

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: P321201

Luminaire Tested: **GAN-SA7B-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321201
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-SA7B-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA 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: 27286 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

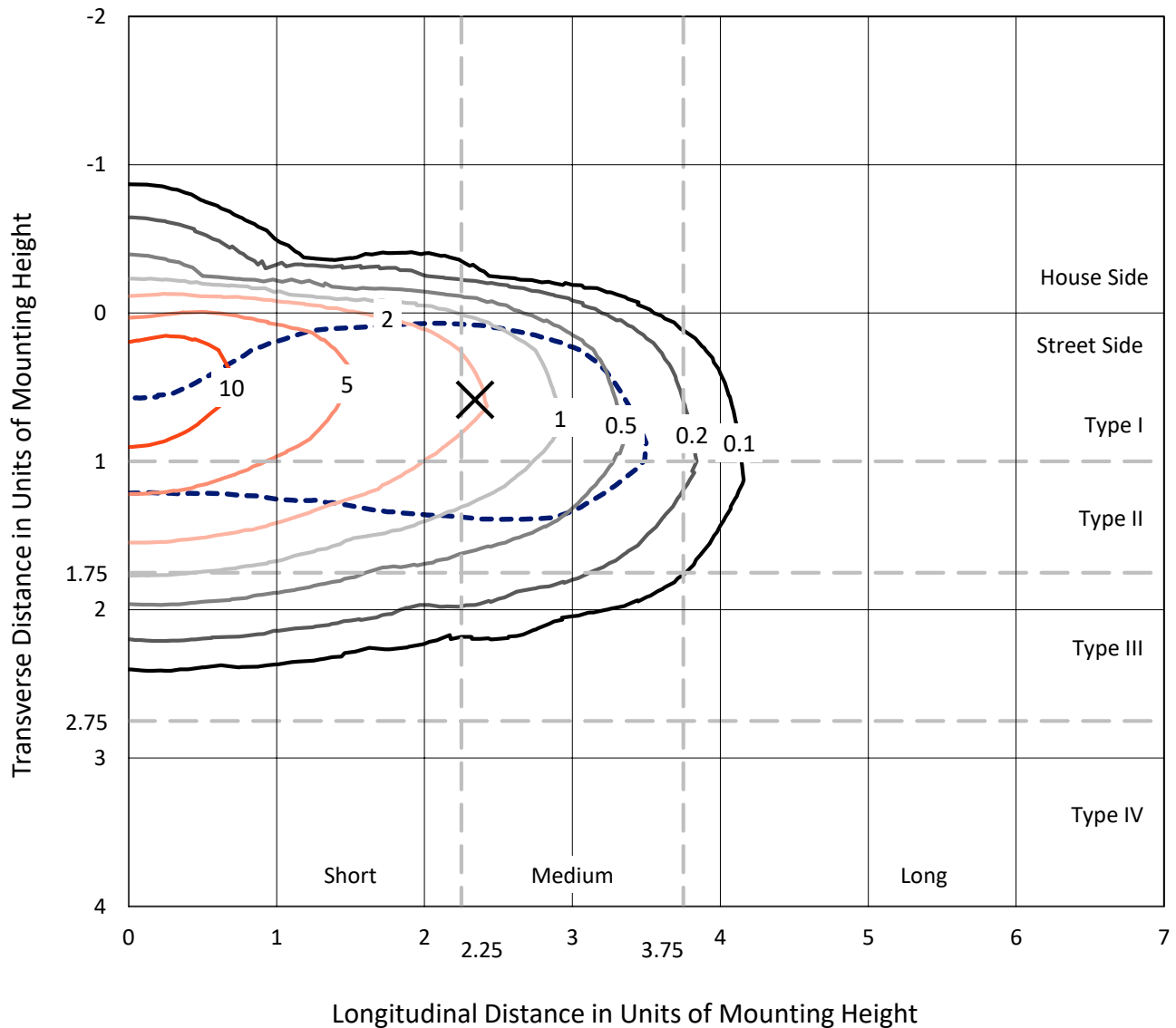
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

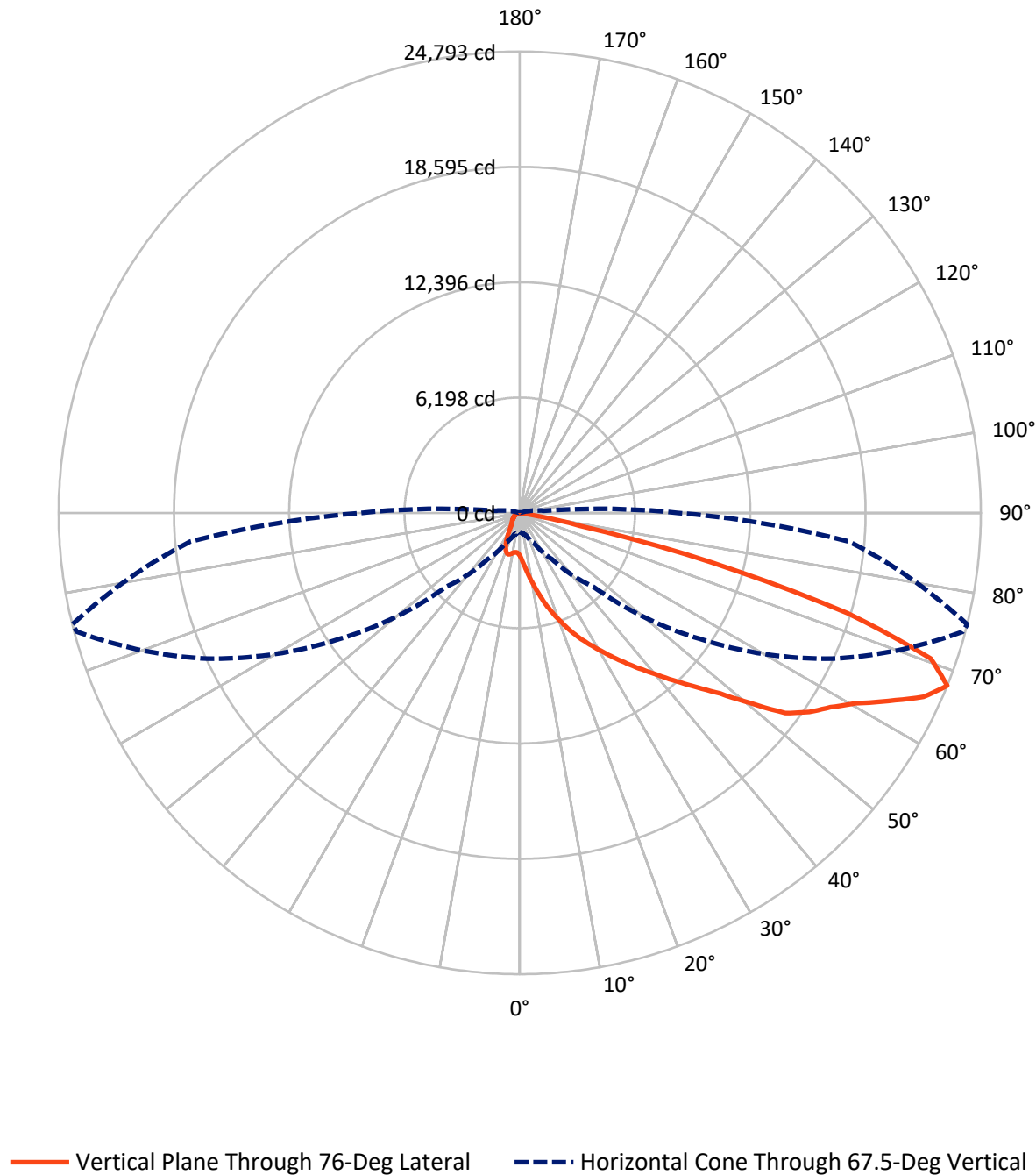
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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	1355.0	0.0	1355.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	25931.1	0.0	25931.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	27286.0	0.0	27286.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.8	1.1
10°-20°	1141.0	4.2
20°-30°	2321.5	8.5
30°-40°	4029.4	14.8
40°-50°	5693.0	20.9
50°-60°	6456.1	23.7
60°-70°	5354.7	19.6
70°-80°	1939.6	7.1
80°-90°	62.9	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°	27286.0	100.0
0°-180°	27286.0	100.0

Coefficient of Utilization



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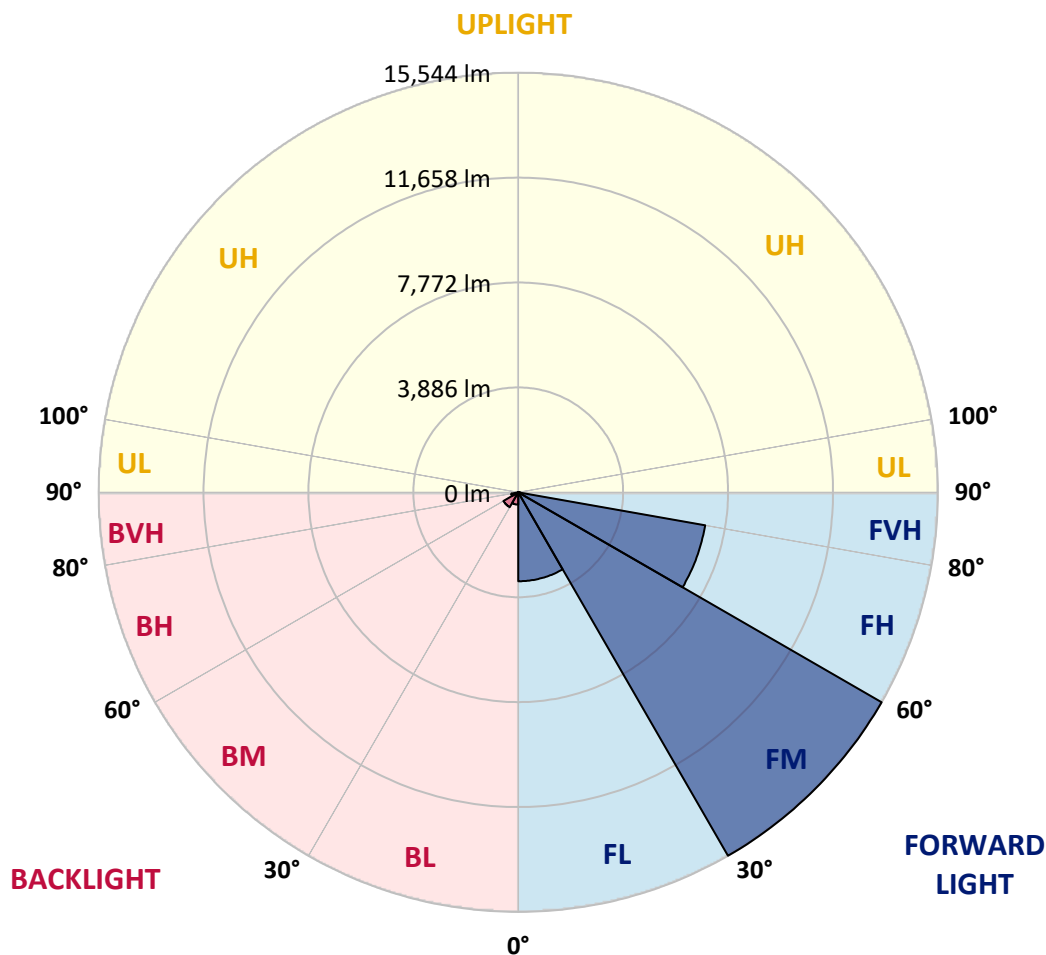
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3293.3	12.1			
FM	(30°-60°)	15544.3	57.0			
FH	(60°-80°)	7032.5	25.8			G3/7500
FVH	(80°-90°)	60.9	0.2			G1/100
BL	(0°-30°)	457.0	1.7	B1/500		
