

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: P323123

Luminaire Tested: **GAN-SA9B-727-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323123
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-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 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: 35388 lumens
Efficiency: N/A
Efficacy: 94.6 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): 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

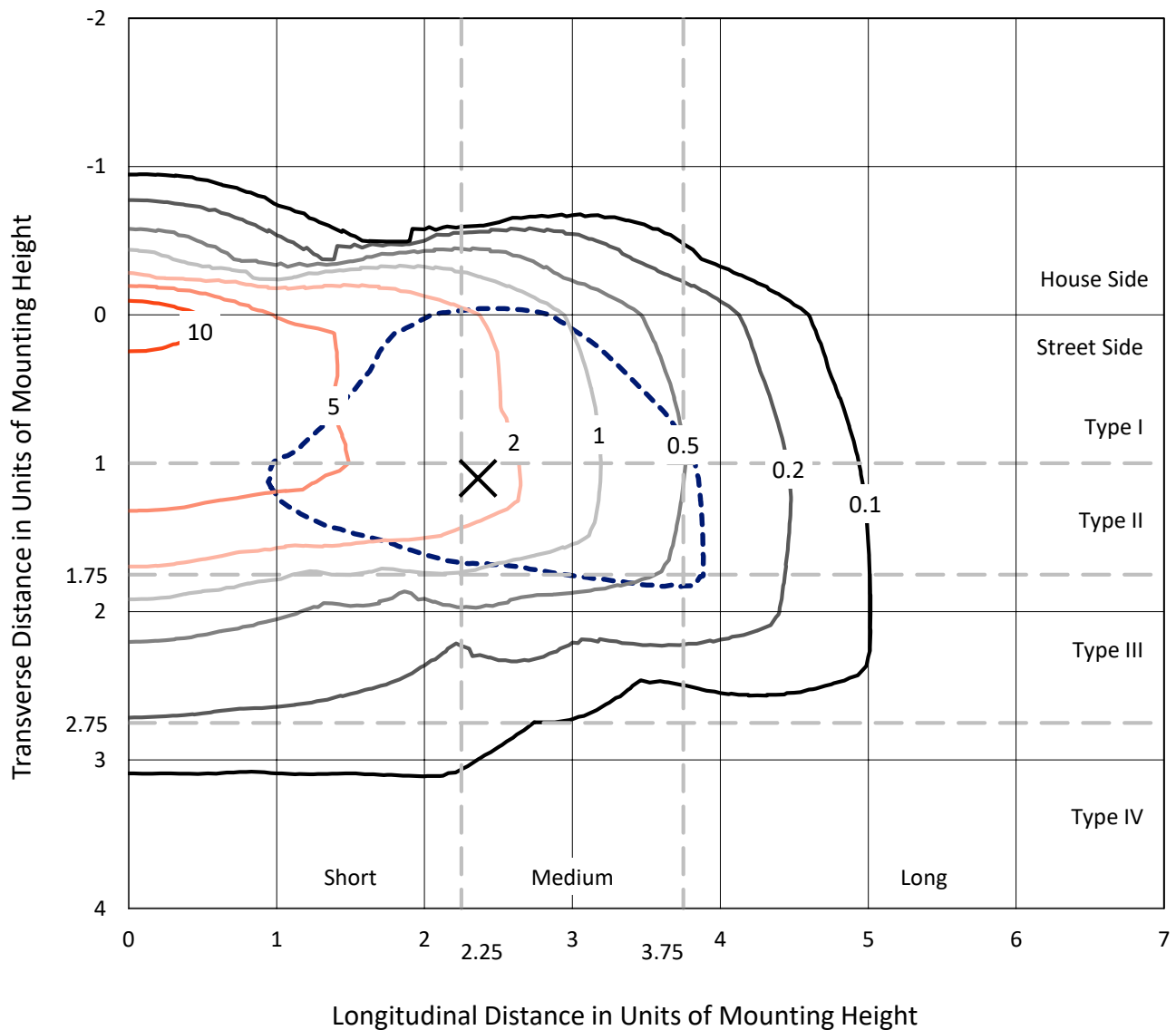


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Iso-Footcandle Lines of Horizontal Illumination

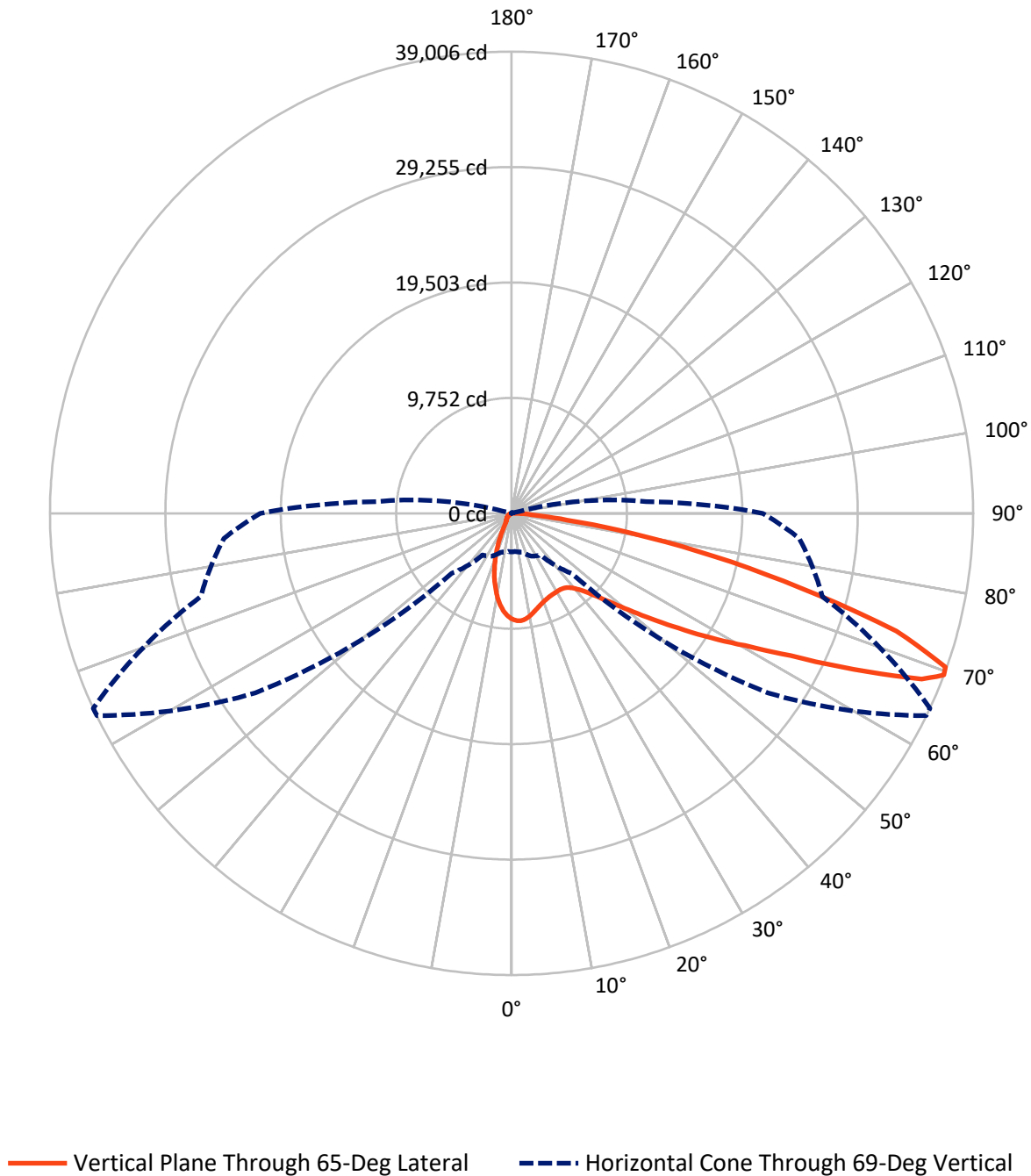
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 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	4171.4	0.0	4171.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	31216.6	0.0	31216.6
	% Fixture	88.2	0.0	88.2
Total	Lumens	35388.0	0.0	35388.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	747.8	2.1
10°-20°	1636.9	4.6
20°-30°	2267.2	6.4
30°-40°	3161.2	8.9
40°-50°	4913.6	13.9
50°-60°	7888.2	22.3
60°-70°	8922.9	25.2
70°-80°	5240.5	14.8
80°-90°	609.6	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°	35388.0	100.0
0°-180°	35388.0	100.0

Coefficient of Utilization



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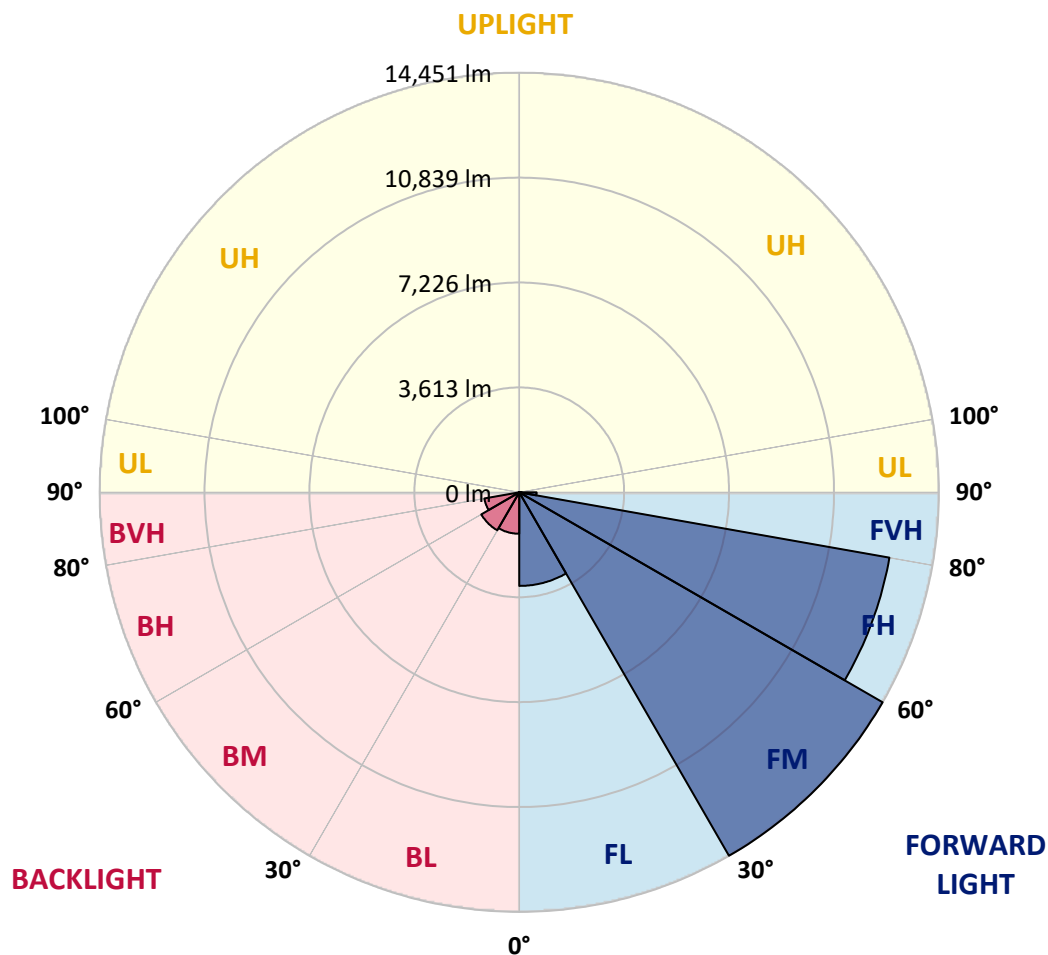
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3224.7	9.1			
FM	(30°-60°)	14451.4	40.8			
FH	(60°-80°)	12944.6	36.6			G5
FVH	(80°-90°)	595.9	1.7			G4/750
