

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: STREETWORKS

Report Number: P458045

Luminaire Tested: **GLAN-SA9B-830-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458045
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: STREETWORKS
Catalog Number: GLAN-SA9B-830-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 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: 29517 lumens
Efficiency: N/A
Efficacy: 81.1 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

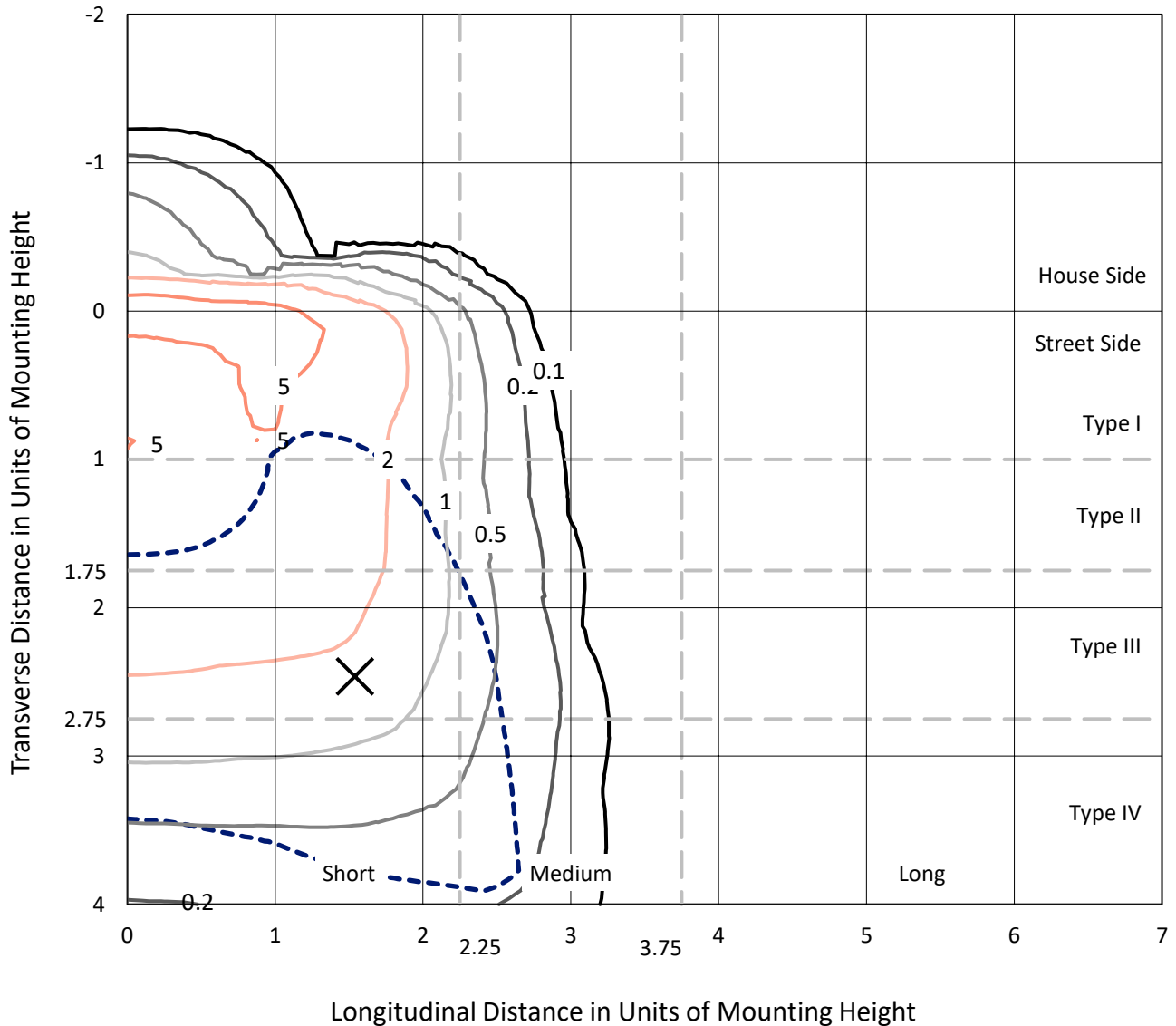
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

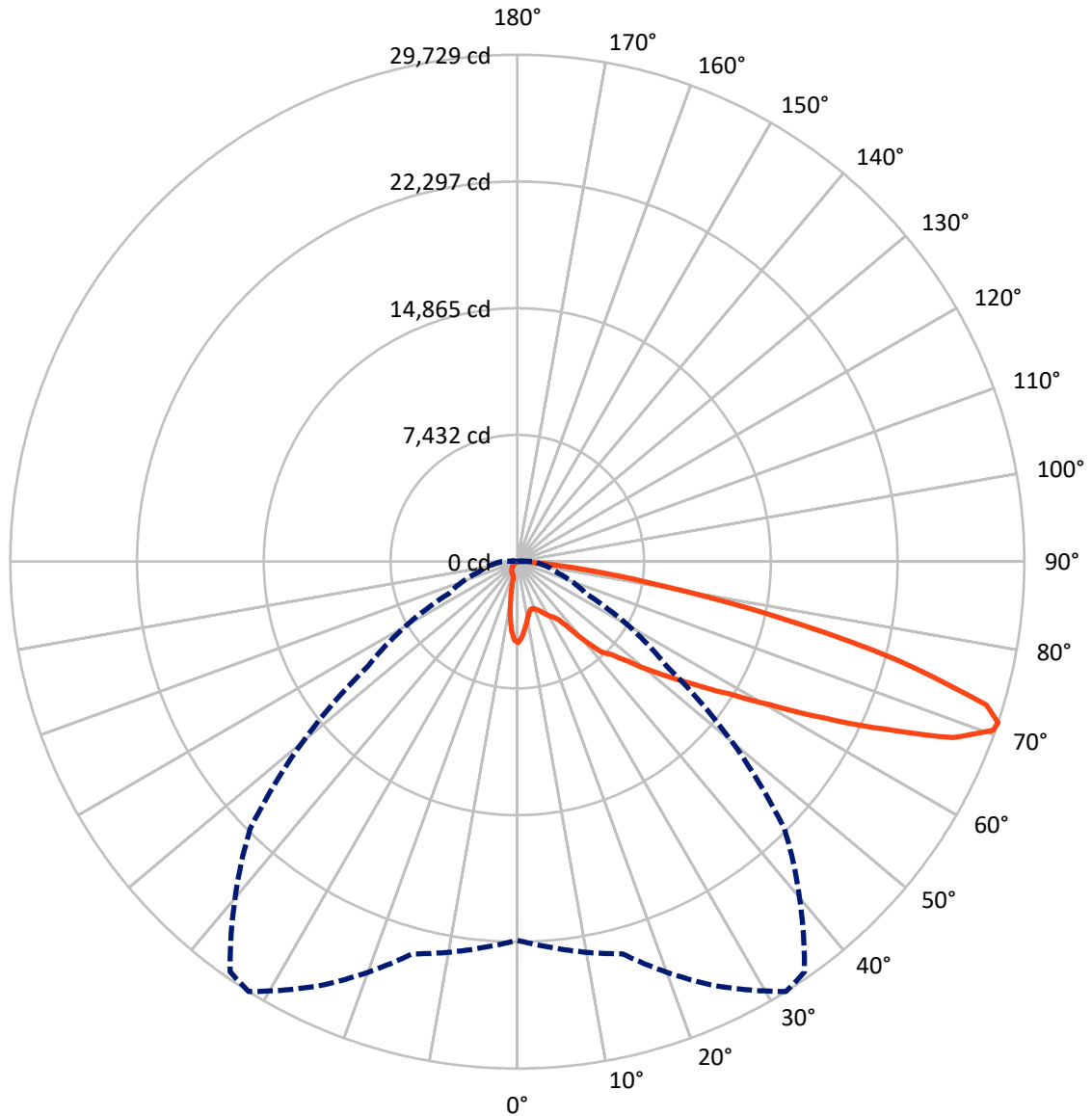
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	2472.4	0.0	2472.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	27044.6	0.0	27044.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	29517.0	0.0	29517.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.0	1.3
10°-20°	837.7	2.8
20°-30°	1303.2	4.4
30°-40°	2171.1	7.4
40°-50°	4038.6	13.7
50°-60°	6484.2	22.0
60°-70°	8721.6	29.5
70°-80°	5174.6	17.5
80°-90°	400.0	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°	29517.0	100.0
0°-180°	29517.0	100.0

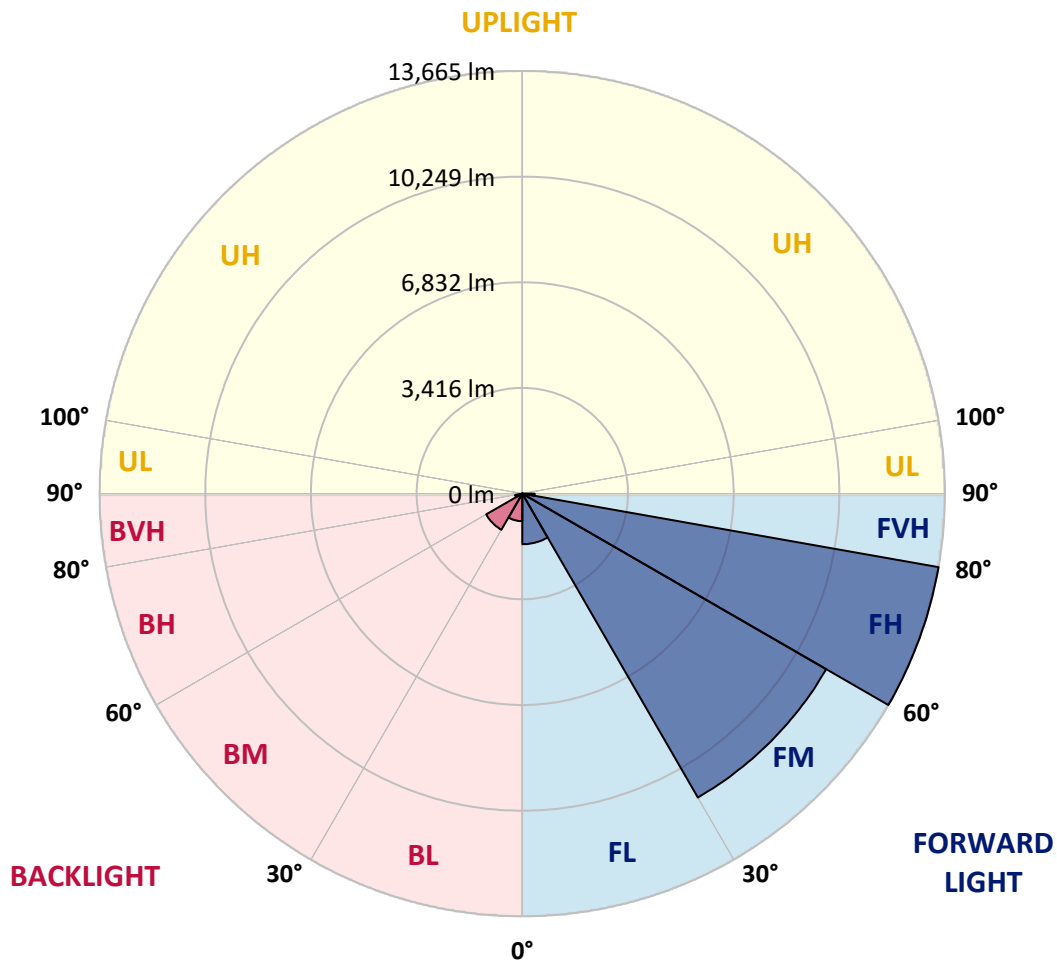


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1636.0	5.5			
FM	(30°-60°)	11345.2	38.4			
FH	(60°-80°)	13664.9	46.3			G5
FVH	(80°-90°)	398.4	1.3			G3/500
BL	(0°-30°)	890.8	3.0	B2/1000		
BM	(30°-60°)	1348.7	4.6	B2/2500		