BM	(30°-60°)	634.2	2.3	B1/1000		
BH	(60°-80°)	261.9	1.0	B1/500		G1/500
BVH	(80°-90°)	2.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6
2.5°	3455.2	3377.5	3395.4	3345.2	3254.4	3067.9	2908.8	2758.2	2582.5	2576.5	2431.8
5°	4659.2	4593.4	4585.0	4483.4	4318.4	4001.6	3693.1	3341.6	2949.5	2920.8	2613.5
7.5°	5751.9	5699.3	5680.2	5559.4	5252.2	4943.7	4542.0	4025.5	3412.2	3359.6	2858.6
10°	6591.2	6566.1	6570.9	6484.8	6221.8	5934.9	5407.6	4748.8	3937.0	3855.7	3152.7
12.5°	7227.3	7233.3	7276.3	7223.7	7076.6	6863.8	6300.7	5520.0	4518.1	4406.9	3488.7
15°	7694.8	7724.6	7803.6	7869.3	7858.5	7674.4	7157.9	6303.1	5135.0	5011.9	3862.9
17.5°	7997.2	8030.7	8145.5	8291.3	8425.3	8382.2	7985.3	7058.7	5759.1	5616.8	4263.4
20°	8262.7	8302.1	8425.3	8617.7	8867.6	8921.4	8660.8	7791.6	6382.0	6208.6	4677.1
22.5°	8837.7	8836.5	8911.9	9024.2	9262.2	9400.8	9235.9	8471.9	6997.7	6817.2	5099.1
25°	9877.9	9838.4	9812.1	9723.7	9776.3	9862.3	9770.3	9107.9	7617.0	7434.1	5527.2
27.5°	11114.1	11138.0	10925.2	10687.3	10503.2	10414.7	10264.1	9697.4	8212.4	8011.6	5945.6
30°	12418.5	12425.7	12174.6	11870.9	11465.6	11129.7	10869.0	10260.5	8824.6	8605.8	6352.1
32.5°	13594.9	13548.3	13299.6	12886.0	12374.3	11996.5	11454.9	10889.3	9472.6	9261.0	6804.0
35°	14527.5	14472.5	14170.0	13793.4	13262.6	12882.4	12230.8	11517.0	10154.1	9947.2	7257.2
37.5°	15209.0	15144.4	14833.6	14446.2	13988.3	13767.1	13131.1	12199.7	10897.7	10675.3	7734.2
