

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: P456972

Luminaire Tested: **GALN-SA8B-730-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456972
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-SA8B-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 30133 lumens
Efficiency: N/A
Efficacy: 92.7 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

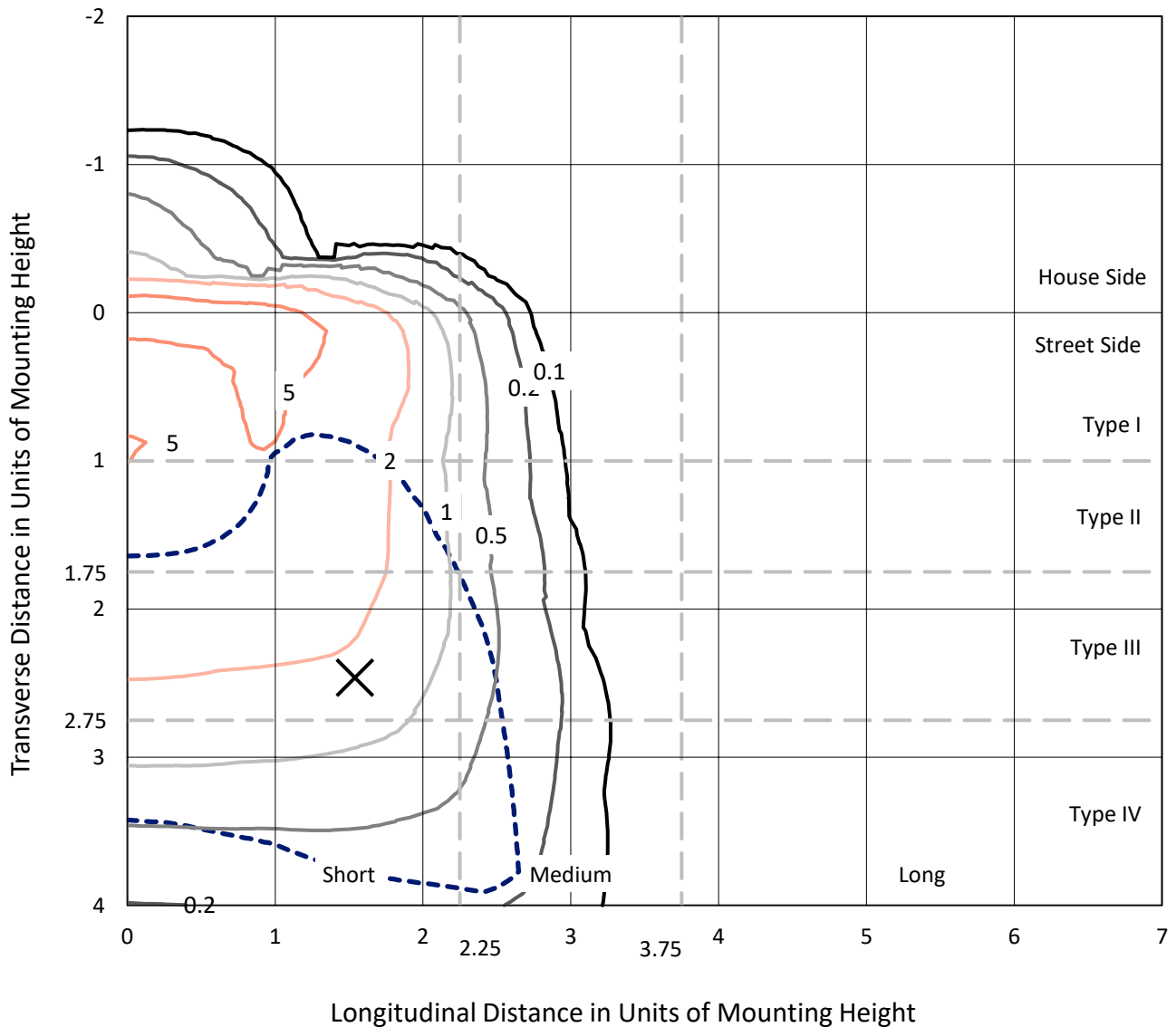
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

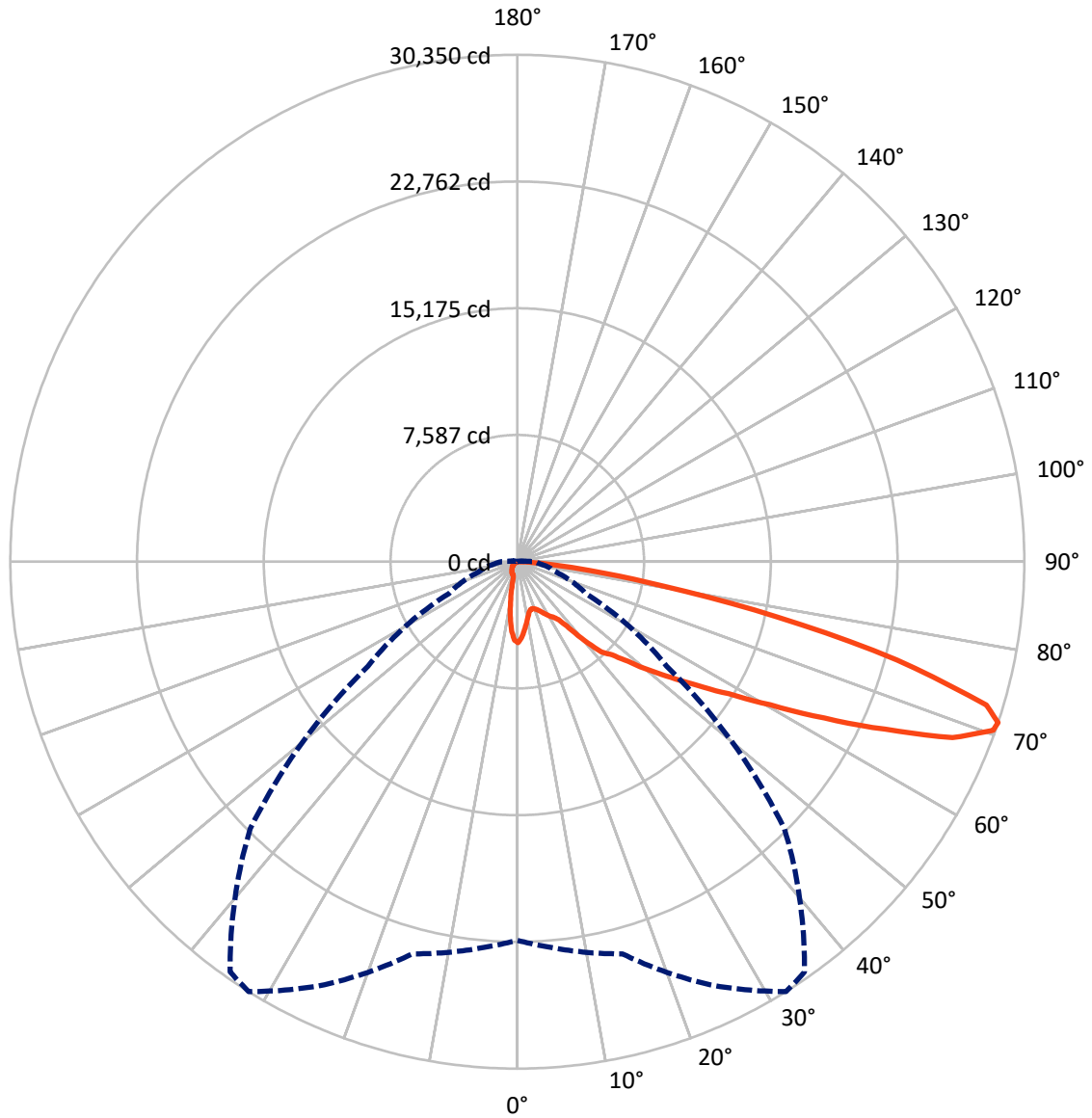
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	2524.0	0.0	2524.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	27609.0	0.0	27609.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	30133.0	0.0	30133.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.0	1.3
10°-20°	855.2	2.8
20°-30°	1330.4	4.4
30°-40°	2216.4	7.4
40°-50°	4122.9	13.7
50°-60°	6619.5	22.0
60°-70°	8903.6	29.5
70°-80°	5282.6	17.5
80°-90°	408.3	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°	30133.0	100.0
0°-180°	30133.0	100.0

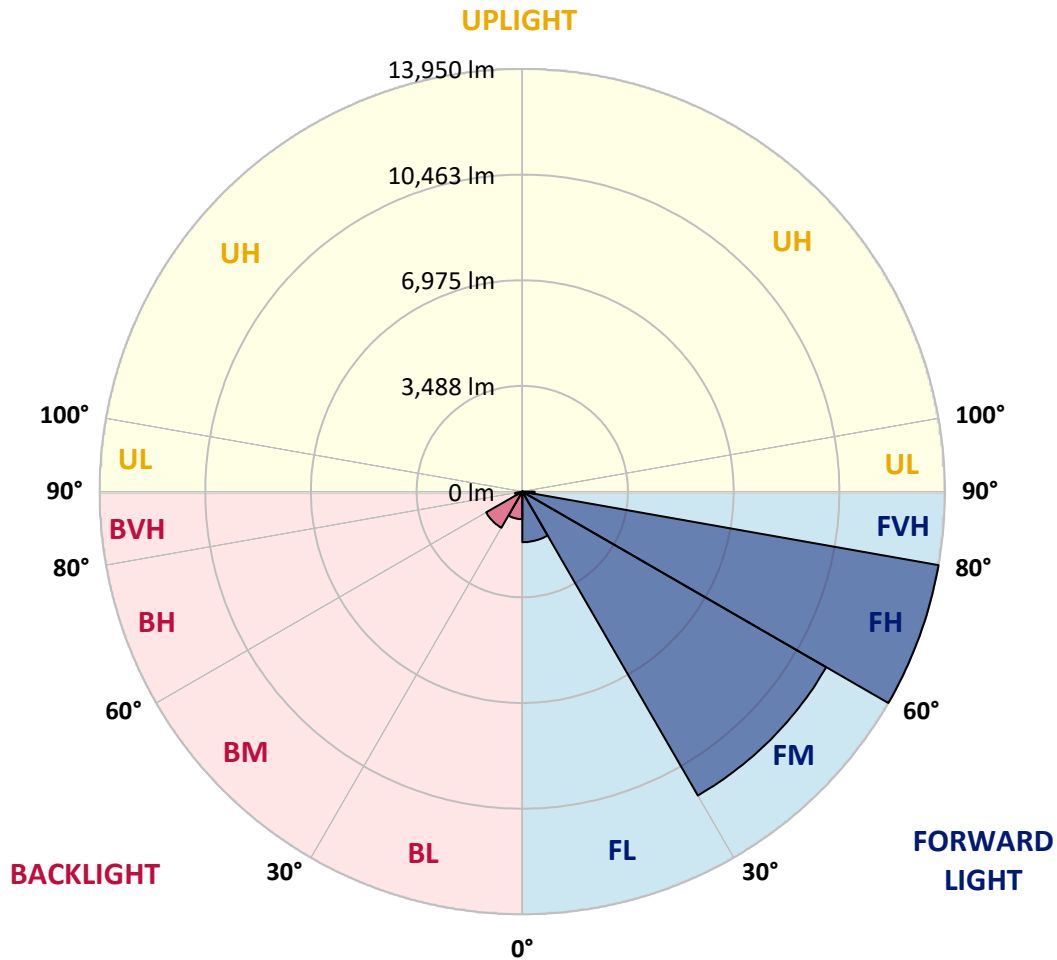


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1670.2	5.5			
FM	(30°-60°)	11582.0	38.4			
FH	(60°-80°)	13950.1	46.3			G5
FVH	(80°-90°)	406.7	1.3			G3/500
BL	(0°-30°)	909.4	3.0	B2/1000		
BM	(30°-60°)	1376.9	4.6	B2/2500		
BH	(60°-80°)	236.1	0.8	B1/500		G1/500
BVH	(80°-90°)	1.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	4845.9	4845.9	4845.9	4845.9	4845.9	4845.9	4845.9	4845.9	4845.9	4845.9	4845.9
