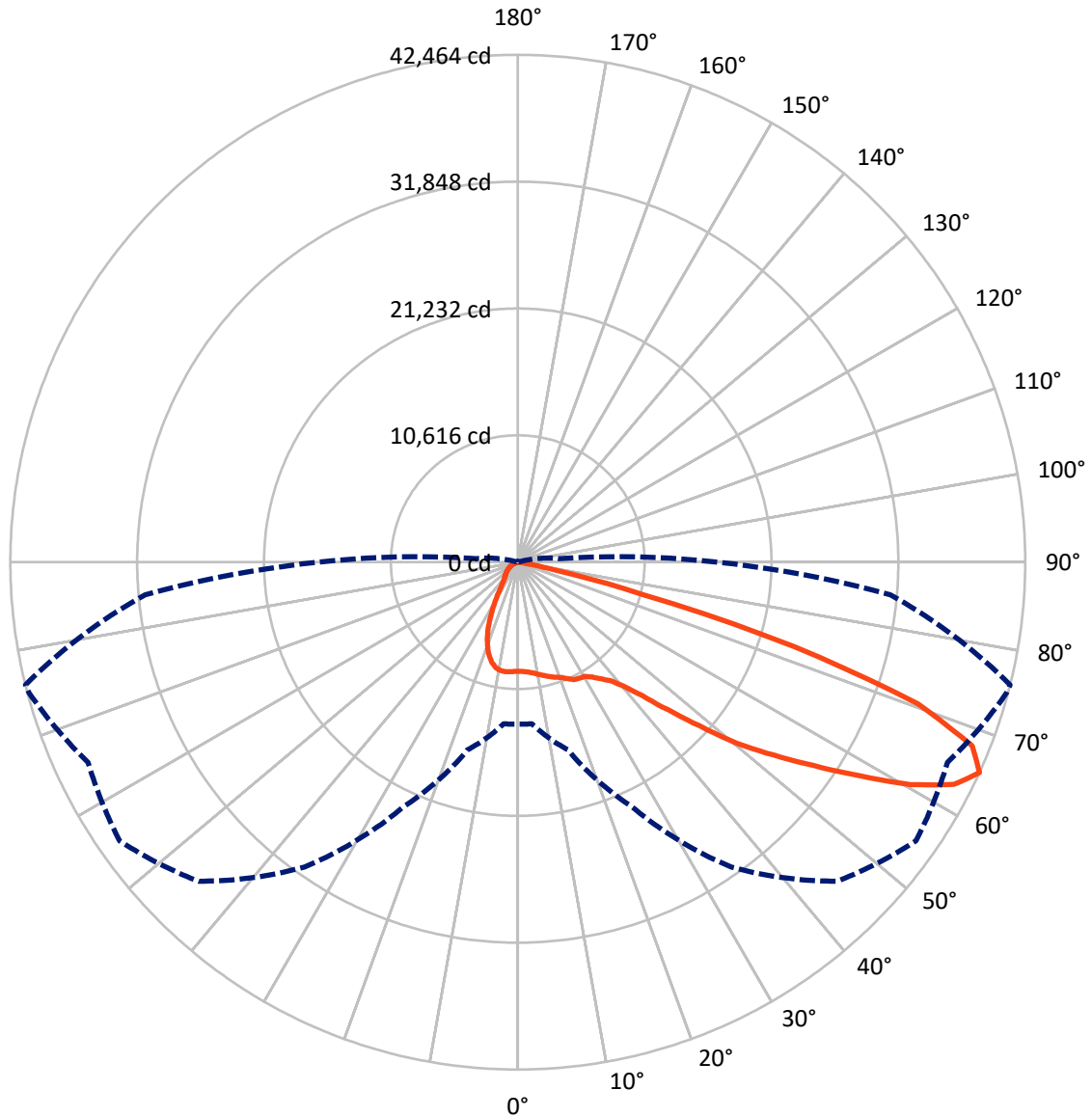
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3603.8	0.0	3603.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	46296.2	0.0	46296.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	49900.0	0.0	49900.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	751.9	1.5
10°-20°	1674.3	3.4
20°-30°	2698.0	5.4
30°-40°	4691.1	9.4
40°-50°	7751.8	15.5
50°-60°	11974.9	24.0
60°-70°	14623.0	29.3
70°-80°	5549.8	11.1
80°-90°	185.2	0.4
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°	49900.0	100.0
0°-180°	49900.0	100.0

Coefficient of Utilization

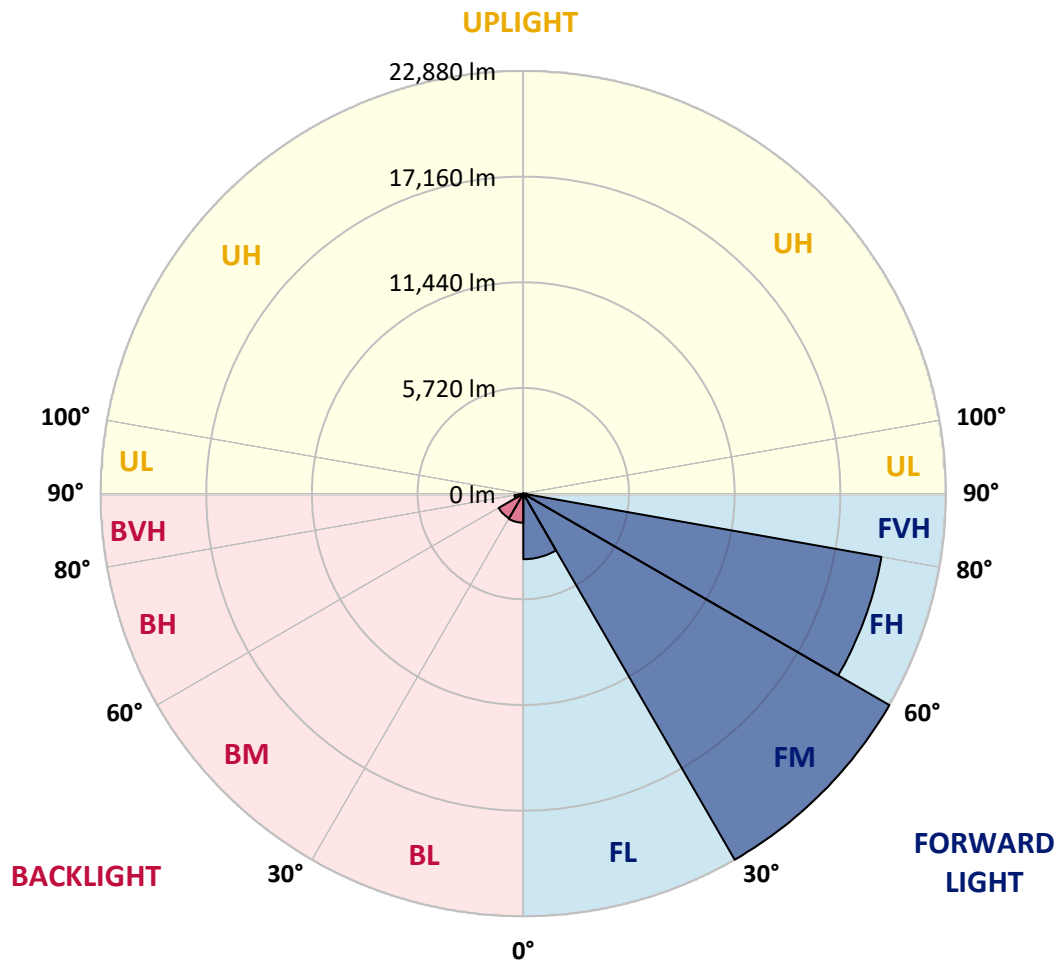


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3549.8	7.1			
FM	(30°-60°)	22879.9	45.9			
FH	(60°-80°)	19683.9	39.4			G5
FVH	(80°-90°)	182.7	0.4			G2/225
BL	(0°-30°)	1574.4	3.2	B3/2500		
BM	(30°-60°)	1537.8	3.1	B2/2500		
BH	(60°-80°)	489.0	1.0	B1/500		G1/500
BVH	(80°-90°)	2.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	9128.3	9128.3	9128.3	9128.3	9128.3	9128.3	9128.3	9128.3	9128.3	9128.3	9128.3
2.5°	8723.1	8726.7	8747.8	8800.7	8881.7	8948.6	9005.0	9096.6	9160.0	9167.1	9188.2
5°	8120.7	8078.4	8120.7	8258.1	8381.4	8568.1	8797.1	9026.1	9230.5	9244.6	9343.2
7.5°	7444.3	7479.5	7546.4	7687.4	7919.9	8205.3	8536.4	8945.1	9332.6	9367.9	9561.6
10°	6757.3	6834.8	6944.0	7158.9	7483.0	7852.9	8303.9	8888.7	9494.7	9544.0	9878.7
12.5°	6123.1	6158.3	6292.2	6581.1	6982.7	7504.2	8127.7	8857.0	9674.4	9734.3	10216.9
15°	5636.9	5682.7	5799.0	6059.7	6507.1	7176.5	7983.3	8846.5	9850.5	9935.1	10555.2
17.5°	5545.3	5573.5	5622.8	5799.0	6190.1	6915.8	7852.9	8842.9	10019.6	10121.8	10868.7
20°	5922.3	5897.6	5848.3	5830.7	6045.6	6715.0	7757.8	8871.1	10181.7	10298.0	11199.9
