

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: P321213

Luminaire Tested: **GAN-SA9C-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321213
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42684 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

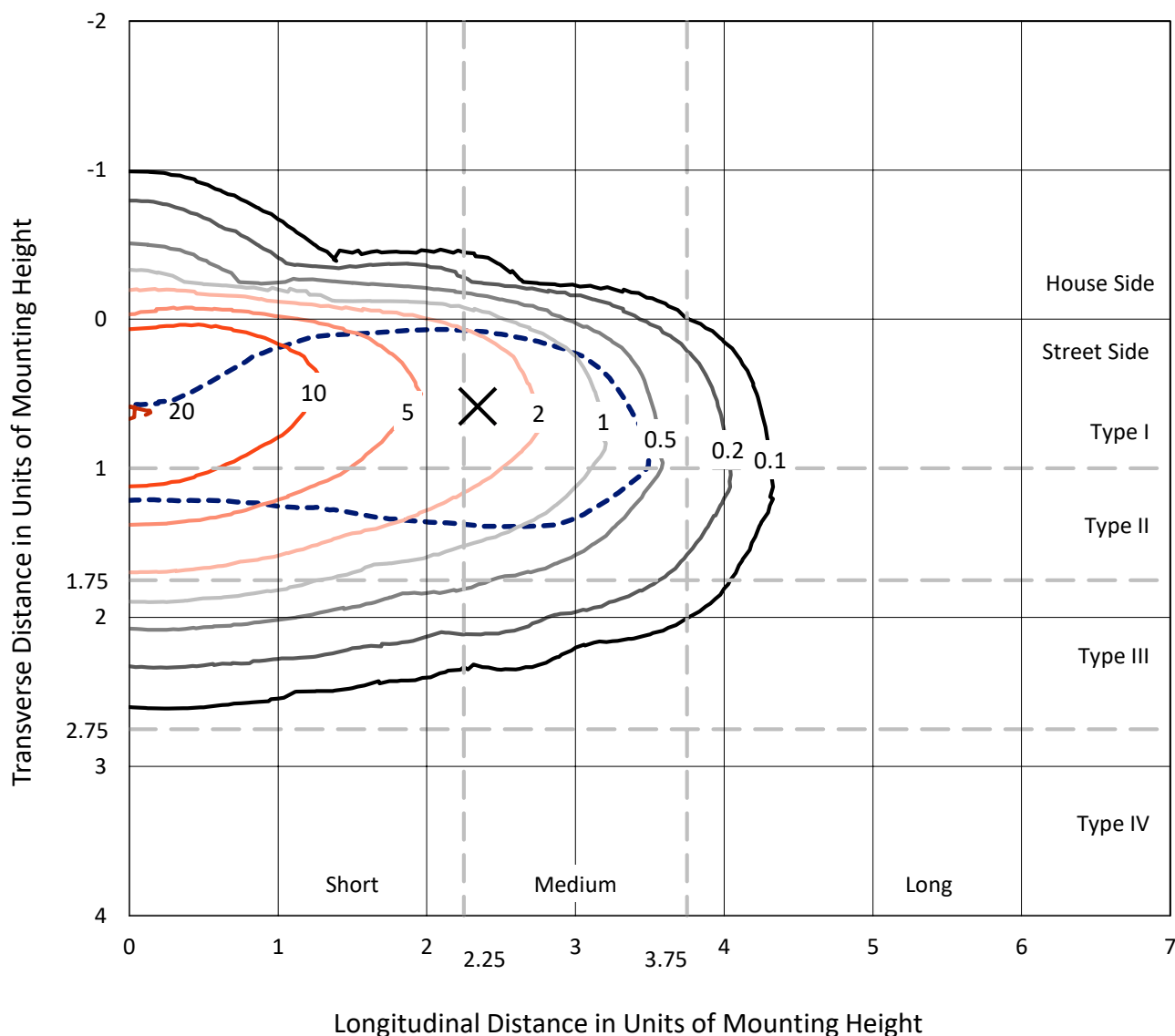
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

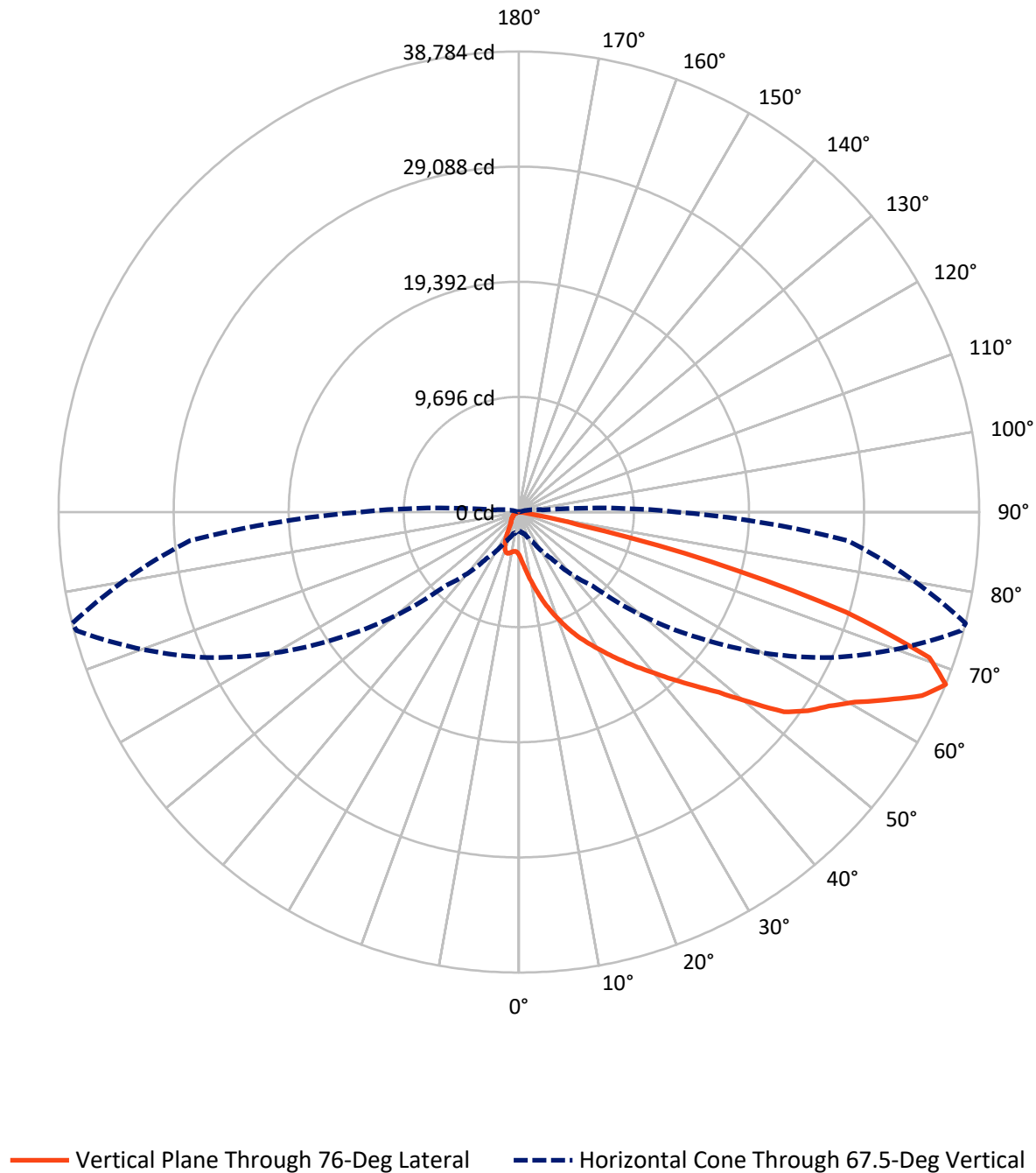
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2119.6	0.0	2119.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	40564.4	0.0	40564.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	42684.0	0.0	42684.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.2	1.1
10°-20°	1784.8	4.2
20°-30°	3631.6	8.5
30°-40°	6303.2	14.8
40°-50°	8905.6	20.9
50°-60°	10099.4	23.7
60°-70°	8376.5	19.6
70°-80°	3034.2	7.1
80°-90°	98.4	0.2
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°	42684.0	100.0
0°-180°	42684.0	100.0

Coefficient of Utilization



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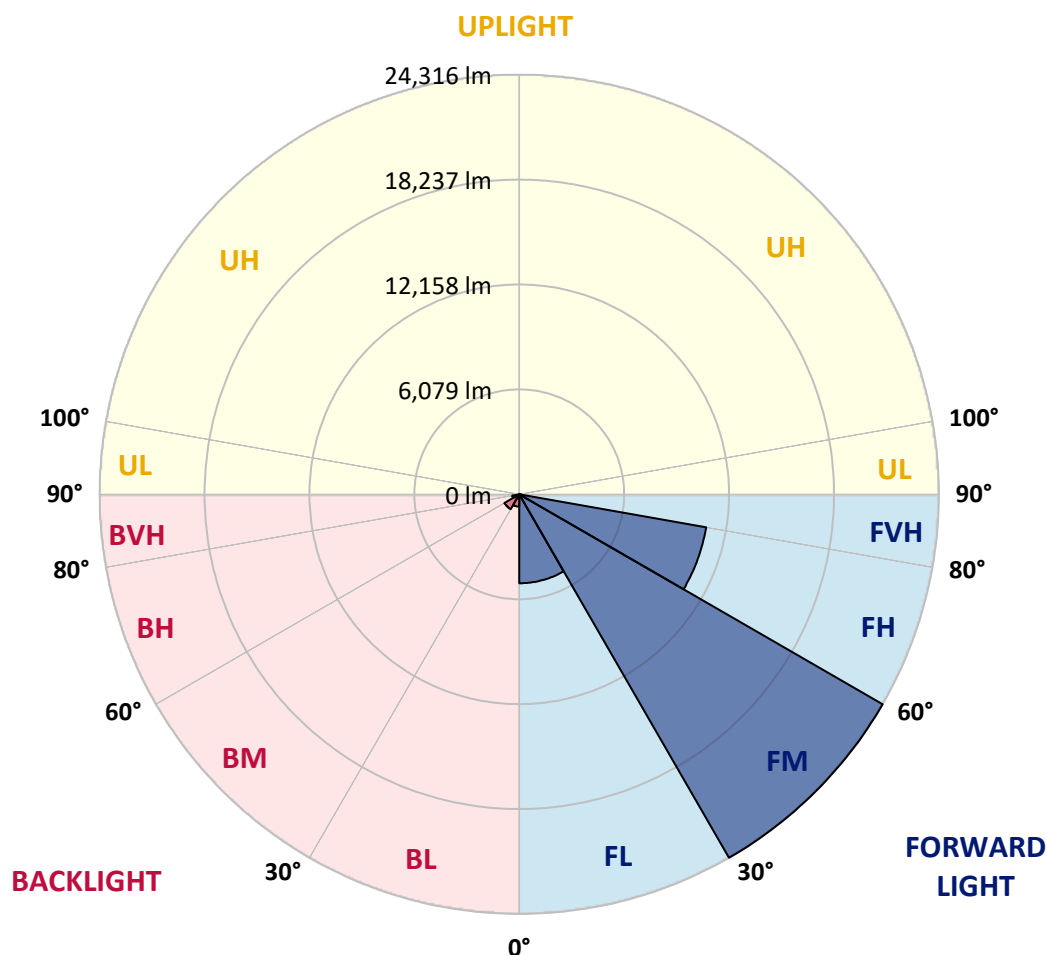
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5151.8	12.1			
FM	(30°-60°)	24316.2	57.0			
FH	(60°-80°)	11001.1	25.8			G4/12000
FVH	(80°-90°)	95.3	0.2			G1/100
BL	(0°-30°)	714.8	1.7	B2/1000		
BM	(30°-60°)	992.0	2.3	B1/1000		
BH	(60°-80°)	409.6	1.0	B1/500		G1/500
BVH	(80°-90°)	3.1	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3620.8	3620.8	3620.8	3620.8	3620.8	3620.8	3620.8	3620.8	3620.8	3620.8	3620.8
