

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: P321214

Luminaire Tested: **GAN-SA0C-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321214
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-SA0C-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 47259 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

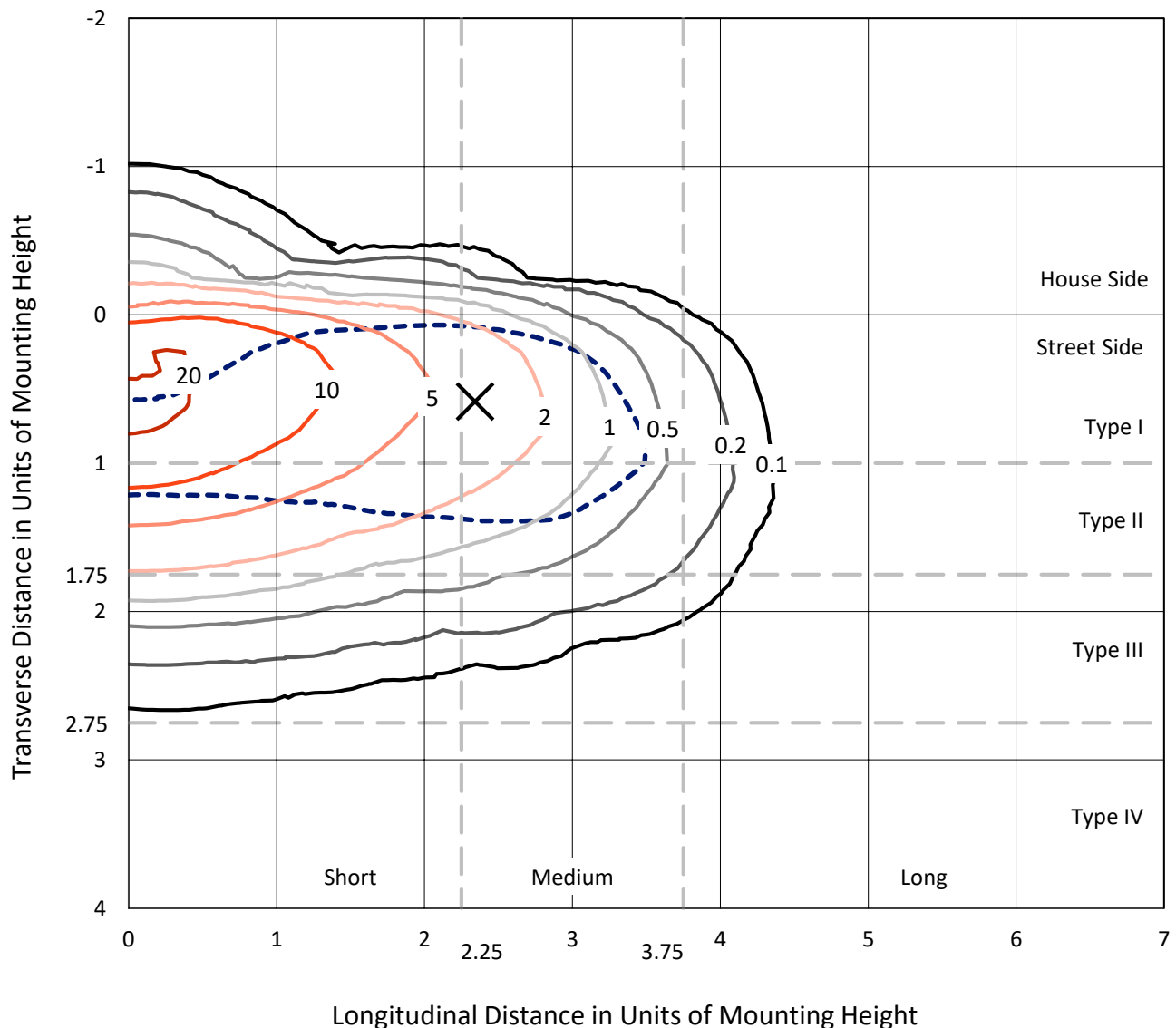
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

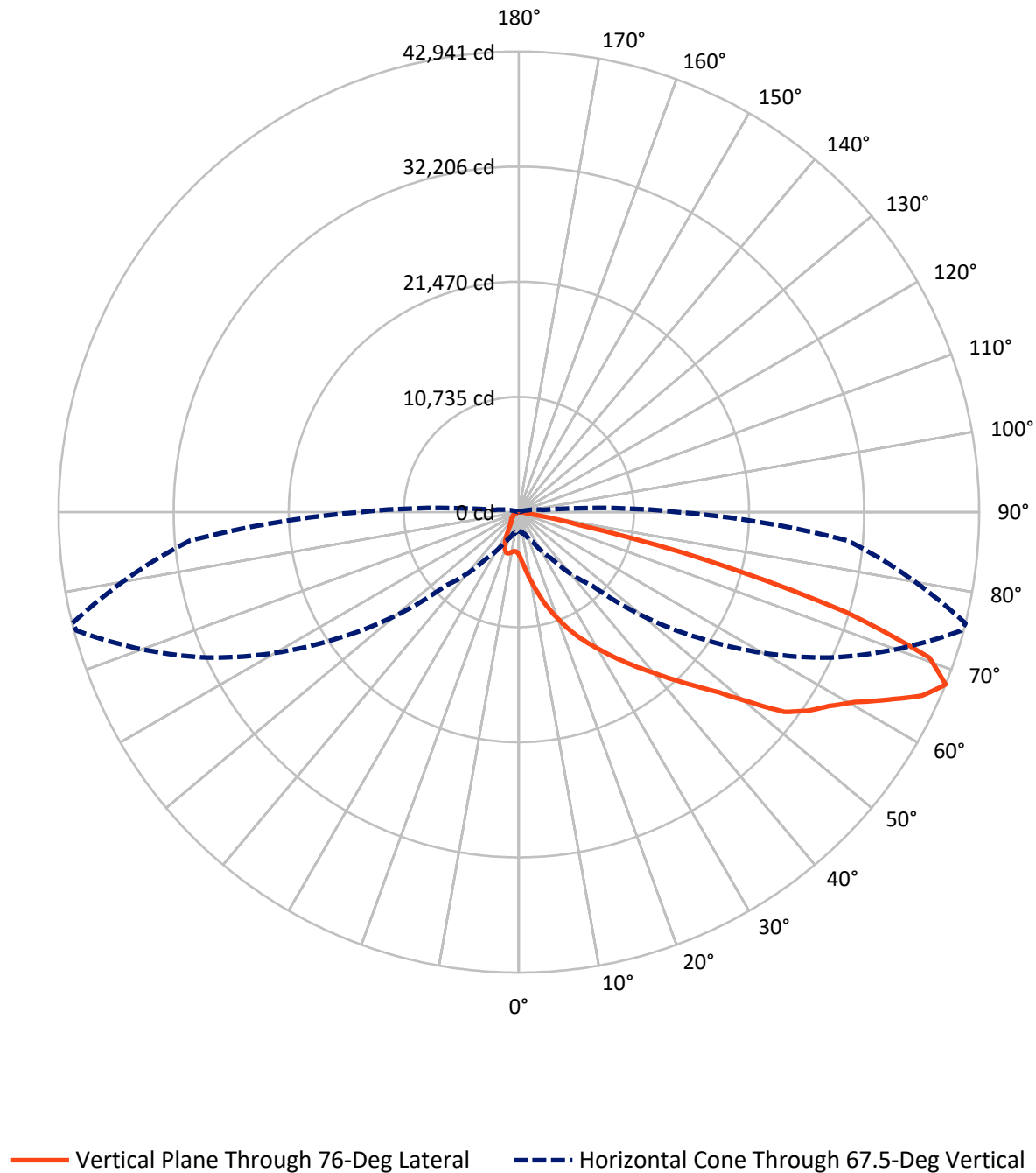
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.6 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	2346.8	0.0	2346.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	44912.2	0.0	44912.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	47259.0	0.0	47259.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.5	1.1
10°-20°	1976.1	4.2
20°-30°	4020.8	8.5
30°-40°	6978.8	14.8
40°-50°	9860.2	20.9
50°-60°	11181.9	23.7
60°-70°	9274.3	19.6
70°-80°	3359.4	7.1
80°-90°	108.9	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°	47259.0	100.0
0°-180°	47259.0	100.0

Coefficient of Utilization



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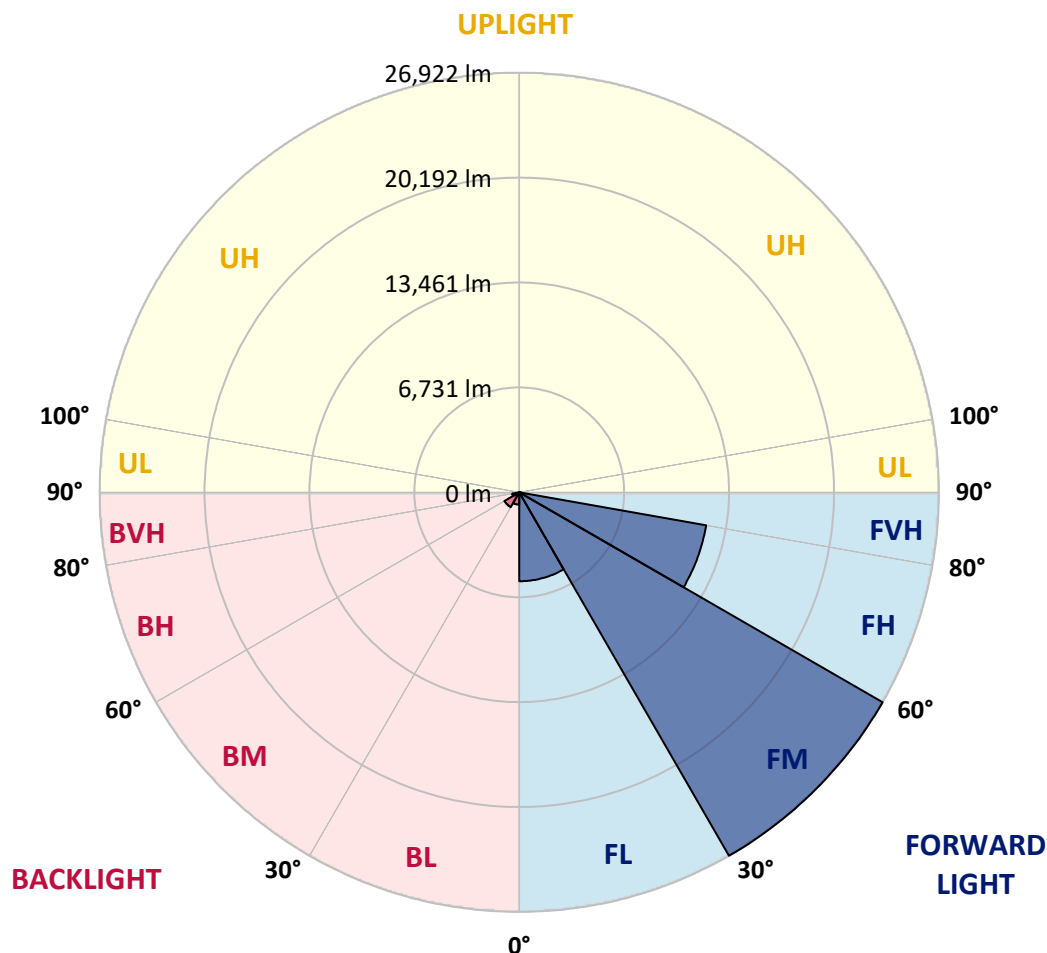
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5704.0	12.1			
FM	(30°-60°)	26922.5	57.0			
FH	(60°-80°)	12180.2	25.8			G5
FVH	(80°-90°)	105.5	0.2			G2/225
BL	(0°-30°)	791.4	1.7	B2/1000		
BM	(30°-60°)	1098.4	2.3	B2/2500		
BH	(60°-80°)	453.5	1.0	B1/500		G1/500
