

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: P323323

Luminaire Tested: **GAN-SA9B-827-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323323
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31107 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 374
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

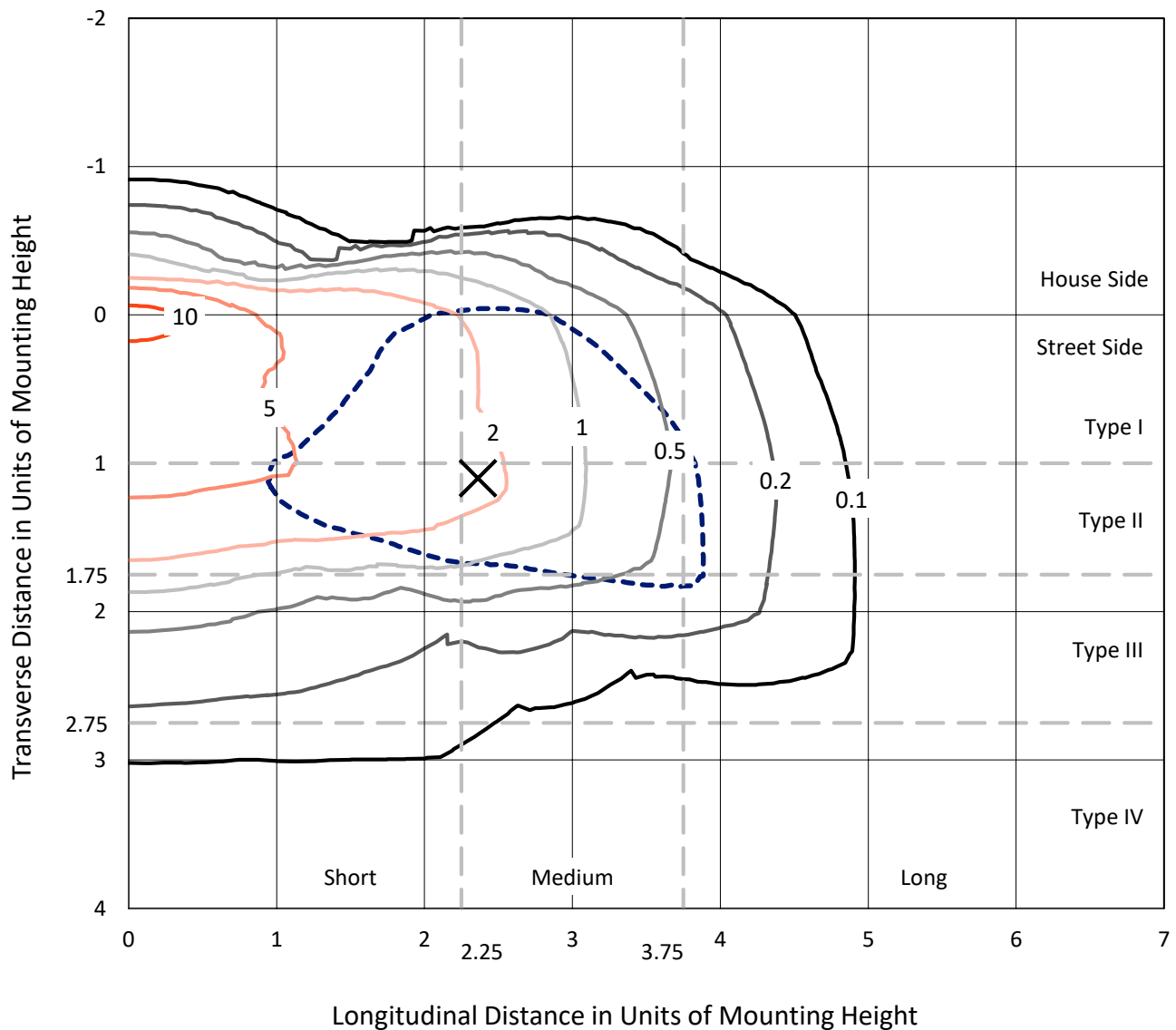


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Iso-Footcandle Lines of Horizontal Illumination

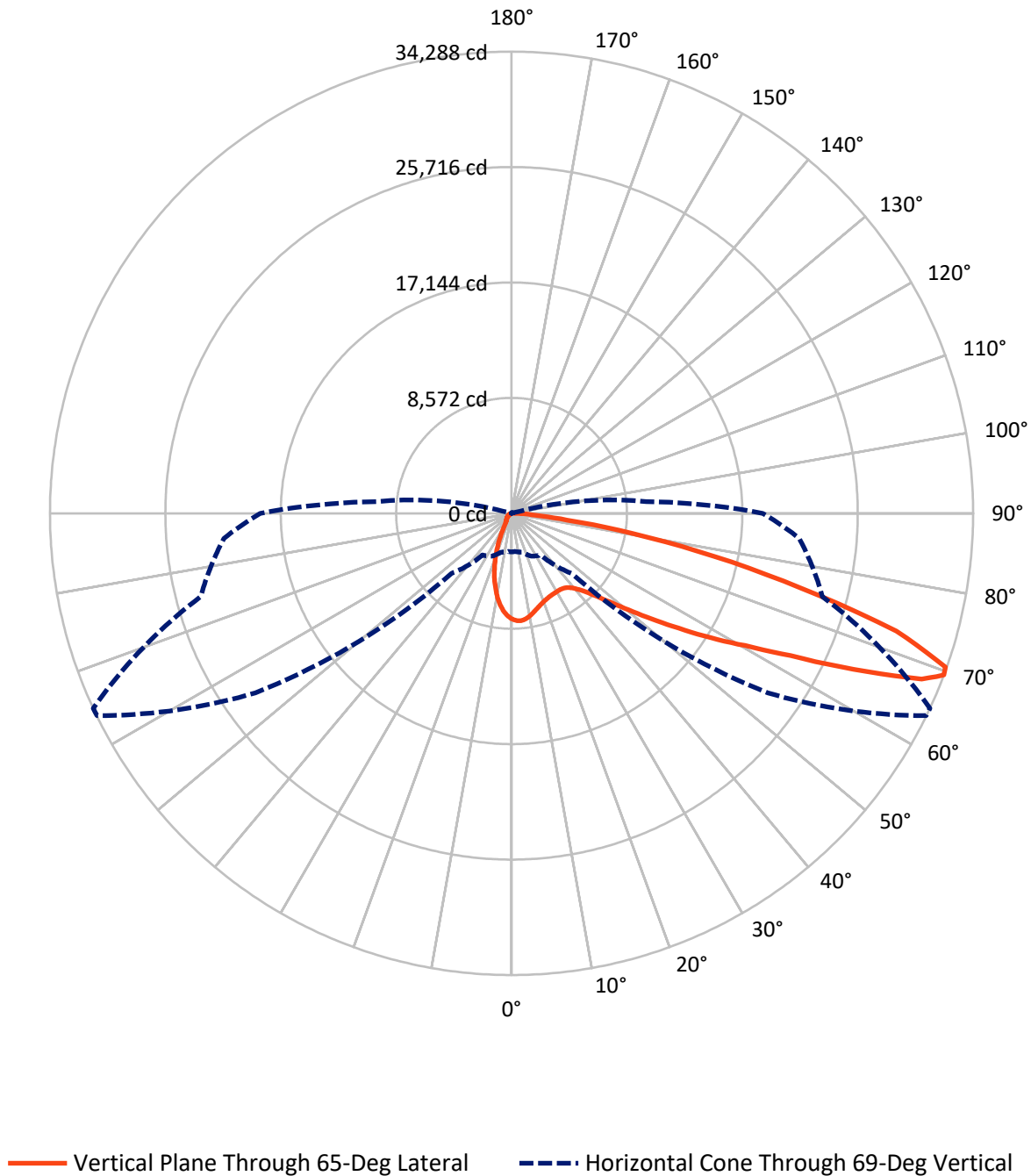
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3666.8	0.0	3666.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	27440.2	0.0	27440.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	31107.0	0.0	31107.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	657.3	2.1
10°-20°	1438.9	4.6
20°-30°	1993.0	6.4
30°-40°	2778.8	8.9
40°-50°	4319.2	13.9
50°-60°	6934.0	22.3
60°-70°	7843.5	25.2
70°-80°	4606.5	14.8
80°-90°	535.9	1.7
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°	31107.0	100.0
0°-180°	31107.0	100.0

Coefficient of Utilization



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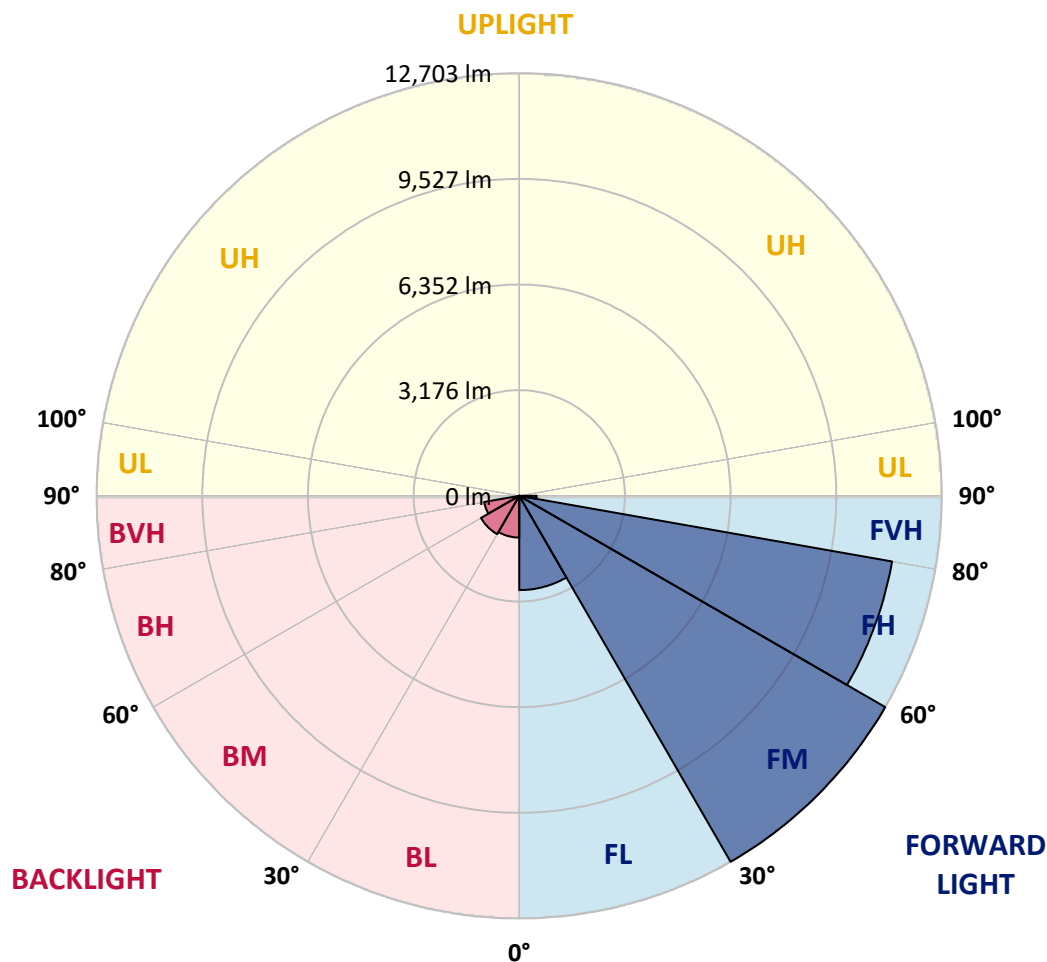
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2834.6	9.1			
FM	(30°-60°)	12703.2	40.8			
FH	(60°-80°)	11378.6	36.6			G4/12000
FVH	(80°-90°)	523.8	1.7			G4/750
BL	(0°-30°)	1254.6	4.0	B3/2500		
BM	(30°-60°)	1328.7	4.3	B2/2500		
BH	(60°-80°)	1071.4	3.4	B3/2500		G3/2500