2.5°	5405.1	5283.5	5311.6	5233.0	5090.9	4799.1	4550.4	4314.7	4039.8	4030.4	3804.1
5°	7288.4	7185.6	7172.5	7013.5	6755.4	6259.8	5777.3	5227.4	4614.0	4569.1	4088.4
7.5°	8997.9	8915.6	8885.6	8696.7	8216.1	7733.6	7105.1	6297.2	5337.7	5255.5	4471.8
10°	10310.8	10271.5	10279.0	10144.3	9732.9	9284.0	8459.2	7428.7	6158.8	6031.6	4931.9
12.5°	11305.8	11315.1	11382.5	11300.2	11070.1	10737.2	9856.3	8635.0	7067.7	6893.8	5457.4
15°	12037.0	12083.8	12207.2	12310.1	12293.3	12005.3	11197.3	9860.1	8032.8	7840.2	6042.8
17.5°	12510.2	12562.6	12742.1	12970.3	13179.8	13112.5	12491.5	11042.1	9009.1	8786.5	6669.4
20°	12925.4	12987.1	13179.8	13480.9	13871.8	13955.9	13548.2	12188.5	9983.5	9712.3	7316.5
22.5°	13825.0	13823.2	13941.0	14116.8	14489.0	14705.9	14447.8	13252.7	10946.7	10664.3	7976.7
25°	15452.2	15390.4	15349.3	15210.9	15293.2	15427.8	15283.8	14247.7	11915.5	11629.3	8646.3
27.5°	17386.0	17423.4	17090.5	16718.3	16430.3	16291.9	16056.3	15169.7	12846.9	12532.7	9300.8
30°	19426.5	19437.7	19044.9	18569.9	17935.9	17410.3	17002.6	16050.6	13804.5	13462.2	9936.7
32.5°	21266.8	21193.9	20804.9	20157.8	19357.3	18766.3	17919.0	17034.4	14818.1	14487.1	10643.7
35°	22725.6	22639.6	22166.4	21577.3	20746.9	20152.1	19132.8	18016.3	15884.2	15560.6	11352.5
37.5°	23791.7	23690.7	23204.4	22598.5	21882.1	21536.1	20541.2	19084.2	17047.5	16699.6	12098.8