BVH	(80°-90°)	3.4	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4008.9	4008.9	4008.9	4008.9	4008.9	4008.9	4008.9	4008.9	4008.9	4008.9	4008.9
2.5°	5984.4	5849.8	5880.9	5793.9	5636.5	5313.5	5038.1	4777.2	4472.8	4462.4	4211.9
5°	8069.6	7955.7	7941.2	7765.2	7479.5	6930.7	6396.5	5787.7	5108.5	5058.8	4526.6
7.5°	9962.3	9871.2	9838.0	9628.9	9096.7	8562.5	7866.7	6972.1	5909.9	5818.7	4951.1
10°	11415.9	11372.4	11380.7	11231.6	10776.1	10279.1	9365.9	8224.9	6818.9	6678.1	5460.5
12.5°	12517.6	12527.9	12602.5	12511.3	12256.6	11888.1	10912.7	9560.6	7825.3	7632.7	6042.4
15°	13327.2	13379.0	13515.7	13629.5	13610.9	13292.0	12397.5	10916.9	8893.8	8680.5	6690.5
17.5°	13851.1	13909.1	14107.9	14360.5	14592.4	14517.9	13830.4	12225.6	9974.7	9728.3	7384.2
20°	14310.8	14379.1	14592.4	14925.8	15358.6	15451.8	15000.4	13494.9	11053.6	10753.3	8100.7
22.5°	15306.8	15304.8	15435.2	15629.9	16041.9	16282.1	15996.4	14673.2	12120.0	11807.3	8831.7
25°	17108.4	17040.0	16994.5	16841.2	16932.4	17081.4	16922.0	15774.8	13192.6	12875.8	9573.0
27.5°	19249.5	19290.9	18922.3	18510.2	18191.4	18038.1	17777.2	16795.7	14223.8	13876.0	10297.7
30°	21508.7	21521.1	21086.2	20560.3	19858.3	19276.4	18825.0	17771.0	15284.1	14905.1	11001.8
32.5°	23546.3	23465.5	23034.8	22318.3	21432.0	20777.7	19839.7	18860.2	16406.4	16039.9	11784.5
35°	25161.4	25066.2	24542.3	23890.0	22970.6	22312.1	21183.6	19947.3	17586.7	17228.5	12569.3
37.5°	26341.7	26229.9	25691.5	25020.6	24227.5	23844.4	22742.8	21129.7	18874.7	18489.5	13395.5