BH	(60°-80°)	231.2	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°	4746.8	4746.8	4746.8	4746.8	4746.8	4746.8	4746.8	4746.8	4746.8	4746.8	4746.8
2.5°	4402.4	4447.7	4440.9	4456.8	4495.3	4511.2	4554.2	4601.8	4667.5	4712.8	4742.3
5°	3942.4	3976.4	3981.0	4060.3	4098.8	4141.8	4268.7	4406.9	4561.0	4683.4	4764.9
7.5°	3450.8	3468.9	3505.2	3609.4	3706.8	3749.9	3942.4	4182.6	4425.1	4653.9	4801.2
10°	3045.2	3065.6	3131.3	3242.3	3333.0	3389.6	3657.0	3958.3	4298.2	4638.0	4853.3
12.5°	2814.1	2825.4	2850.3	2950.0	3065.6	3126.8	3414.5	3758.9	4196.2	4644.8	4941.7
15°	2798.2	2793.7	2764.2	2805.0	2909.3	2972.7	3253.7	3623.0	4105.6	4667.5	5045.9
17.5°	2882.1	2870.7	2800.5	2800.5	2886.6	2938.7	3185.7	3550.5	4060.3	4719.6	5193.2
20°	3011.2	2993.1	2877.5	2868.5	2952.3	3006.7	3226.5	3555.0	4069.3	4817.0	5390.3
22.5°	3174.3	3154.0	2979.5	2984.0	3074.7	3129.0	3344.3	3636.6	4126.0	4937.1	5601.0
25°	3387.3	3364.7	3158.5	3149.4	3244.6	3292.2	3518.7	3781.6	4205.3	5086.7	5877.4
27.5°	3670.6	3623.0	3376.0	3362.4	3464.4	3525.5	3729.5	3976.4	4345.8	5292.8	6249.0
30°	3903.9	3851.8	3616.2	3579.9	3688.7	3736.3	3947.0	4239.3	4622.2	5653.1	6763.3
32.5°	4209.8	4132.8	3856.3	3761.2	3876.7	3937.9	4261.9	4728.7	5032.3	6033.8	7375.1
35°	4898.6	4851.0	4513.4	4180.4	4173.6	4250.6	4726.4	5222.6	5453.7	6627.4	8208.9
37.5°	5884.2	5850.2	5492.2	5045.9	4916.7	4880.5	5290.6	5766.4	6126.7	7443.1	9178.6
40°	7028.4	6949.1	6620.6	6242.2	6074.5	5968.0	5956.7	6575.3	7005.8	8551.0	10189.2