40°	15445.7	15389.5	15194.6	14911.3	14543.0	14492.8	14086.3	12985.2	11707.1	11470.4	8274.6
42.5°	15304.6	15249.6	15180.3	15084.6	14931.6	14979.4	14987.8	13880.7	12606.2	12373.1	8871.2
45°	14745.1	14696.1	14767.8	14907.7	15097.8	15334.5	15810.4	14843.1	13610.5	13361.8	9561.1
47.5°	13921.3	13885.5	14083.9	14433.0	14989.0	15641.8	16562.4	15854.6	14737.9	14507.2	10421.9
50°	12749.7	12743.7	13140.6	13777.9	14632.7	15790.0	17339.5	17004.7	16304.1	16061.4	11618.6
52.5°	10925.2	10937.2	11717.9	12737.7	14007.4	15689.6	17839.3	18482.5	18126.2	17873.9	12655.2
55°	9188.0	9259.8	9813.3	11283.9	13048.6	15316.6	18011.4	19172.3	19131.7	18892.6	13231.5
57.5°	7486.7	7617.0	8150.3	9524.0	11648.5	14457.0	17917.0	19471.2	19880.1	19697.2	13991.9
60°	5643.1	5702.9	6317.4	7601.5	9851.6	12888.4	17231.9	19633.8	20903.5	20776.8	15095.4
62.5°	3590.3	3739.8	4285.0	5523.6	7670.8	10710.0	16077.0	19631.4	22184.0	22253.3	16519.3
65°	1891.4	2066.0	2355.3	3422.9	5271.3	8277.0	14339.8	19447.3	23755.0	23851.8	17632.4
67.5°	1019.8	1070.0	1223.1	1776.6	3057.1	5607.3	11787.2	18538.7	24664.8	24792.7	17787.8
70°	746.0	773.5	830.9	982.8	1538.7	3256.8	8601.0	16478.7	23492.0	23444.1	15804.4
72.5°	572.7	615.7	658.8	719.7	884.7	1738.4	5355.0	12903.9	18744.3	18428.7	11813.5
75°	451.9	459.1	520.1	575.1	663.5	989.9	2378.0	7515.4	11440.5	10693.3	6126.2
77.5°	361.1	365.8	401.7	449.5	533.2	650.4	736.5	2956.7	3652.5	3259.2	1329.5