22.5°	6866.5	6898.2	6609.3	6267.6	6197.1	6683.3	7743.7	9005.0	10438.9	10576.3	11569.8
25°	8871.1	8628.0	8177.1	7359.7	6743.2	6877.1	7902.3	9322.1	10738.4	10889.8	11904.5
27.5°	11087.1	11013.2	10312.1	8966.2	7817.7	7285.7	8184.1	9565.2	10837.0	10992.0	12094.7
30°	13264.4	13352.5	12549.2	11062.5	9378.4	8043.2	8448.3	9656.8	10925.1	11087.1	12337.8
32.5°	15283.1	15388.8	14684.2	13211.6	11217.5	9353.8	8902.8	10012.6	11295.0	11460.6	12743.0
35°	16872.0	16886.1	16354.1	15181.0	13225.6	10946.2	9885.8	10636.2	11795.3	11989.0	13172.8
37.5°	18330.6	18309.5	17685.9	16674.7	14899.1	12528.1	11122.4	11354.9	12366.0	12566.8	13792.9
40°	19412.2	19426.3	19225.5	18274.2	16459.8	13990.2	12101.8	12027.8	13324.3	13637.8	14694.8
42.5°	20134.4	20264.8	20363.4	19880.7	18422.2	15790.4	13606.1	13468.7	14987.2	15247.9	15970.1
45°	20719.2	20951.8	21445.0	21420.3	20307.0	17999.4	15670.7	15388.8	17344.1	17622.5	17594.3
47.5°	21145.5	21381.6	22198.9	22692.2	22079.1	20141.5	18267.2	18024.1	20159.1	20462.1	19387.5
50°	21364.0	21645.8	22688.6	23643.4	23463.7	22206.0	21226.6	21240.7	23558.8	23851.3	21466.1
52.5°	20853.1	21219.5	22949.3	24668.6	25017.4	24182.4	23999.2	24464.3	26585.2	26835.3	23343.9
55°	19221.9	19683.5	22593.5	25542.3	26817.7	26514.7	27148.9	27857.0	29893.3	30055.4	25271.1
57.5°	18189.7	18679.4	21543.6	26285.7	28980.9	29445.9	30450.0	30967.9	33307.2	33719.4	27483.6
60°	17319.5	17703.5	20680.5	26444.2	31179.3	33032.4	34008.3	34543.8	37520.8	37788.6	29918.0
62.5°	15871.5	16311.9	19221.9	25338.0	32285.5	35903.7	37926.0	37686.4	40779.7	40966.4	31411.8
65°	13542.7	13581.5	16262.5	22558.3	31144.0	37767.4	40677.5	39673.4	42336.9	42463.7	31295.5
67.5°	10107.7	10481.2	12510.5	17731.7	26306.8	36175.0	41568.8	39726.3	41353.9	41001.6	28811.8