2.5°	4494.3	4540.5	4533.6	4549.8	4589.1	4605.3	4649.2	4697.8	4764.9	4811.2	4841.2
5°	4024.7	4059.4	4064.0	4145.0	4184.3	4228.3	4357.8	4498.9	4656.2	4781.1	4864.4
7.5°	3522.8	3541.3	3578.3	3684.7	3784.2	3828.1	4024.7	4269.9	4517.4	4751.0	4901.4
10°	3108.8	3129.6	3196.6	3310.0	3402.5	3460.3	3733.3	4040.9	4387.9	4734.8	4954.6
12.5°	2872.8	2884.4	2909.8	3011.6	3129.6	3192.0	3485.8	3837.4	4283.8	4741.8	5044.8
15°	2856.6	2852.0	2821.9	2863.6	2970.0	3034.7	3321.6	3698.6	4191.3	4764.9	5151.2
17.5°	2942.2	2930.6	2858.9	2858.9	2946.8	3000.0	3252.2	3624.6	4145.0	4818.1	5301.5
20°	3074.1	3055.5	2937.6	2928.3	3013.9	3069.4	3293.8	3629.2	4154.3	4917.6	5502.8
22.5°	3240.6	3219.8	3041.7	3046.3	3138.8	3194.3	3414.1	3712.5	4212.1	5040.2	5717.9
25°	3458.0	3434.9	3224.4	3215.2	3312.3	3360.9	3592.2	3860.5	4293.0	5192.8	6000.1
27.5°	3747.2	3698.6	3446.5	3432.6	3536.7	3599.1	3807.3	4059.4	4436.4	5403.3	6379.4
30°	3985.4	3932.2	3691.6	3654.6	3765.7	3814.2	4029.3	4327.7	4718.6	5771.1	6904.5
32.5°	4297.7	4219.0	3936.8	3839.7	3957.6	4020.1	4350.9	4827.4	5137.3	6159.7	7529.0
35°	5000.8	4952.3	4607.6	4267.6	4260.7	4339.3	4825.0	5331.6	5567.5	6765.7	8380.2
37.5°	6007.0	5972.3	5606.9	5151.2	5019.3	4982.3	5401.0	5886.7	6254.5	7598.4	9370.2
40°	7175.1	7094.1	6758.8	6372.5	6201.3	6092.6	6081.0	6712.5	7152.0	8729.5	10401.8
42.5°	8012.4	7864.4	7457.3	7429.5	7392.5	7279.2	6950.7	7919.9	8310.8	9946.2	11505.2
