

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: P321302

Luminaire Tested: **GAN-SA8D-740-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321302
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-SA8D-740-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA 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: 50192 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

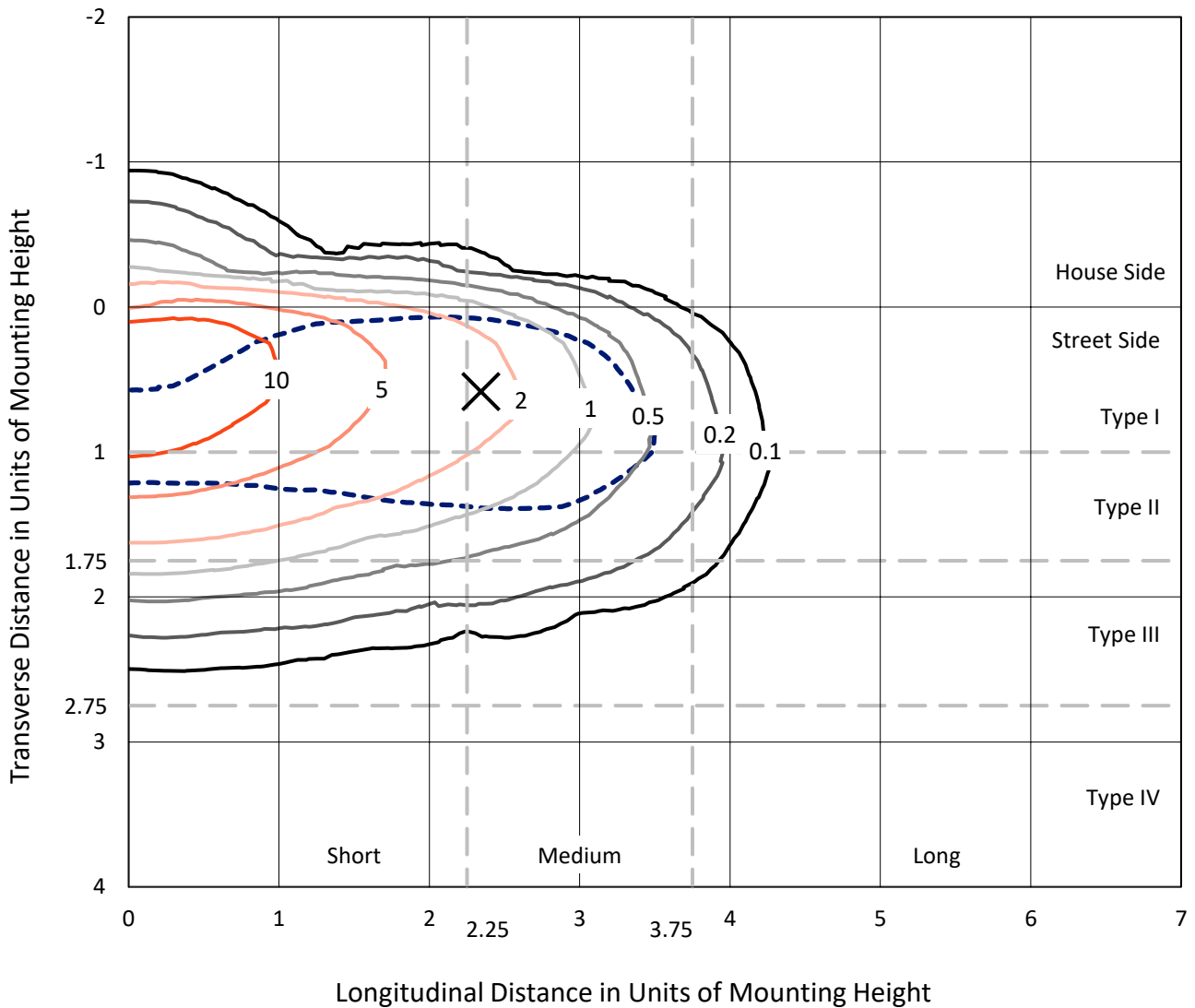
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

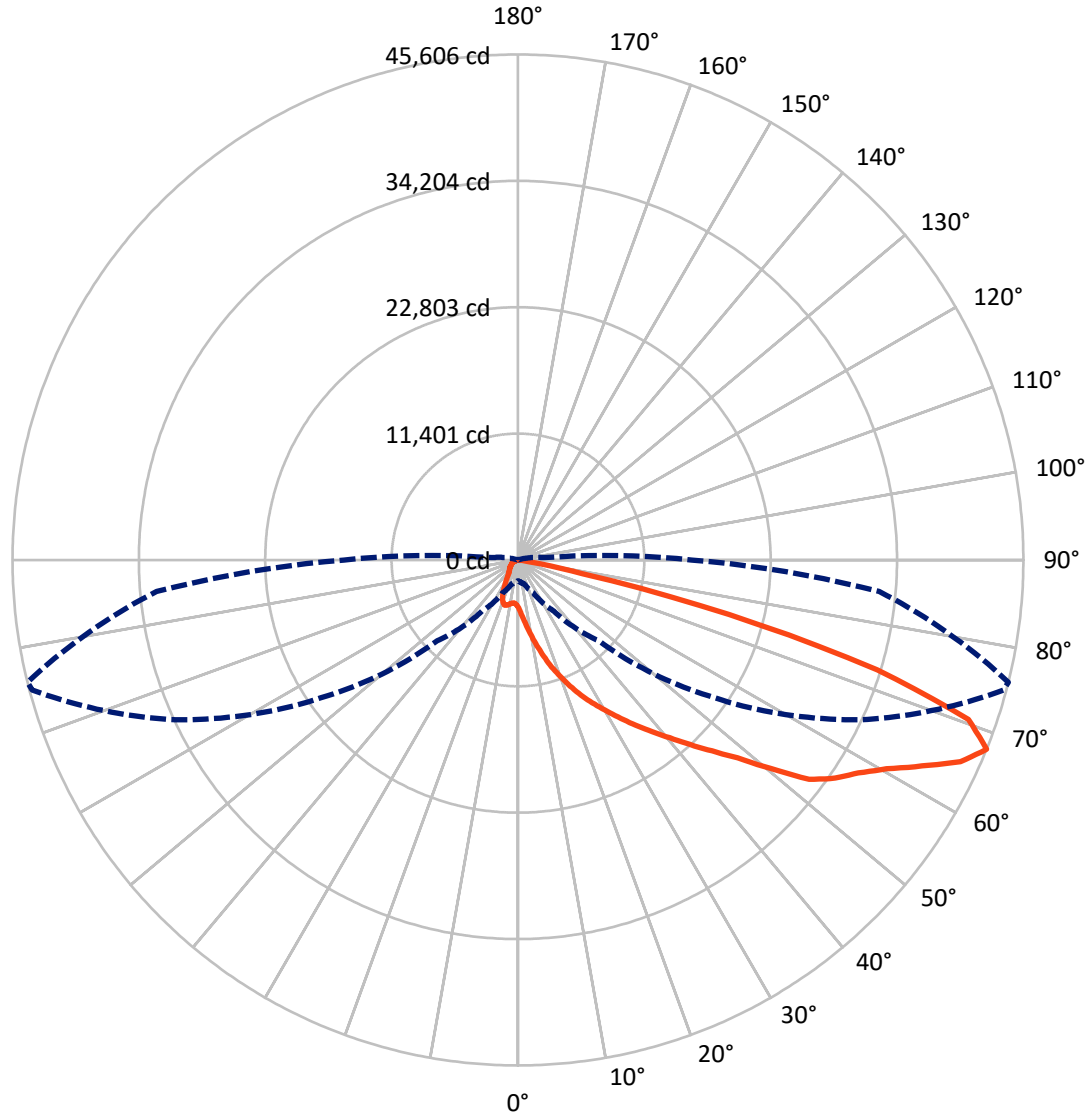
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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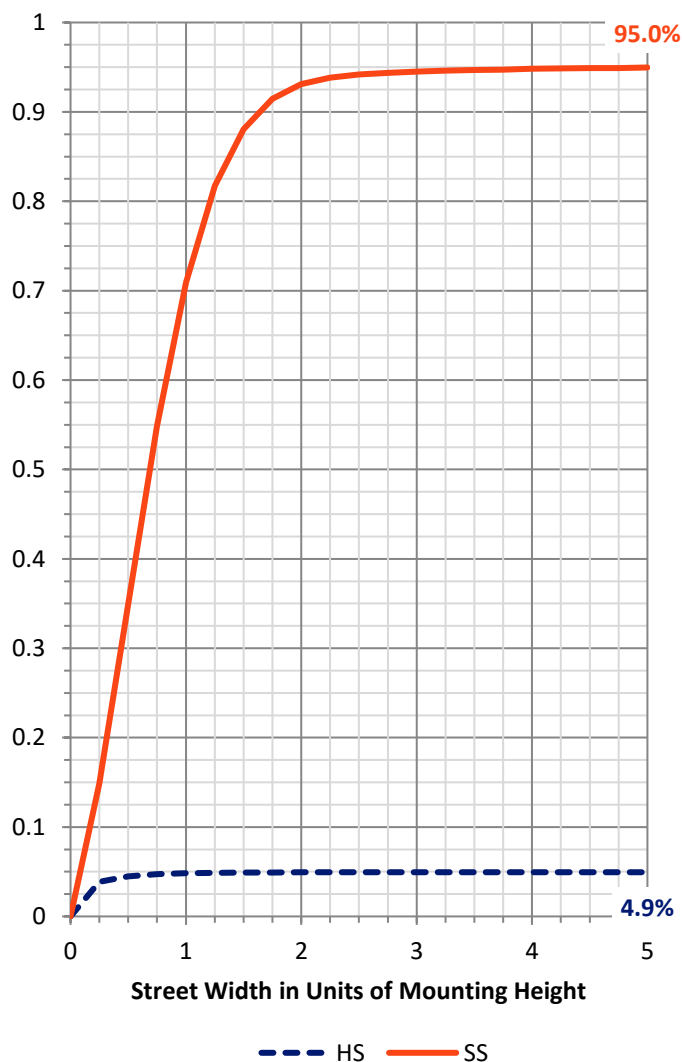
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2492.4	0.0	2492.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	47699.6	0.0	47699.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	50192.0	0.0	50192.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.4	1.1
10°-20°	2098.8	4.2
20°-30°	4270.3	8.5
30°-40°	7411.9	14.8
40°-50°	10472.1	20.9
50°-60°	11875.9	23.7
60°-70°	9849.9	19.6
70°-80°	3567.9	7.1
80°-90°	115.7	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°	50192.0	100.0
0°-180°	50192.0	100.0

Coefficient of Utilization