BVH	(80°-90°)	12.1	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	7860.8	7860.8	7860.8	7860.8	7860.8	7860.8	7860.8	7860.8	7860.8	7860.8	7860.8
2.5°	7930.6	7910.8	7926.6	7960.8	7977.9	7977.9	7991.1	7975.3	7980.6	7942.4	7887.1
5°	7434.3	7404.0	7447.5	7543.6	7662.0	7763.4	7913.4	7992.4	8000.3	8001.6	7937.1
7.5°	6899.9	6872.3	6936.8	7050.0	7202.7	7390.9	7652.8	7881.9	7895.0	8018.7	7971.4
10°	6465.5	6445.8	6520.8	6641.9	6820.9	7031.5	7352.7	7671.2	7709.4	7983.2	7966.1
12.5°	6120.7	6104.9	6176.0	6315.5	6498.4	6731.4	7067.1	7437.0	7488.3	7902.9	7939.8
15°	5869.3	5866.6	5925.9	6060.1	6262.8	6480.0	6823.6	7219.8	7279.0	7816.0	7935.8
17.5°	5737.6	5741.6	5785.0	5899.5	6073.3	6289.2	6618.2	7036.8	7101.3	7738.4	7955.6
20°	5724.5	5728.4	5752.1	5816.6	5957.5	6148.3	6451.1	6882.8	6949.9	7680.5	7987.2
22.5°	5840.3	5837.7	5844.3	5837.7	5916.7	6061.4	6340.5	6764.3	6842.0	7642.3	8012.2
25°	6062.8	6058.8	6056.2	6007.5	5954.8	6032.5	6294.4	6697.2	6770.9	7614.7	8026.6
27.5°	6372.1	6369.5	6365.5	6285.2	6127.3	6078.6	6299.7	6672.2	6734.1	7592.3	8024.0
30°	6778.8	6797.2	6792.0	6680.1	6434.0	6219.4	6355.0	6659.0	6713.0	7548.8	7996.4
32.5°	7256.6	7293.5	7322.4	7202.7	6894.6	6498.4	6482.7	6673.5	6713.0	7515.9	7946.4
35°	7752.9	7800.2	7906.9	7864.7	7459.3	6918.3	6702.5	6760.4	6793.3	7534.4	7922.7
37.5°	8241.2	8297.8	8529.5	8651.9	8199.1	7473.8	7044.7	6974.9	6992.1	7646.2	7949.0
40°	8808.5	8894.1	9245.5	9443.0	9082.3	8217.5	7556.7	7343.5	7350.1	7892.4	8071.4