45°	8891.4	8667.0	8061.0	7956.9	7943.0	7936.1	8264.6	9349.4	9573.7	11264.6	12638.6
47.5°	9573.7	9395.6	8898.3	8852.1	8909.9	9067.2	10001.7	10866.7	10820.5	12439.6	13589.2
50°	10482.8	10348.6	9795.8	9883.7	10182.1	10438.8	11960.8	12520.6	11845.2	13364.9	14280.8
52.5°	11556.0	11308.5	10795.0	11033.3	11491.3	11919.2	14040.3	13968.6	12564.5	14061.1	14796.6
55°	12485.9	12310.1	12134.3	12381.8	13066.5	13600.8	15918.5	15053.4	13087.3	14620.8	15023.3
57.5°	14058.8	14017.1	13836.7	14088.8	14919.2	15474.4	17600.1	15895.3	13422.7	14912.3	14757.3
60°	16385.7	16318.6	15983.2	16304.7	17387.3	18259.3	19149.8	16651.7	13499.0	14798.9	13991.7
62.5°	19184.5	18955.5	18668.7	19142.9	20627.9	21011.8	20609.3	17100.4	13214.5	13896.9	12145.9
65°	21798.3	21562.3	21569.3	22568.5	24185.3	24446.7	22311.8	17033.4	12381.8	11637.0	8958.5
67.5°	23799.1	23759.7	24041.9	25991.8	28106.0	27925.6	23833.8	16029.5	9913.8	7542.9	4760.3
70°	23900.8	23977.2	24786.7	28078.2	30224.7	29937.9	23704.2	13029.5	6180.5	3469.6	1875.9
71°	22670.3	23183.8	24303.3	28013.4	30349.6	29977.2	22612.5	10913.0	4533.6	2419.5	1353.1
72.5°	19318.7	19589.3	22008.7	26364.2	29362.0	28566.3	19843.7	7649.3	2902.9	1480.4	777.2
75°	10640.1	11306.2	14738.8	20683.4	23484.5	22785.9	12932.3	3633.8	1448.0	809.6	321.5
77.5°	5065.6	4936.1	7191.3	12300.8	15923.1	15886.1	6515.9	1614.5	844.3	548.2	161.9
80°	1448.0	1628.4	2752.5	5847.4	8840.5	8937.7	2502.7	779.5	585.2	427.9	83.3