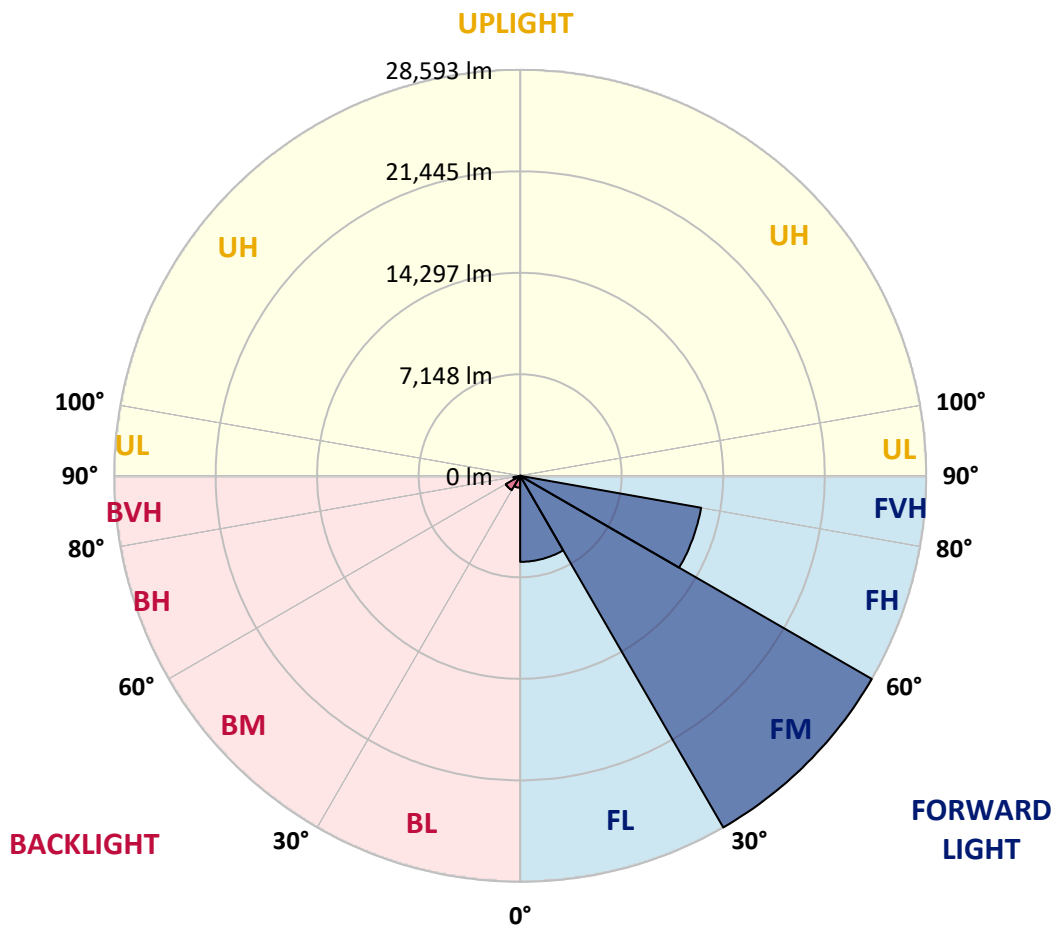


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6058.0	12.1			
FM (30°-60°)	28593.4	57.0			
FH (60°-80°)	12936.2	25.8			G5
FVH (80°-90°)	112.1	0.2			G2/225
BL (0°-30°)	840.6	1.7	B2/1000		
BM (30°-60°)	1166.5	2.3	B2/2500		
BH (60°-80°)	481.7	1.0	B1/500		G1/500
BVH (80°-90°)	3.6	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4257.7	4257.7	4257.7	4257.7	4257.7	4257.7	4257.7	4257.7	4257.7	4257.7	4257.7
2.5°	6355.8	6212.9	6245.9	6153.5	5986.3	5643.3	5350.8	5073.7	4750.4	4739.4	4473.3
5°	8570.5	8449.5	8434.1	8247.2	7943.7	7360.9	6793.5	6146.9	5425.5	5372.8	4807.5
7.5°	10580.6	10483.8	10448.6	10226.5	9661.3	9093.9	8354.9	7404.9	6276.6	6179.9	5258.4
10°	12124.4	12078.2	12087.0	11928.7	11444.9	10917.0	9947.2	8735.4	7242.1	7092.6	5799.4
12.5°	13294.4	13305.4	13384.6	13287.8	13017.3	12625.9	11590.0	10153.9	8310.9	8106.4	6417.4
15°	14154.3	14209.3	14354.5	14475.4	14455.6	14116.9	13166.9	11594.4	9445.8	9219.2	7105.8
17.5°	14710.7	14772.3	14983.4	15251.8	15498.1	15418.9	14688.7	12984.3	10593.8	10332.0	7842.5
20°	15199.0	15271.5	15498.1	15852.1	16311.8	16410.8	15931.3	14332.5	11739.6	11420.7	8603.4
22.5°	16256.8	16254.6	16393.2	16599.9	17037.5	17292.7	16989.2	15583.8	12872.2	12540.1	9379.8