70°	6510.7	6796.0	8480.1	12295.6	18968.3	30189.3	38613.0	37002.9	36294.8	35512.7	23583.5
72.5°	3005.2	3371.6	5038.0	7025.0	11249.2	21504.9	31344.9	30062.4	26123.6	24193.0	14990.7
75°	1310.6	1402.2	2487.3	3706.3	5274.1	11372.5	20666.4	18661.8	11798.8	10777.1	5999.8
77.5°	799.7	859.6	1303.5	1987.0	2071.6	4333.4	11132.9	8141.8	3646.4	3216.6	1627.7
80°	542.6	609.5	947.7	1039.3	708.1	1208.4	4178.4	2173.7	736.3	704.6	348.8
82.5°	264.2	334.7	701.1	581.3	306.5	387.5	1215.5	465.0	214.9	200.8	123.3
85°	38.8	66.9	394.6	380.5	137.4	91.6	214.9	116.3	74.0	70.5	56.4
87.5°	0.0	0.0	133.9	59.9	14.1	14.1	24.7	24.7	28.2	24.7	28.2
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°	9128.3	9128.3	9128.3	9128.3	9128.3	9128.3	9128.3	9128.3	9128.3	9128.3	9128.3
2.5°	9198.8	9216.4	9149.4	9054.3	8952.1	8850.0	8705.5	8575.2	8497.7	8543.5	8430.7
5°	9364.3	9350.3	9174.1	8885.2	8501.2	8039.7	7581.7	7190.6	7063.8	6873.5	6852.4
7.5°	9593.3	9554.6	9181.1	8518.8	7652.1	6785.5	5939.9	5379.7	5059.1	4787.9	4794.9
10°	9913.9	9801.2	9100.1	7874.1	6447.2	5140.2	4062.1	3322.3	3001.7	2899.5	2818.5
12.5°	10245.1	10026.7	8874.6	7003.9	5020.4	3512.5	2469.7	2018.7	1821.4	1758.0	1751.0
15°	10541.1	10195.8	8480.1	5957.5	3649.9	2244.2	1684.0	1536.1	1511.4	1514.9	1511.4
17.5°	10833.5	10329.7	7934.0	4847.8	2480.2	1610.0	1448.0	1412.8	1423.3	1437.4	1433.9
20°	11076.6	10357.9	7236.4	3699.2	1754.5	1412.8	1359.9	1352.9	1363.4	1374.0	1374.0
22.5°	11340.8	10379.0	6408.5	2561.3	1433.9	1314.1	1285.9	1285.9	1300.0	1314.1	1317.6
25°	11538.1	10262.7	5418.5	1839.0	1264.8	1219.0	1204.9	1208.4	1222.5	1229.6	1226.0
27.5°	11569.8	9935.1	4368.6	1409.2	1148.5	1102.7	1088.6	1102.7	1085.1	1095.7	1088.6