42.5°	7848.6	7703.6	7304.9	7277.7	7241.4	7130.4	6808.6	7758.0	8140.9	9742.8	11270.0
45°	8709.6	8489.9	7896.2	7794.3	7780.7	7773.9	8095.6	9158.3	9378.0	11034.3	12380.2
47.5°	9378.0	9203.6	8716.4	8671.1	8727.8	8881.8	9797.2	10644.6	10599.3	12185.3	13311.4
50°	10268.5	10137.1	9595.5	9681.6	9973.9	10225.4	11716.3	12264.6	11603.0	13091.6	13988.9
52.5°	11319.8	11077.4	10574.4	10807.7	11256.4	11675.5	13753.2	13683.0	12307.7	13773.6	14494.2
55°	12230.6	12058.4	11886.2	12128.7	12799.4	13322.7	15593.1	14745.7	12819.7	14322.0	14716.2
57.5°	13771.4	13730.6	13553.9	13800.8	14614.2	15158.0	17240.3	15570.4	13148.3	14607.4	14455.6
60°	16050.7	15985.0	15656.5	15971.4	17031.8	17886.0	18758.3	16311.3	13223.1	14496.4	13705.7
62.5°	18792.3	18568.0	18287.1	18751.5	20206.2	20582.3	20188.0	16750.9	12944.4	13612.8	11897.6
65°	21352.6	21121.5	21128.3	22107.1	23690.9	23947.0	21855.6	16685.2	12128.7	11399.1	8775.3
67.5°	23312.5	23274.0	23550.4	25460.5	27531.4	27354.7	23346.5	15701.8	9711.1	7388.7	4663.0
70°	23412.2	23487.0	24280.0	27504.2	29606.9	29325.9	23219.6	12763.1	6054.1	3398.7	1837.5
71°	22206.8	22709.8	23806.5	27440.8	29729.2	29364.4	22150.2	10689.9	4440.9	2370.0	1325.5
72.5°	18923.7	19188.8	21558.8	25825.3	28761.7	27982.3	19438.1	7492.9	2843.5	1450.1	761.3
75°	10422.6	11075.1	14437.5	20260.5	23004.4	22320.1	12667.9	3559.5	1418.4	793.0	314.9
77.5°	4962.0	4835.2	7044.3	12049.4	15597.6	15561.3	6382.7	1581.5	827.0	537.0	158.6
80°	1418.4	1595.1	2696.3	5727.9	8659.8	8754.9	2451.6	763.6	573.2	419.2	81.6