BL	(0°-30°)	1427.3	4.0	B3/2500		
BM	(30°-60°)	1511.6	4.3	B2/2500		
BH	(60°-80°)	1218.8	3.4	B3/2500		G3/2500
BVH	(80°-90°)	13.7	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-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	8942.6	8942.6	8942.6	8942.6	8942.6	8942.6	8942.6	8942.6	8942.6	8942.6	8942.6
2.5°	9022.0	8999.5	9017.5	9056.4	9075.9	9075.9	9090.9	9072.9	9078.9	9035.4	8972.6
5°	8457.4	8423.0	8472.4	8581.7	8716.5	8831.8	9002.5	9092.4	9101.3	9102.8	9029.5
7.5°	7849.5	7818.0	7891.4	8020.2	8193.9	8408.0	8706.0	8966.6	8981.5	9122.3	9068.4
10°	7355.3	7332.9	7418.2	7556.0	7759.6	7999.2	8364.6	8727.0	8770.4	9081.9	9062.4
12.5°	6963.0	6945.0	7025.9	7184.6	7392.8	7657.8	8039.7	8460.4	8518.8	8990.5	9032.5
15°	6677.0	6674.0	6741.4	6894.1	7124.7	7371.8	7762.6	8213.4	8280.7	8891.7	9028.0
17.5°	6527.3	6531.8	6581.2	6711.4	6909.1	7154.7	7529.0	8005.2	8078.6	8803.3	9050.4
20°	6512.3	6516.8	6543.7	6617.1	6777.3	6994.5	7338.9	7830.0	7906.4	8737.5	9086.4
22.5°	6644.1	6641.1	6648.6	6641.1	6730.9	6895.6	7213.1	7695.3	7783.6	8694.0	9114.8
25°	6897.1	6892.6	6889.6	6834.2	6774.3	6862.7	7160.7	7618.9	7702.7	8662.6	9131.3
27.5°	7249.0	7246.0	7241.5	7150.2	6970.5	6915.1	7166.7	7590.4	7660.8	8637.1	9128.3
30°	7711.7	7732.7	7726.7	7599.4	7319.4	7075.3	7229.6	7575.5	7636.9	8587.7	9096.8
32.5°	8255.3	8297.2	8330.2	8193.9	7843.5	7392.8	7374.8	7591.9	7636.9	8550.3	9039.9
35°	8819.8	8873.7	8995.0	8947.1	8485.9	7870.5	7624.9	7690.8	7728.2	8571.2	9013.0
37.5°	9375.4	9439.8	9703.3	9842.6	9327.4	8502.4	8014.2	7934.8	7954.3	8698.5	9042.9