40°	26751.8	26654.4	26316.9	25826.1	25188.4	25101.4	24397.3	22490.2	20276.6	19866.6	14331.5
42.5°	26507.4	26412.2	26292.0	26126.4	25861.3	25944.2	25958.7	24041.2	21833.8	21430.0	15364.8
45°	25538.3	25453.4	25577.6	25819.9	26149.2	26559.2	27383.3	25708.1	23573.2	23142.5	16559.6
47.5°	24111.6	24049.5	24393.2	24997.8	25960.7	27091.4	28685.8	27459.9	25525.9	25126.2	18050.5
50°	22082.3	22071.9	22759.4	23863.1	25343.7	27348.1	30031.8	29452.0	28238.5	27818.2	20123.3
52.5°	18922.3	18943.0	20295.2	22061.6	24260.7	27174.2	30897.4	32011.4	31394.3	30957.4	21918.7
55°	15913.6	16037.8	16996.5	19543.5	22599.9	26528.1	31195.5	33206.2	33135.8	32721.7	22916.8
57.5°	12966.9	13192.6	14116.2	16495.4	20175.1	25039.3	31031.9	33723.9	34432.1	34115.3	24233.7
60°	9773.8	9877.4	10941.7	13165.7	17062.8	22322.5	29845.4	34005.5	36204.6	35985.1	26145.0
62.5°	6218.4	6477.2	7421.5	9566.8	13285.8	18549.6	27845.1	34001.4	38422.4	38542.5	28611.3
65°	3275.9	3578.2	4079.3	5928.5	9129.8	14335.7	24836.3	33682.5	41143.3	41311.0	30539.1
67.5°	1766.3	1853.3	2118.4	3077.1	5294.9	9711.7	20415.3	32108.7	42719.1	42940.7	30808.3
70°	1292.1	1339.8	1439.2	1702.1	2665.0	5640.7	14896.8	28540.9	40687.8	40604.9	27373.0
72.5°	991.9	1066.4	1141.0	1246.6	1532.3	3010.8	9274.8	22349.4	32464.9	31918.2	20460.9
75°	782.7	795.2	900.8	996.0	1149.3	1714.6	4118.7	13016.6	19814.8	18520.6	10610.4
77.5°	625.4	633.6	695.8	778.6	923.5	1126.5	1275.6	5120.9	6326.1	5644.8	2302.7