82.5°	437.2	446.4	1010.8	2586.0	4397.1	4145.0	939.1	397.8	421.0	340.0	48.6
85°	76.3	94.8	298.4	911.3	1677.0	1272.2	235.9	189.7	277.6	224.4	27.8
87.5°	4.6	6.9	99.5	104.1	148.0	85.6	41.6	27.8	60.1	60.1	16.2
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°	4845.9	4845.9	4845.9	4845.9	4845.9	4845.9	4845.9	4845.9	4845.9	4845.9	4845.9
2.5°	4862.0	4875.9	4866.7	4845.9	4811.2	4769.5	4714.0	4667.8	4628.4	4607.6	4633.1
5°	4892.1	4910.6	4864.4	4760.3	4603.0	4431.8	4237.5	4087.2	3969.2	3932.2	3918.3
7.5°	4938.4	4949.9	4825.0	4593.7	4260.7	3855.9	3502.0	3203.6	2972.3	2902.9	2801.1
10°	4998.5	4991.6	4755.6	4325.4	3740.2	3131.9	2583.7	2176.6	1869.0	1757.9	1748.7
12.5°	5091.0	5054.0	4667.8	3960.0	3120.3	2324.6	1646.9	1288.4	1094.1	1029.3	1015.4
15°	5206.7	5118.8	4529.0	3532.0	2389.4	1501.2	1015.4	906.7	881.3	876.6	872.0
17.5°	5343.2	5204.4	4346.2	3007.0	1679.3	973.8	848.9	846.6	848.9	844.3	842.0
20°	5528.2	5294.6	4128.8	2384.8	1110.3	821.1	809.6	809.6	811.9	809.6	809.6
22.5°	5724.8	5401.0	3860.5	1820.4	837.3	779.5	777.2	781.8	786.4	784.1	784.1
25°	5967.7	5539.8	3506.6	1246.7	749.4	744.8	747.1	756.4	765.6	767.9	765.6
27.5°	6319.3	5710.9	3127.3	858.1	687.0	691.6	714.7	737.9	751.7	754.1	754.1
30°	6714.8	5900.6	2632.3	696.2	636.1	636.1	663.8	707.8	737.9	742.5	744.8
32.5°	7223.7	6120.4	2084.1	626.8	587.5	582.9	608.3	661.5	717.0	733.2	733.2
35°	7852.8	6379.4	1549.7	582.9	552.8	541.3	555.1	599.1	670.8	717.0	721.7
37.5°	8590.7	6624.6	1133.4	543.6	520.4	504.2	513.5	548.2	606.0	675.4	693.9