30°	11598.0	9519.4	3304.6	1187.3	1042.8	972.4	951.2	930.1	916.0	898.4	894.9
32.5°	11686.1	9029.7	2413.3	1067.5	944.2	866.7	817.4	757.5	711.7	697.6	694.0
35°	11724.8	8441.3	1772.1	972.4	856.1	771.6	683.5	598.9	532.0	507.3	524.9
37.5°	11872.8	7870.6	1374.0	901.9	778.6	672.9	560.2	454.5	391.1	377.0	384.0
40°	12175.8	7250.5	1152.0	842.0	711.7	581.3	443.9	341.7	299.5	285.4	281.8
42.5°	12662.0	6634.0	1025.2	785.6	644.7	489.7	348.8	267.8	232.5	222.0	222.0
45°	13253.8	6042.1	937.1	725.8	574.3	394.6	274.8	214.9	193.8	186.7	186.7
47.5°	14032.4	5524.2	863.2	665.9	496.8	313.6	222.0	186.7	172.6	176.2	179.7
50°	14821.6	5140.2	782.1	598.9	408.7	257.2	190.2	165.6	162.1	165.6	165.6
52.5°	15417.0	4914.7	672.9	507.3	320.6	214.9	169.1	155.0	151.5	144.4	144.4
55°	16220.3	4865.4	535.5	412.2	253.7	179.7	151.5	140.9	130.4	123.3	119.8
57.5°	17252.5	4921.7	412.2	320.6	197.3	148.0	133.9	116.3	102.2	88.1	88.1
60°	17893.7	4794.9	320.6	246.6	144.4	119.8	102.2	84.6	66.9	56.4	52.8
62.5°	17689.4	4259.4	253.7	183.2	102.2	88.1	66.9	56.4	38.8	28.2	24.7
65°	16636.0	3438.5	204.3	126.8	74.0	52.8	35.2	35.2	17.6	3.5	0.0
67.5°	14560.9	2547.2	162.1	84.6	42.3	24.7	17.6	10.6	0.0	0.0	0.0
70°	11851.6	1839.0	126.8	52.8	24.7	17.6	7.0	3.5	0.0	0.0	0.0
72.5°	7525.3	1053.4	98.6	31.7	17.6	7.0	0.0	0.0	0.0	0.0	0.0
75°	2910.1	412.2	66.9	21.1	7.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	824.4	193.8	38.8	10.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	214.9	84.6	21.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	102.2	35.2	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	59.9	14.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	28.2	3.5	0.0	0.0	0.0	0.0	0.0	0.0	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)