40°	24162.0	24074.1	23769.2	23326.0	22749.9	22671.4	22035.5	20313.0	18313.7	17943.4	12944.1
42.5°	23941.3	23855.3	23746.8	23597.2	23357.8	23432.6	23445.7	21713.8	19720.1	19355.4	13877.4
45°	23066.0	22989.3	23101.6	23320.4	23617.7	23988.1	24732.4	23219.4	21291.1	20902.1	14956.5
47.5°	21777.4	21721.3	22031.8	22577.9	23447.6	24468.7	25908.8	24801.6	23054.8	22693.8	16303.1
50°	19944.5	19935.2	20556.1	21553.0	22890.2	24700.6	27124.5	26600.8	25504.8	25125.2	18175.3
52.5°	17090.5	17109.2	18330.5	19925.8	21912.1	24543.5	27906.3	28912.5	28355.1	27960.5	19796.8
55°	14373.0	14485.2	15351.2	17651.6	20412.1	23960.0	28175.6	29991.6	29928.0	29554.0	20698.3
57.5°	11711.6	11915.5	12749.6	14898.6	18222.0	22615.3	28027.8	30459.2	31098.8	30812.7	21887.7
60°	8827.7	8921.2	9882.5	11891.2	15411.0	20161.5	26956.2	30713.5	32699.8	32501.5	23614.0
62.5°	5616.4	5850.2	6703.0	8640.6	11999.6	16753.9	25149.5	30709.8	34702.8	34811.3	25841.5
65°	2958.8	3231.8	3684.4	5354.6	8246.0	12947.9	22432.0	30421.8	37160.4	37311.9	27582.7
67.5°	1595.3	1673.9	1913.3	2779.2	4782.3	8771.6	18439.0	29000.4	38583.6	38783.8	27825.9
70°	1167.0	1210.1	1299.8	1537.4	2407.0	5094.6	13454.7	25777.9	36748.9	36674.1	24723.1
72.5°	895.9	963.2	1030.5	1125.9	1384.0	2719.4	8376.9	20185.8	29322.1	28828.3	18480.1
75°	707.0	718.2	813.6	899.6	1038.0	1548.6	3720.0	11756.5	17896.6	16727.7	9583.3
77.5°	564.8	572.3	628.4	703.2	834.1	1017.4	1152.1	4625.2	5713.7	5098.4	2079.7
80°	334.8	353.5	467.6	542.4	692.0	641.5	420.8	1004.3	892.1	808.0	349.7