40°	10020.8	10118.1	10517.9	10742.5	10332.2	9348.4	8596.7	8354.1	8361.6	8978.5	9182.2
42.5°	10868.3	10968.6	11401.4	11753.3	11464.3	10417.6	9387.3	8995.0	8987.5	9502.6	9510.1
45°	11901.5	12006.3	12454.1	12844.9	12714.6	11684.4	10399.6	9930.9	9921.9	10329.2	10131.6
47.5°	13072.5	13175.8	13575.6	13978.4	14119.2	13163.8	11688.9	11208.2	11187.2	11477.7	11091.4
50°	14077.3	14144.7	14513.0	15055.1	15690.0	14981.7	13292.6	12829.9	12807.5	13003.6	12500.5
52.5°	14442.6	14481.6	14855.9	15615.1	17199.4	17443.5	15399.5	14803.5	14787.1	14872.4	14376.8
55°	13702.9	13773.3	14233.0	15359.1	18017.0	20225.7	18058.9	17247.3	17123.0	16938.8	16338.4
57.5°	11687.4	11799.7	12293.8	13791.3	17635.1	22432.9	21967.2	20011.6	19828.9	18702.8	17933.1
60°	8756.9	8894.7	9305.0	10920.7	15597.2	23219.0	26237.8	23091.8	22680.0	20107.4	19399.1
62.5°	6009.2	6078.0	6356.6	7409.2	11486.7	21931.3	29810.7	27217.2	26465.5	21634.8	20984.9
65°	4589.6	4613.6	4727.4	5089.7	6840.2	17814.8	31231.7	32660.3	31751.4	23461.6	22630.6
67.5°	3698.6	3679.2	3836.4	4354.5	4580.6	10868.3	29574.1	37809.9	37384.7	25903.9	24286.7
69°	3261.4	3234.4	3394.7	3996.6	4302.1	7184.6	26438.5	38979.4	39006.4	27193.2	24400.5
70°	2934.9	2952.9	3111.6	3784.0	4207.8	5639.3	23443.7	38681.4	38894.1	27675.4	23717.7
72.5°	1960.1	2008.0	2327.0	3141.6	4046.0	4267.7	14155.1	33193.4	34011.0	26589.7	20348.5
75°	1105.1	1141.0	1519.9	2368.9	3812.4	4064.0	7476.6	24454.4	25245.1	22235.2	15691.5
77.5°	542.1	561.5	859.5	1528.9	3188.0	3872.3	4240.7	16610.9	17513.9	14513.0	8875.2
