

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: P323511

Luminaire Tested: **GAN-SA7A-740-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323511
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-SA7A-740-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 28161 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

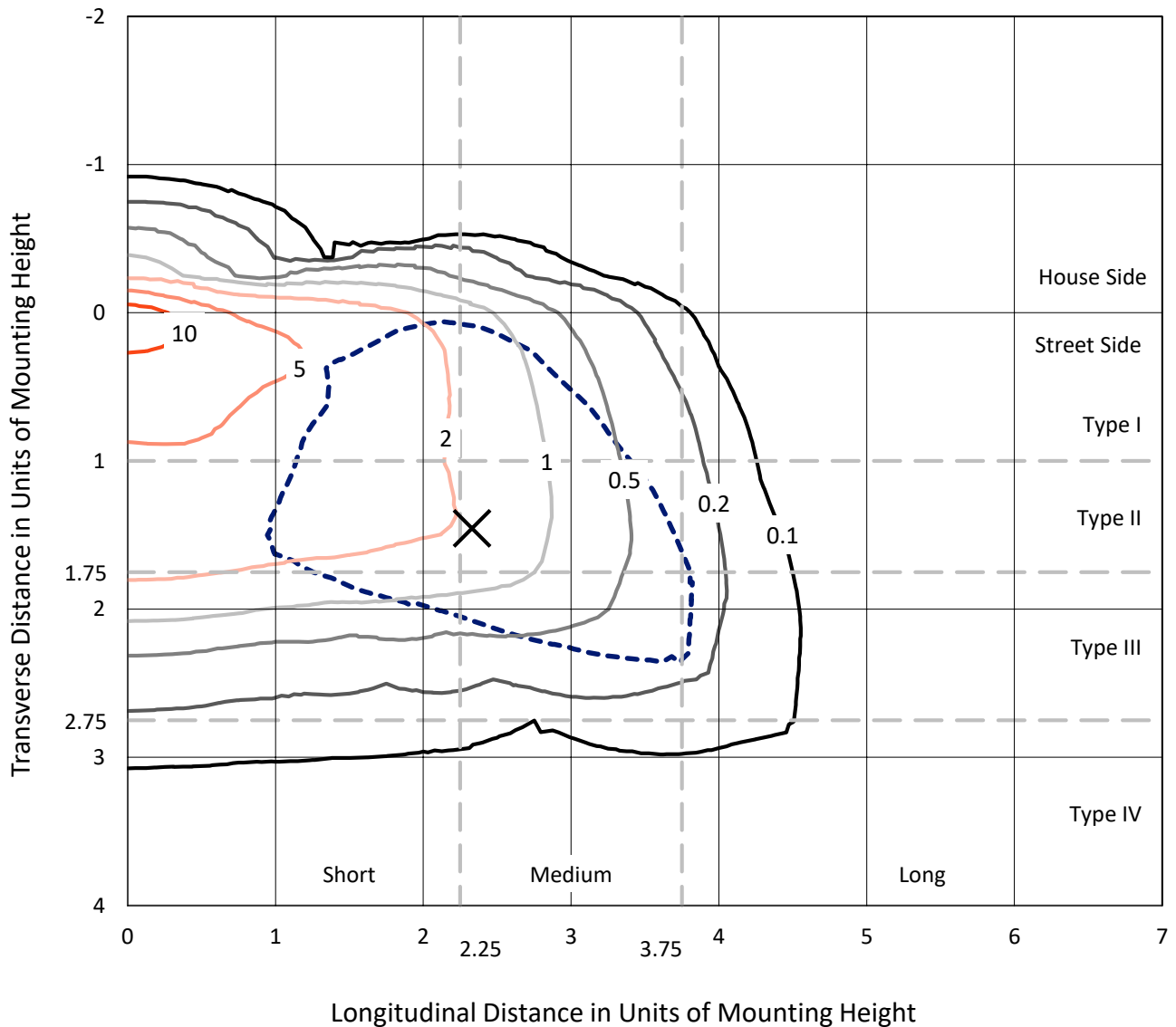
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