42.5°	9553.5	9641.7	10022.1	10331.4	10077.4	9157.3	8251.7	7906.9	7900.3	8353.1	8359.7
45°	10461.8	10553.9	10947.5	11291.0	11176.5	10270.9	9141.5	8729.5	8721.6	9079.7	8905.9
47.5°	11491.1	11581.9	11933.3	12287.4	12411.2	11571.4	10274.8	9852.3	9833.9	10089.2	9749.6
50°	12374.3	12433.5	12757.3	13233.8	13791.9	13169.3	11684.6	11277.8	11258.1	11430.5	10988.3
52.5°	12695.5	12729.7	13058.8	13726.1	15118.7	15333.3	13536.6	13012.7	12998.2	13073.2	12637.6
55°	12045.2	12107.1	12511.2	13501.0	15837.4	17778.9	15874.3	15160.9	15051.6	14889.7	14361.9
57.5°	10273.5	10372.2	10806.6	12122.9	15501.8	19719.1	19309.8	17590.7	17430.1	16440.3	15763.7
60°	7697.6	7818.7	8179.3	9599.6	13710.3	20410.2	23063.8	20298.3	19936.3	17674.9	17052.3
62.5°	5282.2	5342.8	5587.6	6512.9	10097.1	19278.2	26204.4	23924.6	23263.8	19017.5	18446.3
65°	4034.4	4055.4	4155.5	4474.0	6012.7	15659.7	27453.5	28709.3	27910.3	20623.4	19892.9
67.5°	3251.2	3234.1	3372.3	3827.7	4026.5	9553.5	25996.4	33235.9	32862.1	22770.2	21348.7
69°	2866.8	2843.2	2984.0	3513.1	3781.7	6315.5	23240.1	34264.0	34287.6	23903.6	21448.7
70°	2579.9	2595.7	2735.2	3326.2	3698.7	4957.1	20607.6	34002.0	34188.9	24327.4	20848.5
72.5°	1723.0	1765.1	2045.5	2761.5	3556.6	3751.4	12442.7	29177.9	29896.6	23373.1	17886.9
75°	971.4	1003.0	1336.0	2082.3	3351.2	3572.4	6572.2	21496.1	22191.1	19545.4	13793.2
77.5°	476.5	493.6	755.5	1343.9	2802.3	3403.9	3727.7	14601.4	15395.2	12757.3	7801.6
80°	201.4	210.6	377.8	829.3	2003.4	3248.6	2768.1	8986.2	9084.9	4997.9	2078.4