82.5°	187.0	202.0	263.7	428.3	482.5	306.7	209.5	271.2	209.5	203.9	99.1
85°	0.0	9.4	170.2	265.6	196.4	67.3	87.9	89.8	61.7	58.0	39.3
87.5°	0.0	0.0	52.4	50.5	7.5	11.2	20.6	29.9	24.3	24.3	20.6
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°	3620.8	3620.8	3620.8	3620.8	3620.8	3620.8	3620.8	3620.8	3620.8	3620.8	3620.8
2.5°	3691.9	3590.9	3400.1	3213.1	3056.0	2927.0	2811.0	2764.3	2726.9	2721.2	2691.3
5°	3856.5	3652.6	3287.9	2988.7	2788.6	2646.4	2524.9	2450.1	2392.1	2369.6	2349.1
7.5°	4105.2	3796.6	3273.0	2928.8	2689.4	2450.1	2225.6	1982.5	1831.0	1773.0	1739.3
10°	4408.2	3987.4	3329.1	2912.0	2493.1	1988.1	1615.9	1307.3	1182.0	1140.9	1129.6
12.5°	4761.7	4224.9	3426.3	2807.3	2074.1	1412.1	1114.7	1009.9	981.9	968.8	968.8
15°	5167.6	4484.9	3495.5	2504.3	1533.6	1067.9	965.1	916.4	886.5	869.7	871.5
17.5°	5582.8	4739.3	3461.9	2064.8	1131.5	950.1	873.4	821.0	779.9	763.1	759.3
20°	6001.7	4974.9	3274.8	1537.4	957.6	862.2	776.2	718.2	677.0	660.2	656.5
22.5°	6435.6	5175.0	2945.7	1127.8	860.3	764.9	680.8	622.8	583.5	568.6	561.1
25°	6858.3	5337.7	2485.6	912.7	768.7	673.3	592.9	538.6	503.1	488.1	486.3
27.5°	7252.9	5440.6	1952.6	806.1	688.3	591.0	518.1	469.4	439.5	428.3	426.4
30°	7608.3	5450.0	1443.8	727.5	617.2	519.9	452.6	409.6	383.4	372.2	368.4
32.5°	7967.3	5371.4	1051.1	656.5	551.7	458.2	392.8	359.1	340.4	331.0	331.0
35°	8305.9	5190.0	819.2	594.7	488.1	398.4	346.0	321.7	310.5	301.1	301.1