25°	18170.1	18097.6	18049.2	17886.4	17983.2	18141.6	17972.2	16753.8	14011.4	13674.9	10167.1
27.5°	20444.2	20488.2	20096.7	19659.0	19320.4	19157.6	18880.5	17838.1	15106.6	14737.1	10936.8
30°	22843.5	22856.7	22394.9	21836.3	21090.7	20472.8	19993.3	18873.9	16232.6	15830.2	11684.6
32.5°	25007.6	24921.8	24464.4	23703.4	22762.2	22067.2	21071.0	20030.7	17424.6	17035.3	12515.9
35°	26723.0	26621.8	26065.4	25372.7	24396.2	23696.8	22498.3	21185.3	18678.2	18297.7	13349.4
37.5°	27976.6	27857.8	27286.0	26573.5	25731.1	25324.3	24154.3	22441.1	20046.1	19637.0	14226.9
40°	28412.0	28308.7	27950.2	27429.0	26751.6	26659.2	25911.5	23886.0	21535.0	21099.5	15221.0
42.5°	28152.5	28051.3	27923.8	27747.9	27466.4	27554.3	27569.7	25533.2	23188.8	22760.0	16318.4
45°	27123.3	27033.1	27165.1	27422.4	27772.0	28207.5	29082.8	27303.6	25036.2	24578.7	17587.3
47.5°	25608.0	25542.0	25907.1	26549.3	27571.9	28772.7	30466.1	29164.2	27110.1	26685.6	19170.8
50°	23452.7	23441.7	24171.9	25344.1	26916.5	29045.4	31895.6	31279.8	29991.1	29544.6	21372.2
52.5°	20096.7	20118.7	21554.8	23430.7	25766.3	28860.7	32814.9	33998.1	33342.7	32878.7	23279.0
55°	16901.2	17033.1	18051.4	20756.5	24002.5	28174.5	33131.6	35267.1	35192.3	34752.4	24339.0