82.5°	77.7	80.3	159.3	517.3	1272.8	2532.5	2315.3	4260.8	4158.1	941.1	473.9
85°	9.2	10.5	57.9	310.6	708.2	1303.1	1881.0	1836.2	1699.3	186.9	243.5
87.5°	0.0	0.0	3.9	94.8	210.6	610.8	978.0	762.1	687.1	60.5	126.4
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°	7860.8	7860.8	7860.8	7860.8	7860.8	7860.8	7860.8	7860.8	7860.8	7860.8	7860.8
2.5°	7841.0	7827.9	7756.8	7654.1	7556.7	7435.6	7319.8	7250.0	7194.8	7157.9	7201.3
5°	7862.1	7804.2	7588.3	7311.9	7040.8	6735.4	6451.1	6210.2	6115.4	6010.1	6057.5
7.5°	7855.5	7746.3	7358.0	6865.7	6368.1	5853.5	5366.5	4991.3	4796.5	4605.6	4654.3
10°	7822.6	7638.3	7050.0	6320.8	5575.7	4836.0	4144.9	3619.8	3326.2	3060.3	3098.5
12.5°	7750.2	7493.6	6686.7	5696.8	4700.4	3725.1	2915.5	2242.9	1882.3	1723.0	1742.7
15°	7706.8	7352.7	6302.3	5065.0	3765.9	2594.4	1782.2	1325.5	1161.0	1108.3	1114.9
17.5°	7685.7	7217.1	5904.8	4342.4	2810.2	1651.9	1151.7	1016.2	980.6	971.4	974.0
20°	7664.7	7080.2	5495.4	3627.7	1936.2	1110.9	946.4	906.9	893.8	881.9	884.5
22.5°	7629.1	6948.6	5055.8	2903.7	1305.7	901.6	852.9	814.8	787.1	772.7	775.3
25°	7585.7	6810.4	4607.0	2162.6	953.0	804.2	758.2	704.2	671.3	645.0	646.3
27.5°	7515.9	6640.6	4143.6	1574.3	800.3	720.0	658.1	598.9	543.6	513.3	513.3
30°	7418.5	6448.4	3629.0	1126.7	717.4	637.1	562.0	488.3	429.1	401.5	398.8
32.5°	7310.6	6248.4	3109.0	854.3	651.6	559.4	473.9	396.2	343.5	321.2	319.9
35°	7218.5	6032.5	2590.4	716.1	585.7	484.4	390.9	325.1	283.0	264.6	263.3