80°	370.7	391.4	517.7	600.5	766.2	710.3	465.9	1112.0	987.7	894.6	387.2
82.5°	207.1	223.6	292.0	474.2	534.2	339.6	231.9	300.3	231.9	225.7	109.7
85°	0.0	10.4	188.4	294.0	217.4	74.5	97.3	99.4	68.3	64.2	43.5
87.5°	0.0	0.0	58.0	55.9	8.3	12.4	22.8	33.1	26.9	26.9	22.8
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°	4008.9	4008.9	4008.9	4008.9	4008.9	4008.9	4008.9	4008.9	4008.9	4008.9	4008.9
2.5°	4087.6	3975.8	3764.6	3557.5	3383.6	3240.7	3112.3	3060.5	3019.1	3012.9	2979.8
5°	4269.8	4044.1	3640.3	3309.0	3087.5	2930.1	2795.5	2712.7	2648.5	2623.6	2600.8
7.5°	4545.3	4203.6	3623.8	3242.8	2977.7	2712.7	2464.2	2195.0	2027.2	1963.1	1925.8
10°	4880.7	4414.8	3685.9	3224.1	2760.3	2201.2	1789.1	1447.4	1308.7	1263.1	1250.7
12.5°	5272.1	4677.8	3793.6	3108.2	2296.4	1563.4	1234.2	1118.2	1087.1	1072.6	1072.6
15°	5721.4	4965.6	3870.2	2772.7	1698.0	1182.4	1068.5	1014.7	981.5	962.9	965.0
17.5°	6181.1	5247.2	3832.9	2286.1	1252.8	1051.9	967.0	909.1	863.5	844.9	840.7
20°	6645.0	5508.1	3625.8	1702.1	1060.2	954.6	859.4	795.2	749.6	731.0	726.8
22.5°	7125.4	5729.7	3261.4	1248.6	952.5	846.9	753.7	689.6	646.1	629.5	621.2
25°	7593.4	5909.9	2752.0	1010.5	851.1	745.5	656.4	596.4	557.0	540.5	538.4
27.5°	8030.3	6023.8	2161.8	892.5	762.0	654.4	573.6	519.8	486.6	474.2	472.1
30°	8423.7	6034.1	1598.6	805.5	683.3	575.7	501.1	453.5	424.5	412.1	407.9
32.5°	8821.3	5947.1	1163.7	726.8	610.9	507.3	434.9	397.6	376.9	366.5	366.5
35°	9196.1	5746.3	907.0	658.5	540.5	441.1	383.1	356.2	343.7	333.4	333.4
