

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: P323593

Luminaire Tested: **GAN-SA9A-760-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323593
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9A-760-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35592 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

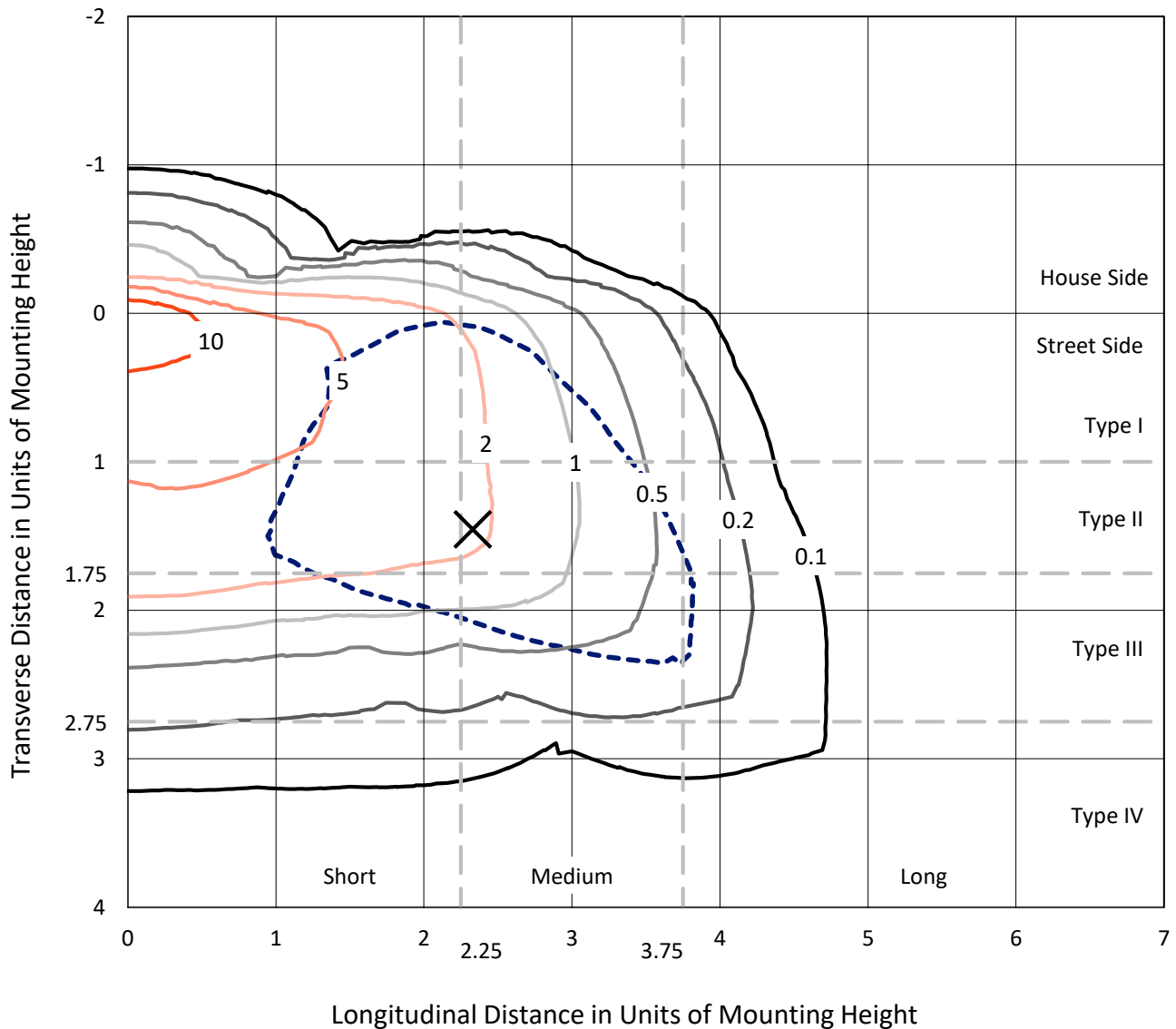
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

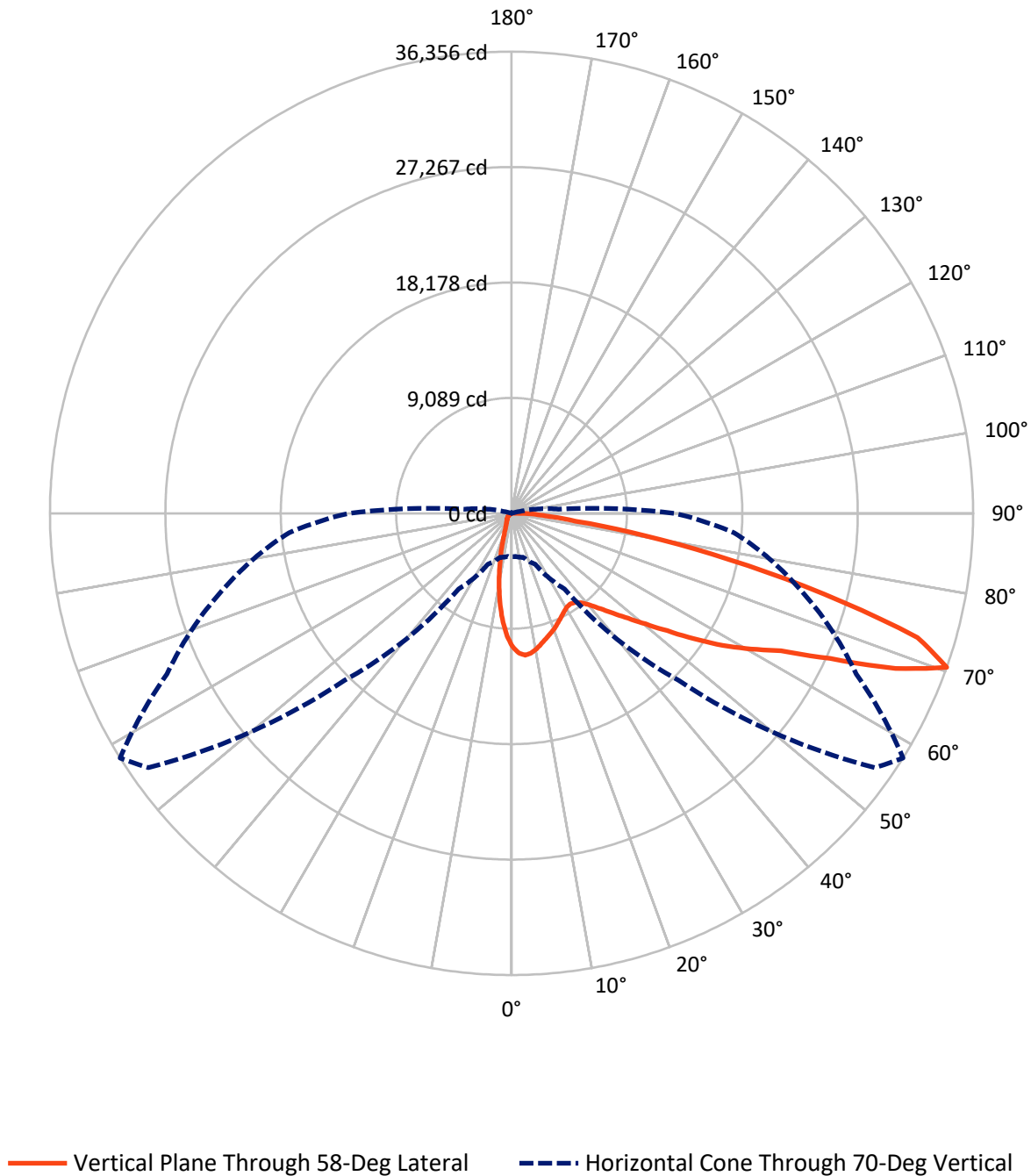
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 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	3045.9	0.0	3045.9
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	32546.1	0.0	32546.1
	% Fixture	91.4	0.0	91.4
Total	Lumens	35592.0	0.0	35592.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	859.8	2.4
10°-20°	1804.4	5.1
20°-30°	2372.2	6.7
30°-40°	3141.7	8.8
40°-50°	4695.9	13.2
50°-60°	7522.6	21.1
60°-70°	9482.2	26.6
70°-80°	5114.6	14.4
80°-90°	598.7	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°	35592.0	100.0
0°-180°	35592.0	100.0

Coefficient of Utilization



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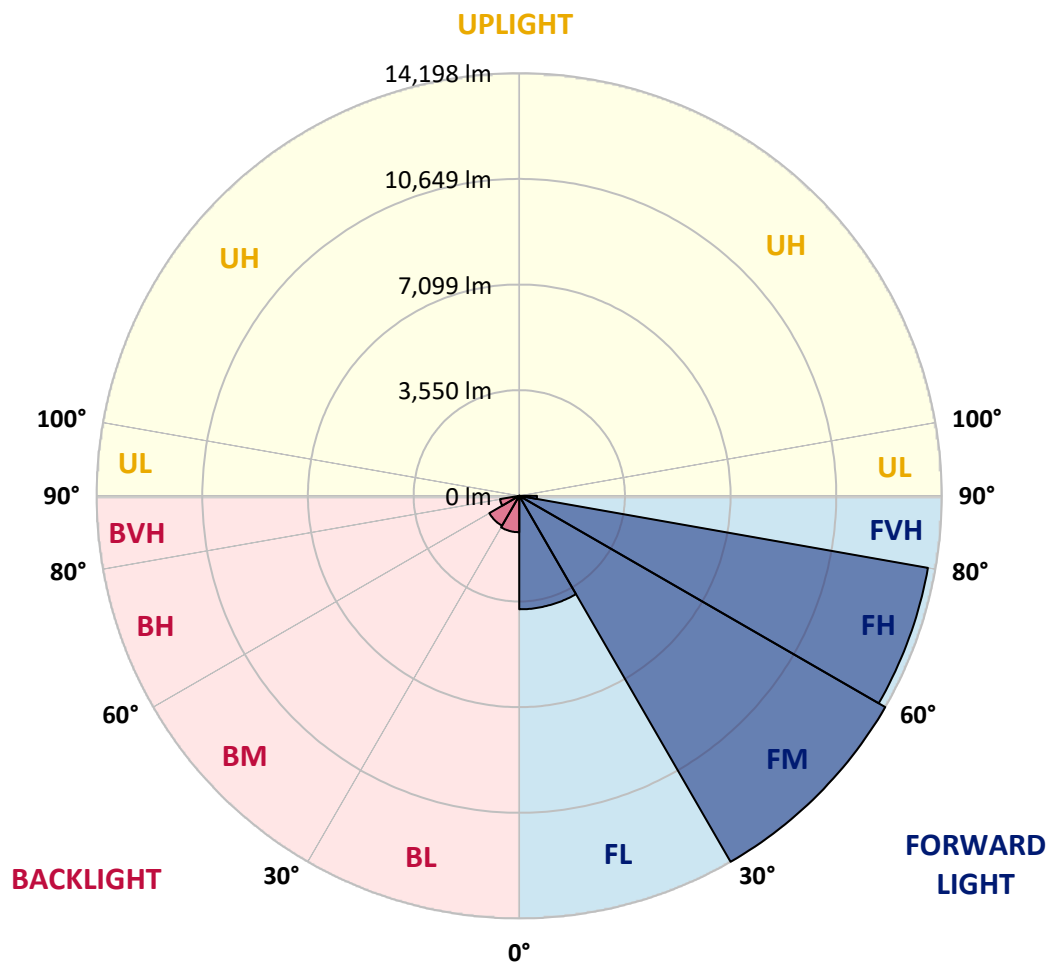
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3812.6	10.7			
FM	(30°-60°)	14198.2	39.9			
FH	(60°-80°)	13941.8	39.2			G5
FVH	(80°-90°)	593.5	1.7			G4/750
BL	(0°-30°)	1223.7	3.4	B3/2500		
BM	(30°-60°)	1162.0	3.3	B2/2500		
BH	(60°-80°)	655.0	1.8	B2/1000		G2/1000