80°	214.0	226.0	298.9	346.7	442.4	410.1	269.0	642.0	570.3	516.5	223.6
82.5°	119.6	129.1	168.6	273.8	308.5	196.1	133.9	173.4	133.9	130.3	63.4
85°	0.0	6.0	108.8	169.8	125.5	43.0	56.2	57.4	39.5	37.1	25.1
87.5°	0.0	0.0	33.5	32.3	4.8	7.2	13.2	19.1	15.5	15.5	13.2
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°	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6
2.5°	2360.1	2295.5	2173.6	2054.0	1953.6	1871.1	1797.0	1767.1	1743.2	1739.6	1720.4
5°	2465.3	2335.0	2101.8	1910.5	1782.6	1691.7	1614.0	1566.2	1529.1	1514.8	1501.6
7.5°	2624.3	2427.0	2092.3	1872.3	1719.2	1566.2	1422.7	1267.3	1170.5	1133.4	1111.9
10°	2818.0	2549.0	2128.1	1861.5	1593.7	1270.9	1033.0	835.7	755.6	729.3	722.1
12.5°	3043.9	2700.8	2190.3	1794.6	1325.9	902.7	712.6	645.6	627.7	619.3	619.3
15°	3303.4	2867.0	2234.5	1600.9	980.4	682.7	616.9	585.8	566.7	555.9	557.1
17.5°	3568.8	3029.6	2213.0	1319.9	723.3	607.4	558.3	524.9	498.6	487.8	485.4
20°	3836.6	3180.2	2093.5	982.8	612.1	551.2	496.2	459.1	432.8	422.0	419.6
22.5°	4114.0	3308.2	1883.0	720.9	550.0	489.0	435.2	398.1	373.0	363.5	358.7
25°	4384.2	3412.2	1588.9	583.4	491.4	430.4	379.0	344.3	321.6	312.0	310.9
27.5°	4636.5	3477.9	1248.2	515.3	440.0	377.8	331.2	300.1	281.0	273.8	272.6
30°	4863.6	3483.9	923.0	465.1	394.5	332.4	289.3	261.8	245.1	237.9	235.5
32.5°	5093.2	3433.7	671.9	419.6	352.7	292.9	251.1	229.6	217.6	211.6	211.6
35°	5309.6	3317.7	523.7	380.2	312.0	254.7	221.2	205.6	198.5	192.5	192.5