80°	229.1	239.6	429.8	943.4	2279.1	3695.6	3149.1	10222.9	10335.2	5685.7	2364.4
82.5°	88.3	91.3	181.2	588.5	1448.0	2881.0	2634.0	4847.2	4730.4	1070.7	539.1
85°	10.5	12.0	65.9	353.4	805.6	1482.4	2139.8	2088.9	1933.2	212.6	277.0
87.5°	0.0	0.0	4.5	107.8	239.6	694.8	1112.6	867.0	781.7	68.9	143.8
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°	8942.6	8942.6	8942.6	8942.6	8942.6	8942.6	8942.6	8942.6	8942.6	8942.6	8942.6
2.5°	8920.1	8905.2	8824.3	8707.5	8596.7	8458.9	8327.2	8247.8	8184.9	8143.0	8192.4
5°	8944.1	8878.2	8632.6	8318.2	8009.7	7662.3	7338.9	7064.8	6957.0	6837.2	6891.1
7.5°	8936.6	8812.3	8370.6	7810.6	7244.5	6659.0	6105.0	5678.2	5456.6	5239.5	5294.9
10°	8899.2	8689.5	8020.2	7190.6	6343.1	5501.5	4715.4	4117.9	3784.0	3481.5	3524.9
12.5°	8816.8	8524.8	7606.9	6480.8	5347.3	4237.7	3316.8	2551.6	2141.3	1960.1	1982.6
15°	8767.4	8364.6	7169.7	5762.1	4284.1	2951.4	2027.5	1507.9	1320.7	1260.8	1268.3
17.5°	8743.5	8210.4	6717.4	4940.0	3197.0	1879.3	1310.2	1156.0	1115.6	1105.1	1108.1
20°	8719.5	8054.6	6251.7	4126.9	2202.7	1263.8	1076.6	1031.7	1016.8	1003.3	1006.3
22.5°	8679.1	7904.9	5751.6	3303.3	1485.4	1025.7	970.3	926.9	895.5	879.0	882.0
25°	8629.6	7747.7	5241.0	2460.3	1084.1	914.9	862.5	801.1	763.7	733.7	735.2
27.5°	8550.3	7554.5	4713.9	1790.9	910.4	819.1	748.7	681.3	618.4	584.0	584.0
30°	8439.5	7335.9	4128.4	1281.8	816.1	724.8	639.4	555.5	488.2	456.7	453.7
32.5°	8316.7	7108.3	3536.9	971.8	741.2	636.4	539.1	450.7	390.8	365.4	363.9
35°	8211.9	6862.7	2946.9	814.6	666.4	551.1	444.7	369.9	321.9	301.0	299.5