BVH	(80°-90°)	5.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10513.7	10513.7	10513.7	10513.7	10513.7	10513.7	10513.7	10513.7	10513.7	10513.7	10513.7
2.5°	11385.4	11357.3	11346.9	11329.2	11261.1	11194.5	11062.8	11025.8	10942.9	10746.1	10537.4
5°	11394.3	11392.8	11423.9	11416.5	11392.8	11361.7	11267.0	11218.2	11077.6	10796.4	10414.6
7.5°	10845.2	10873.3	10942.9	10999.1	11064.3	11148.6	11160.5	11113.1	10997.7	10694.3	10188.1
10°	10108.2	10152.6	10250.3	10361.3	10531.5	10700.2	10851.1	10845.2	10805.3	10506.3	9915.8
12.5°	9369.7	9421.5	9534.0	9698.2	9939.5	10214.8	10484.1	10521.1	10587.7	10337.6	9664.2
15°	8722.9	8767.3	8878.3	9079.6	9378.6	9748.6	10143.7	10211.8	10383.5	10205.9	9454.0
17.5°	8173.9	8202.0	8283.4	8506.9	8853.2	9301.6	9815.2	9948.4	10204.4	10102.3	9272.0
20°	7790.6	7795.0	7848.3	8005.2	8351.5	8853.2	9474.8	9665.7	10015.0	10013.5	9084.1
22.5°	7601.1	7586.3	7596.7	7687.0	7941.5	8425.5	9134.4	9360.8	9844.8	9938.0	8893.1
25°	7565.6	7553.8	7524.2	7536.0	7689.9	8051.0	8791.0	9053.0	9695.3	9892.1	8727.4
27.5°	7676.6	7688.4	7638.1	7584.8	7596.7	7808.3	8486.1	8789.5	9573.9	9892.1	8610.5
30°	7900.1	7906.0	7869.0	7799.4	7706.2	7740.2	8274.5	8577.9	9513.2	9960.2	8536.5
32.5°	8147.2	8179.8	8175.4	8119.1	7985.9	7848.3	8224.2	8500.9	9508.8	10111.2	8529.1
35°	8453.6	8490.6	8552.7	8540.9	8401.8	8175.4	8395.9	8613.4	9596.1	10359.8	8609.0
37.5°	8779.2	8835.4	8968.6	9032.3	8942.0	8685.9	8780.7	8936.1	9830.0	10762.3	8811.7
40°	9094.4	9158.1	9400.8	9650.9	9582.8	9319.4	9363.8	9488.1	10245.8	11341.0	9196.5