37.5°	5521.2	3151.5	444.8	345.5	273.8	222.4	194.9	185.3	179.3	173.4	173.4
40°	5736.4	2942.3	404.1	313.2	242.7	197.3	173.4	165.0	159.0	154.2	153.0
42.5°	6000.6	2700.8	377.8	283.4	215.2	174.6	153.0	143.5	138.7	133.9	131.5
45°	6306.7	2492.8	356.3	253.5	192.5	155.4	132.7	123.1	116.0	110.0	108.8
47.5°	6747.9	2342.1	327.6	221.2	171.0	135.1	114.8	104.0	93.3	87.3	86.1
50°	7311.0	2217.8	290.5	192.5	149.4	114.8	95.6	82.5	72.9	67.0	67.0
52.5°	7590.7	2055.2	257.0	167.4	125.5	96.8	77.7	62.2	57.4	51.4	51.4
55°	7703.1	1930.9	223.6	142.3	104.0	80.1	61.0	47.8	44.2	40.6	39.5
57.5°	8018.8	1895.0	194.9	120.8	86.1	63.4	46.6	35.9	33.5	28.7	28.7
60°	8526.9	1912.9	168.6	102.8	69.3	49.0	34.7	27.5	25.1	20.3	20.3
62.5°	9075.6	1890.2	142.3	88.5	53.8	35.9	23.9	20.3	20.3	12.0	10.8
65°	9180.9	1683.4	121.9	72.9	41.8	26.3	15.5	13.2	17.9	2.4	0.0
67.5°	8520.9	1305.6	105.2	56.2	31.1	20.3	12.0	6.0	15.5	0.0	0.0
70°	6813.6	829.7	84.9	40.6	23.9	16.7	9.6	2.4	12.0	0.0	0.0
72.5°	4818.2	481.8	67.0	28.7	20.3	13.2	7.2	0.0	7.2	0.0	0.0
75°	2436.6	257.0	41.8	21.5	15.5	9.6	4.8	0.0	1.2	0.0	0.0
77.5°	527.3	119.6	26.3	15.5	10.8	6.0	2.4	0.0	0.0	0.0	0.0
80°	114.8	52.6	16.7	9.6	6.0	3.6	0.0	0.0	0.0	0.0	0.0
82.5°	41.8	27.5	8.4	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.7	14.3	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.0	4.8	1.2	1.2	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)