37.5°	9562.6	5458.4	770.3	598.4	474.2	385.2	337.5	321.0	310.6	300.3	300.3
40°	9935.4	5096.1	699.9	542.5	420.4	341.7	300.3	285.8	275.4	267.1	265.1
42.5°	10393.0	4677.8	654.4	490.8	372.7	302.3	265.1	248.5	240.2	231.9	227.8
45°	10923.1	4317.5	617.1	439.0	333.4	269.2	229.9	213.3	200.9	190.5	188.4
47.5°	11687.2	4056.6	567.4	383.1	296.1	234.0	198.8	180.2	161.5	151.2	149.1
50°	12662.5	3841.2	503.2	333.4	258.8	198.8	165.7	142.9	126.3	116.0	116.0
52.5°	13147.1	3559.6	445.2	289.9	217.4	167.7	134.6	107.7	99.4	89.0	89.0
55°	13341.7	3344.2	387.2	246.4	180.2	138.7	105.6	82.8	76.6	70.4	68.3
57.5°	13888.4	3282.1	337.5	209.1	149.1	109.7	80.8	62.1	58.0	49.7	49.7
60°	14768.4	3313.2	292.0	178.1	120.1	84.9	60.1	47.6	43.5	35.2	35.2
62.5°	15718.9	3273.8	246.4	153.2	93.2	62.1	41.4	35.2	35.2	20.7	18.6
65°	15901.1	2915.6	211.2	126.3	72.5	45.6	26.9	22.8	31.1	4.1	0.0
67.5°	14758.1	2261.2	182.2	97.3	53.8	35.2	20.7	10.4	26.9	0.0	0.0
70°	11801.1	1437.1	147.0	70.4	41.4	29.0	16.6	4.1	20.7	0.0	0.0
72.5°	8345.0	834.5	116.0	49.7	35.2	22.8	12.4	0.0	12.4	0.0	0.0
75°	4220.1	445.2	72.5	37.3	26.9	16.6	8.3	0.0	2.1	0.0	0.0
77.5°	913.2	207.1	45.6	26.9	18.6	10.4	4.1	0.0	0.0	0.0	0.0
80°	198.8	91.1	29.0	16.6	10.4	6.2	0.0	0.0	0.0	0.0	0.0
82.5°	72.5	47.6	14.5	8.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	39.3	24.8	8.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.7	8.3	2.1	2.1	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)