57.5°	13771.7	14011.4	14992.2	17519.2	21427.2	26593.3	32957.9	35816.9	36569.0	36232.5	25737.7
60°	10380.4	10490.4	11620.8	13982.8	18121.8	23707.8	31697.7	36116.0	38451.6	38218.5	27767.6
62.5°	6604.3	6879.2	7882.1	10160.5	14110.3	19700.8	29573.2	36111.6	40807.0	40934.5	30386.9
65°	3479.2	3800.3	4332.5	6296.4	9696.5	15225.4	26377.7	35772.9	43696.8	43874.9	32434.4
67.5°	1876.0	1968.3	2249.8	3268.1	5623.5	10314.5	21682.3	34101.5	45370.4	45605.7	32720.3
70°	1372.3	1422.9	1528.5	1807.8	2830.4	5990.7	15821.4	30312.2	43212.9	43125.0	29071.8
72.5°	1053.4	1132.6	1211.8	1323.9	1627.4	3197.7	9850.4	23736.4	34479.7	33899.1	21730.7
75°	831.3	844.5	956.7	1057.8	1220.6	1821.0	4374.3	13824.4	21044.6	19670.0	11268.9
77.5°	664.2	673.0	738.9	826.9	980.9	1196.4	1354.7	5438.7	6718.7	5995.1	2445.6
80°	393.7	415.7	549.8	637.8	813.7	754.3	494.8	1181.0	1049.0	950.1	411.3
82.5°	219.9	237.5	310.1	503.6	567.4	360.7	246.3	318.9	246.3	239.7	116.6
85°	0.0	11.0	200.1	312.3	230.9	79.2	103.4	105.6	72.6	68.2	46.2
87.5°	0.0	0.0	61.6	59.4	8.8	13.2	24.2	35.2	28.6	28.6	24.2
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°	4257.7	4257.7	4257.7	4257.7	4257.7	4257.7	4257.7	4257.7	4257.7	4257.7	4257.7
2.5°	4341.3	4222.5	3998.2	3778.3	3593.6	3441.8	3305.5	3250.5	3206.5	3199.9	3164.7