40°	9273.1	6842.0	846.6	511.2	488.1	476.5	483.4	499.6	548.2	613.0	624.5
42.5°	10017.9	7010.9	673.1	476.5	455.7	451.0	451.0	458.0	490.4	527.4	529.7
45°	10760.3	7071.0	564.4	434.9	421.0	425.6	423.3	418.7	432.5	427.9	427.9
47.5°	11290.0	6999.3	467.2	395.5	395.5	402.5	390.9	374.7	367.8	340.0	342.3
50°	11653.2	6737.9	384.0	349.3	367.8	377.0	353.9	328.5	303.0	272.9	266.0
52.5°	11803.5	6273.0	314.6	289.1	326.1	337.7	309.9	279.9	240.6	215.1	208.2
55°	11706.4	5699.4	261.4	235.9	275.3	289.1	261.4	226.7	182.7	155.0	150.3
57.5°	11278.5	5014.7	222.1	187.4	219.7	229.0	210.5	173.5	129.5	101.8	101.8
60°	10538.3	4306.9	180.4	148.0	164.2	178.1	159.6	124.9	87.9	62.5	57.8
62.5°	9037.1	3497.3	145.7	115.7	115.7	127.2	111.0	90.2	55.5	32.4	30.1
65°	6525.1	2398.6	115.7	85.6	83.3	83.3	69.4	60.1	32.4	13.9	9.3
67.5°	3545.9	1353.1	92.5	64.8	57.8	55.5	43.9	34.7	13.9	2.3	0.0
70°	1394.8	520.4	71.7	43.9	37.0	34.7	23.1	16.2	9.3	0.0	0.0
71°	946.0	358.5	62.5	37.0	30.1	25.4	18.5	13.9	6.9	0.0	0.0
72.5°	541.3	222.1	48.6	27.8	23.1	18.5	13.9	9.3	6.9	0.0	0.0
75°	235.9	113.3	30.1	20.8	16.2	11.6	9.3	6.9	2.3	0.0	0.0
77.5°	120.3	62.5	20.8	16.2	9.3	6.9	4.6	2.3	0.0	0.0	0.0
80°	67.1	32.4	13.9	9.3	6.9	4.6	2.3	2.3	0.0	0.0	0.0
82.5°	37.0	18.5	6.9	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.1	11.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.6	4.6	0.0	0.0	0.0	0.0	2.3	2.3	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)