37.5°	7159.2	5816.6	2085.0	639.7	526.5	414.6	327.8	268.5	238.2	223.8	222.5
40°	7150.0	5656.0	1623.0	581.8	471.2	352.8	273.8	227.7	200.1	184.3	183.0
42.5°	7269.8	5563.9	1245.2	533.1	414.6	298.8	233.0	194.8	165.9	150.1	148.7
45°	7584.4	5592.9	958.2	489.7	358.0	252.7	197.4	161.9	135.6	123.7	121.1
47.5°	8158.3	5792.9	762.1	446.2	304.1	214.6	168.5	134.3	111.9	100.0	98.7
50°	9179.7	6262.8	637.1	398.8	254.0	183.0	139.5	109.3	90.8	80.3	79.0
52.5°	10535.5	7100.0	568.6	352.8	210.6	155.3	114.5	86.9	71.1	63.2	61.9
55°	12030.8	8113.5	523.9	302.7	172.4	129.0	90.8	68.4	55.3	48.7	46.1
57.5°	13490.5	8991.5	481.8	254.0	143.5	105.3	72.4	54.0	43.4	36.9	35.5
60°	14831.8	9798.3	433.1	204.0	117.1	82.9	56.6	42.1	34.2	27.6	27.6
62.5°	16267.8	10422.3	365.9	159.3	96.1	63.2	46.1	38.2	27.6	23.7	22.4
65°	17789.5	10885.6	286.9	123.7	75.0	47.4	38.2	39.5	22.4	17.1	15.8
67.5°	18913.6	10793.5	211.9	97.4	57.9	36.9	36.9	42.1	19.7	13.2	11.8
69°	18666.1	10044.5	177.7	84.2	50.0	31.6	34.2	42.1	18.4	11.8	10.5
70°	17948.7	9215.2	156.6	75.0	44.8	29.0	32.9	40.8	17.1	11.8	10.5
72.5°	14947.6	6940.7	122.4	56.6	35.5	23.7	27.6	35.5	17.1	11.8	9.2
75°	11243.6	4442.4	93.5	40.8	26.3	18.4	21.1	26.3	17.1	10.5	9.2
77.5°	6118.0	1601.9	67.1	27.6	18.4	14.5	14.5	19.7	15.8	7.9	5.3
80°	1572.9	402.8	42.1	18.4	14.5	10.5	9.2	13.2	9.2	1.3	0.0
82.5°	388.3	90.8	22.4	13.2	10.5	3.9	3.9	6.6	3.9	0.0	0.0
85°	213.2	44.8	14.5	9.2	5.3	0.0	0.0	1.3	0.0	0.0	0.0
87.5°	109.3	13.2	3.9	2.6	1.3	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)