42.5°	9403.7	9498.4	9855.1	10266.6	10348.0	10137.8	10161.5	10260.6	10863.0	12137.2	9825.5
45°	9773.7	9880.3	10408.6	10916.3	11133.8	11042.1	11142.7	11207.8	11669.6	13189.5	10673.5
47.5°	10316.9	10439.7	11087.9	11666.6	12048.4	12107.6	12310.4	12353.3	12689.3	14414.9	11779.1
50°	11376.5	11410.6	11996.6	12522.0	13072.6	13427.8	13658.6	13691.2	13923.6	15754.3	13159.9
52.5°	12710.0	12732.2	13063.7	13415.9	14042.0	14767.1	15307.3	15353.2	15402.0	17059.6	14522.9
55°	14034.6	14031.6	14250.6	14457.8	15174.1	16227.9	17400.0	17428.1	17077.4	18298.4	15564.8
57.5°	14861.9	14941.8	15274.8	15541.2	16541.6	17892.8	19519.3	19622.9	18837.1	19215.9	16594.9
60°	14598.4	14636.9	15375.4	16361.1	18245.1	20259.3	21663.8	21690.4	20160.2	20132.0	17897.3
62.5°	12437.7	12458.4	13618.7	15650.7	19107.9	23328.8	24250.8	23817.2	21681.6	21403.3	19455.7
65°	8524.6	8659.3	9628.7	12140.2	17522.8	25254.2	28255.6	27537.8	24000.7	23235.5	20864.6
67.5°	5020.1	4991.9	5471.4	7321.4	12869.8	23975.5	33321.5	32608.2	27163.4	24462.4	20451.7
70°	3429.1	3409.9	3593.4	4432.5	7265.2	18598.8	34915.5	36355.5	29956.1	23636.6	17601.3
72.5°	2447.9	2458.2	2729.1	3443.9	4561.3	10836.3	30025.6	33434.0	29081.4	20605.6	13378.9
75°	1662.0	1690.1	2077.9	2825.3	3998.9	5512.9	21307.1	25415.5	23681.0	14975.8	7689.9
77.5°	893.9	925.0	1382.3	2276.2	3615.6	3830.2	13706.0	17491.8	14875.2	6732.4	2228.8
80°	373.0	390.7	646.7	1654.6	3124.2	3364.0	8064.4	10606.9	6338.7	1327.5	497.3