37.5°	8144.5	6617.1	2371.9	727.7	599.0	471.7	372.9	305.5	271.0	254.6	253.1
40°	8134.0	6434.4	1846.3	661.9	536.1	401.3	311.5	259.1	227.6	209.6	208.1
42.5°	8270.3	6329.6	1416.6	606.5	471.7	339.9	265.0	221.6	188.7	170.7	169.2
45°	8628.2	6362.5	1090.1	557.0	407.3	287.5	224.6	184.2	154.2	140.8	137.8
47.5°	9281.0	6590.2	867.0	507.6	345.9	244.1	191.7	152.7	127.3	113.8	112.3
50°	10443.0	7124.7	724.8	453.7	289.0	208.1	158.7	124.3	103.3	91.3	89.8
52.5°	11985.4	8077.1	646.9	401.3	239.6	176.7	130.3	98.8	80.9	71.9	70.4
55°	13686.4	9230.1	596.0	344.4	196.2	146.7	103.3	77.9	62.9	55.4	52.4
57.5°	15347.1	10228.9	548.1	289.0	163.2	119.8	82.4	61.4	49.4	41.9	40.4
60°	16873.0	11146.8	492.7	232.1	133.3	94.3	64.4	47.9	38.9	31.4	31.4
62.5°	18506.6	11856.6	416.3	181.2	109.3	71.9	52.4	43.4	31.4	27.0	25.5
65°	20237.7	12383.7	326.4	140.8	85.4	53.9	43.4	44.9	25.5	19.5	18.0
67.5°	21516.5	12278.9	241.1	110.8	65.9	41.9	41.9	47.9	22.5	15.0	13.5
69°	21235.0	11426.8	202.2	95.8	56.9	35.9	38.9	47.9	21.0	13.5	12.0
70°	20418.9	10483.5	178.2	85.4	50.9	32.9	37.4	46.4	19.5	13.5	12.0
72.5°	17004.7	7895.9	139.3	64.4	40.4	27.0	31.4	40.4	19.5	13.5	10.5
75°	12791.0	5053.8	106.3	46.4	29.9	21.0	24.0	29.9	19.5	12.0	10.5
77.5°	6960.0	1822.4	76.4	31.4	21.0	16.5	16.5	22.5	18.0	9.0	6.0
80°	1789.4	458.2	47.9	21.0	16.5	12.0	10.5	15.0	10.5	1.5	0.0
82.5°	441.7	103.3	25.5	15.0	12.0	4.5	4.5	7.5	4.5	0.0	0.0
85°	242.6	50.9	16.5	10.5	6.0	0.0	0.0	1.5	0.0	0.0	0.0
87.5°	124.3	15.0	4.5	3.0	1.5	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)