37.5°	8636.9	4930.0	695.7	540.5	428.3	347.9	304.9	289.9	280.5	271.2	271.2
40°	8973.5	4602.7	632.2	490.0	379.7	308.6	271.2	258.1	248.7	241.3	239.4
42.5°	9386.9	4224.9	591.0	443.3	336.6	273.1	239.4	224.4	217.0	209.5	205.7
45°	9865.7	3899.5	557.3	396.5	301.1	243.1	207.6	192.6	181.4	172.1	170.2
47.5°	10555.8	3663.9	512.5	346.0	267.4	211.3	179.5	162.7	145.9	136.5	134.7
50°	11436.7	3469.3	454.5	301.1	233.8	179.5	149.6	129.0	114.1	104.7	104.7
52.5°	11874.3	3215.0	402.1	261.8	196.4	151.5	121.6	97.3	89.8	80.4	80.4
55°	12050.1	3020.5	349.7	222.6	162.7	125.3	95.4	74.8	69.2	63.6	61.7
57.5°	12543.9	2964.4	304.9	188.9	134.7	99.1	72.9	56.1	52.4	44.9	44.9
60°	13338.8	2992.4	263.7	160.8	108.5	76.7	54.2	43.0	39.3	31.8	31.8
62.5°	14197.2	2956.9	222.6	138.4	84.2	56.1	37.4	31.8	31.8	18.7	16.8
65°	14361.8	2633.3	190.8	114.1	65.5	41.1	24.3	20.6	28.1	3.7	0.0
67.5°	13329.4	2042.3	164.6	87.9	48.6	31.8	18.7	9.4	24.3	0.0	0.0
70°	10658.7	1298.0	132.8	63.6	37.4	26.2	15.0	3.7	18.7	0.0	0.0
72.5°	7537.2	753.7	104.7	44.9	31.8	20.6	11.2	0.0	11.2	0.0	0.0
75°	3811.6	402.1	65.5	33.7	24.3	15.0	7.5	0.0	1.9	0.0	0.0
77.5°	824.8	187.0	41.1	24.3	16.8	9.4	3.7	0.0	0.0	0.0	0.0
80°	179.5	82.3	26.2	15.0	9.4	5.6	0.0	0.0	0.0	0.0	0.0
82.5°	65.5	43.0	13.1	7.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	35.5	22.4	7.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.7	7.5	1.9	1.9	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)