82.5°	161.3	170.2	269.4	987.1	2335.4	2840.1	4269.7	5102.9	1921.0	291.6	250.1
85°	31.1	32.6	111.0	522.4	1490.3	1602.8	2767.5	2712.8	862.8	125.8	182.0
87.5°	0.0	0.0	26.6	164.3	438.1	873.2	1688.6	1667.9	293.0	60.7	68.1
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°	10513.7	10513.7	10513.7	10513.7	10513.7	10513.7	10513.7	10513.7	10513.7	10513.7	10513.7
2.5°	10430.8	10328.7	10114.1	9849.2	9646.4	9423.0	9245.4	9020.4	8922.7	8927.2	8873.9
5°	10197.0	9986.8	9511.8	8912.4	8450.6	7974.1	7564.1	7155.7	6914.4	6836.0	6762.0
7.5°	9862.5	9529.5	8771.8	7848.3	7066.9	6303.2	5638.7	5054.1	4684.1	4503.5	4437.0
10°	9485.1	9017.5	7920.8	6704.3	5588.4	4555.3	3694.0	2945.1	2646.2	2443.4	2391.6
12.5°	9153.6	8520.2	7089.1	5530.6	4206.1	2959.9	2138.6	1672.4	1469.6	1389.7	1376.4
15°	8841.3	8055.5	6288.4	4468.0	2912.6	1821.8	1360.1	1201.7	1154.4	1141.1	1141.1
17.5°	8546.8	7613.0	5505.5	3421.7	1926.9	1277.2	1126.3	1090.7	1075.9	1074.5	1075.9
20°	8239.0	7170.5	4735.9	2507.1	1345.3	1081.9	1040.4	1021.2	1016.7	1016.7	1016.7
22.5°	7944.5	6727.9	3987.0	1790.8	1078.9	987.1	966.4	953.1	948.7	947.2	944.2
25°	7661.8	6307.6	3255.9	1265.4	947.2	904.3	886.5	868.7	855.4	848.0	843.6
27.5°	7429.5	5933.2	2575.1	1015.3	855.4	818.4	796.2	769.6	737.0	722.2	716.3
30°	7244.5	5591.3	1984.6	856.9	769.6	732.6	698.5	652.7	605.3	580.1	578.7
32.5°	7099.4	5255.4	1506.6	757.7	692.6	646.7	597.9	540.2	485.4	457.3	455.8
35°	7028.4	4959.4	1151.4	685.2	624.5	566.8	506.1	442.5	389.2	362.6	359.6