5°	4534.8	4295.1	3866.3	3514.4	3279.1	3111.9	2969.0	2881.0	2812.8	2786.4	2762.2
7.5°	4827.3	4464.5	3848.7	3444.0	3162.5	2881.0	2617.1	2331.2	2153.1	2084.9	2045.3
10°	5183.6	4688.8	3914.7	3424.2	2931.6	2337.8	1900.1	1537.3	1389.9	1341.5	1328.3
12.5°	5599.3	4968.1	4029.0	3301.1	2439.0	1660.4	1310.7	1187.6	1154.6	1139.2	1139.2
15°	6076.5	5273.8	4110.4	2944.8	1803.4	1255.8	1134.8	1077.6	1042.4	1022.6	1024.8
17.5°	6564.7	5572.9	4070.8	2428.0	1330.5	1117.2	1027.0	965.5	917.1	897.3	892.9
20°	7057.4	5850.0	3850.9	1807.8	1126.0	1013.9	912.7	844.5	796.1	776.3	771.9
22.5°	7567.6	6085.3	3463.8	1326.1	1011.7	899.5	800.5	732.3	686.2	668.6	659.8
25°	8064.6	6276.6	2922.8	1073.2	903.9	791.7	697.2	633.4	591.6	574.0	571.8
27.5°	8528.7	6397.6	2296.0	947.9	809.3	695.0	609.2	552.0	516.8	503.6	501.4
30°	8946.5	6408.6	1697.8	855.5	725.8	611.4	532.2	481.6	450.8	437.6	433.3
32.5°	9368.8	6316.2	1236.0	771.9	648.8	538.8	461.8	422.3	400.3	389.3	389.3
35°	9766.8	6102.9	963.3	699.4	574.0	468.4	406.9	378.3	365.1	354.1	354.1
37.5°	10156.1	5797.2	818.1	635.6	503.6	409.1	358.5	340.9	329.9	318.9	318.9
40°	10552.0	5412.3	743.3	576.2	446.4	362.9	318.9	303.5	292.5	283.7	281.5
42.5°	11038.0	4968.1	695.0	521.2	395.9	321.1	281.5	263.9	255.1	246.3	241.9