82.5°	428.2	437.3	990.1	2533.1	4307.2	4060.3	919.9	389.7	412.4	333.1	47.6
85°	74.8	92.9	292.3	892.7	1642.7	1246.2	231.1	185.8	271.9	219.8	27.2
87.5°	4.5	6.8	97.4	102.0	145.0	83.8	40.8	27.2	58.9	58.9	15.9
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°	4746.8	4746.8	4746.8	4746.8	4746.8	4746.8	4746.8	4746.8	4746.8	4746.8	4746.8
2.5°	4762.7	4776.2	4767.2	4746.8	4712.8	4672.0	4617.6	4572.3	4533.8	4513.4	4538.3
5°	4792.1	4810.2	4764.9	4663.0	4508.9	4341.2	4150.9	4003.6	3888.1	3851.8	3838.2
7.5°	4837.4	4848.8	4726.4	4499.8	4173.6	3777.0	3430.4	3138.1	2911.5	2843.5	2743.9
10°	4896.3	4889.5	4658.4	4237.0	3663.8	3067.9	2530.9	2132.1	1830.7	1722.0	1712.9
12.5°	4987.0	4950.7	4572.3	3879.0	3056.5	2277.1	1613.2	1262.0	1071.7	1008.3	994.7
15°	5100.3	5014.2	4436.4	3459.8	2340.5	1470.5	994.7	888.2	863.3	858.7	854.2
17.5°	5233.9	5098.0	4257.4	2945.5	1645.0	953.9	831.5	829.3	831.5	827.0	824.7
20°	5415.2	5186.4	4044.4	2336.0	1087.6	804.3	793.0	793.0	795.3	793.0	793.0
22.5°	5607.8	5290.6	3781.6	1783.2	820.2	763.6	761.3	765.8	770.4	768.1	768.1
25°	5845.7	5426.5	3434.9	1221.3	734.1	729.6	731.8	740.9	750.0	752.2	750.0
27.5°	6190.1	5594.2	3063.3	840.6	672.9	677.5	700.1	722.8	736.4	738.6	738.6
30°	6577.5	5780.0	2578.4	682.0	623.1	623.1	650.3	693.3	722.8	727.3	729.6
32.5°	7076.0	5995.2	2041.5	614.0	575.5	571.0	595.9	648.0	702.4	718.3	718.3
35°	7692.3	6249.0	1518.1	571.0	541.5	530.2	543.8	586.8	657.1	702.4	706.9