37.5°	7075.7	4709.3	898.3	624.5	566.8	500.2	429.2	362.6	315.2	291.6	290.1
40°	7248.9	4549.4	729.6	572.7	518.0	436.6	359.6	297.5	257.5	238.3	236.8
42.5°	7617.4	4490.2	623.1	529.8	470.6	377.4	299.0	245.7	208.7	195.4	192.4
45°	8233.1	4577.5	550.5	488.4	421.8	321.2	247.2	201.3	168.7	158.4	156.9
47.5°	9053.0	4806.9	498.7	448.4	377.4	270.8	205.7	162.8	137.6	127.3	125.8
50°	10109.7	5171.0	455.8	408.5	336.0	229.4	170.2	128.8	106.6	99.2	99.2
52.5°	11259.6	5604.6	417.4	371.5	294.5	190.9	137.6	99.2	84.4	75.5	75.5
55°	12209.8	5983.5	375.9	343.4	244.2	158.4	105.1	75.5	62.2	57.7	57.7
57.5°	13158.4	6387.6	328.6	294.5	195.4	128.8	79.9	56.2	45.9	42.9	42.9
60°	14388.3	6881.9	282.7	239.8	153.9	97.7	59.2	40.0	34.0	32.6	32.6
62.5°	15741.0	7171.9	241.2	192.4	119.9	72.5	42.9	26.6	25.2	25.2	23.7
65°	16568.3	6762.0	202.8	153.9	93.2	54.8	28.1	19.2	22.2	20.7	17.8
67.5°	15513.0	5293.9	165.8	119.9	72.5	41.4	17.8	13.3	23.7	19.2	14.8
70°	12844.7	3705.8	128.8	84.4	57.7	35.5	11.8	8.9	25.2	19.2	11.8
72.5°	9612.4	2480.4	102.1	56.2	42.9	31.1	10.4	4.4	22.2	16.3	10.4
75°	5252.4	999.0	81.4	35.5	26.6	22.2	7.4	3.0	14.8	11.8	7.4
77.5°	1382.3	263.4	59.2	23.7	14.8	8.9	4.4	1.5	7.4	5.9	3.0
80°	352.2	102.1	38.5	16.3	10.4	4.4	0.0	0.0	1.5	0.0	0.0
82.5°	188.0	42.9	23.7	11.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	142.1	28.1	13.3	7.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	54.8	8.9	4.4	0.0	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)