45°	11601.0	4585.4	655.4	466.2	354.1	285.9	244.1	226.5	213.3	202.3	200.1
47.5°	12412.5	4308.3	602.6	406.9	314.5	248.5	211.1	191.3	171.5	160.5	158.3
50°	13448.4	4079.6	534.4	354.1	274.9	211.1	175.9	151.7	134.2	123.2	123.2
52.5°	13963.0	3780.5	472.8	307.9	230.9	178.1	143.0	114.4	105.6	94.6	94.6
55°	14169.7	3551.8	411.3	261.7	191.3	147.3	112.2	88.0	81.4	74.8	72.6
57.5°	14750.3	3485.8	358.5	222.1	158.3	116.6	85.8	66.0	61.6	52.8	52.8
60°	15685.0	3518.8	310.1	189.1	127.6	90.2	63.8	50.6	46.2	37.4	37.4
62.5°	16694.5	3477.0	261.7	162.7	99.0	66.0	44.0	37.4	37.4	22.0	19.8
65°	16888.0	3096.5	224.3	134.2	77.0	48.4	28.6	24.2	33.0	4.4	0.0
67.5°	15674.0	2401.6	193.5	103.4	57.2	37.4	22.0	11.0	28.6	0.0	0.0
70°	12533.5	1526.3	156.1	74.8	44.0	30.8	17.6	4.4	22.0	0.0	0.0
72.5°	8863.0	886.3	123.2	52.8	37.4	24.2	13.2	0.0	13.2	0.0	0.0
75°	4482.1	472.8	77.0	39.6	28.6	17.6	8.8	0.0	2.2	0.0	0.0
77.5°	969.9	219.9	48.4	28.6	19.8	11.0	4.4	0.0	0.0	0.0	0.0
80°	211.1	96.8	30.8	17.6	11.0	6.6	0.0	0.0	0.0	0.0	0.0
82.5°	77.0	50.6	15.4	8.8	4.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	41.8	26.4	8.8	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.0	8.8	2.2	2.2	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)