37.5°	8415.1	6489.2	1110.2	532.5	509.8	493.9	503.0	537.0	593.6	661.6	679.7
40°	9083.5	6702.2	829.3	500.7	478.1	466.7	473.5	489.4	537.0	600.4	611.8
42.5°	9813.1	6867.6	659.3	466.7	446.4	441.8	441.8	448.6	480.3	516.6	518.9
45°	10540.4	6926.5	552.8	426.0	412.4	416.9	414.6	410.1	423.7	419.2	419.2
47.5°	11059.2	6856.2	457.7	387.4	387.4	394.2	382.9	367.1	360.3	333.1	335.3
50°	11415.0	6600.2	376.1	342.1	360.3	369.3	346.7	321.7	296.8	267.4	260.6
52.5°	11562.2	6144.8	308.1	283.2	319.5	330.8	303.6	274.2	235.6	210.7	203.9
55°	11467.1	5582.9	256.0	231.1	269.6	283.2	256.0	222.0	179.0	151.8	147.3
57.5°	11047.9	4912.2	217.5	183.5	215.2	224.3	206.2	169.9	126.9	99.7	99.7
60°	10322.9	4218.9	176.7	145.0	160.9	174.5	156.3	122.4	86.1	61.2	56.6
62.5°	8852.4	3425.8	142.7	113.3	113.3	124.6	108.8	88.4	54.4	31.7	29.5
65°	6391.7	2349.6	113.3	83.8	81.6	81.6	68.0	58.9	31.7	13.6	9.1
67.5°	3473.4	1325.5	90.6	63.4	56.6	54.4	43.0	34.0	13.6	2.3	0.0
70°	1366.3	509.8	70.2	43.0	36.3	34.0	22.7	15.9	9.1	0.0	0.0
71°	926.7	351.2	61.2	36.3	29.5	24.9	18.1	13.6	6.8	0.0	0.0
72.5°	530.2	217.5	47.6	27.2	22.7	18.1	13.6	9.1	6.8	0.0	0.0
75°	231.1	111.0	29.5	20.4	15.9	11.3	9.1	6.8	2.3	0.0	0.0
77.5°	117.8	61.2	20.4	15.9	9.1	6.8	4.5	2.3	0.0	0.0	0.0
80°	65.7	31.7	13.6	9.1	6.8	4.5	2.3	2.3	0.0	0.0	0.0
82.5°	36.3	18.1	6.8	4.5	2.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.7	11.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.3	4.5	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)