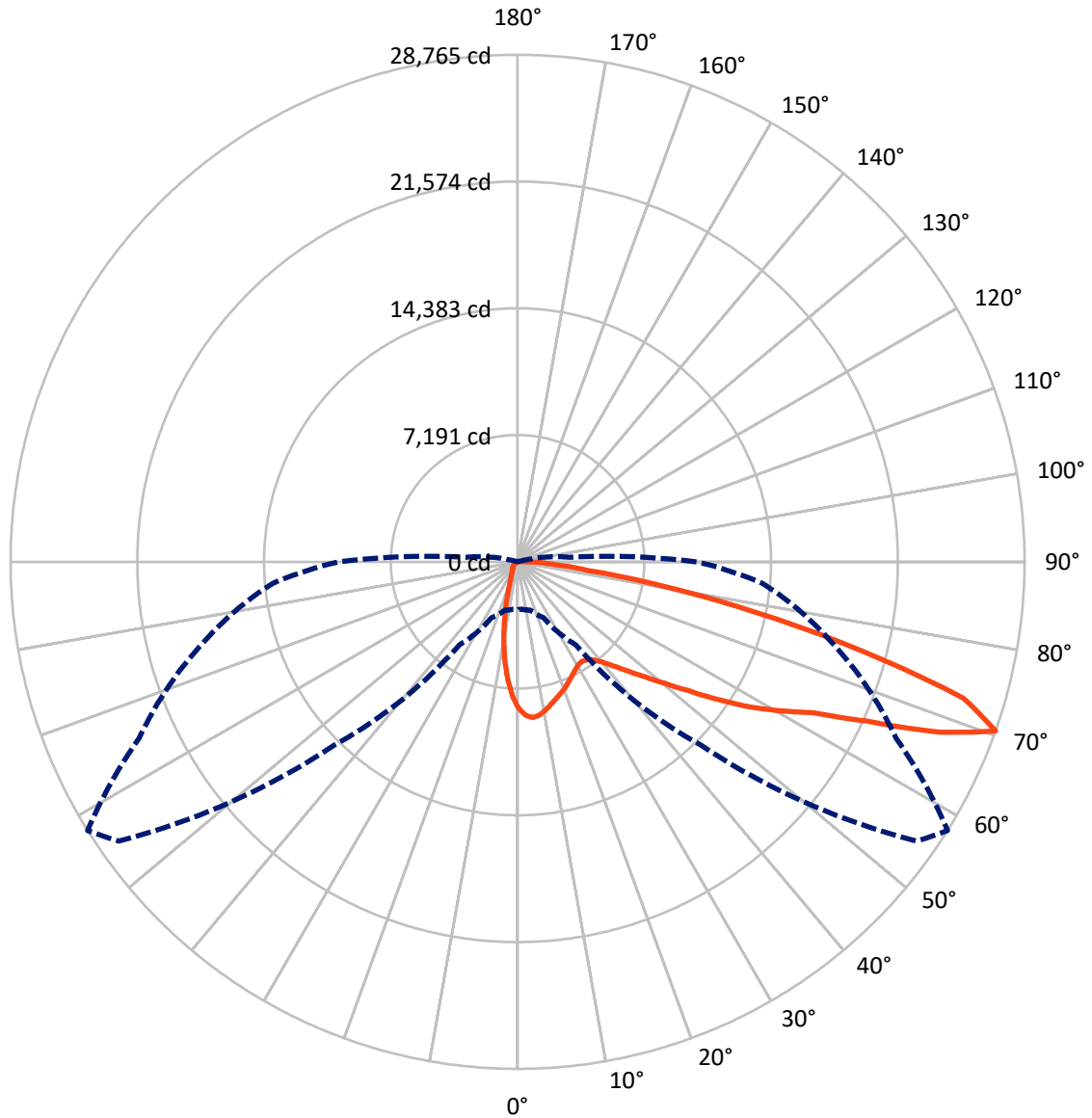
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2410.0	0.0	2410.0
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	25751.0	0.0	25751.0
	% Fixture	91.4	0.0	91.4
Total	Lumens	28161.0	0.0	28161.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	680.2	2.4
10°-20°	1427.7	5.1
20°-30°	1876.9	6.7
30°-40°	2485.8	8.8
40°-50°	3715.5	13.2
50°-60°	5952.0	21.1
60°-70°	7502.4	26.6
70°-80°	4046.8	14.4
80°-90°	473.7	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°	28161.0	100.0
0°-180°	28161.0	100.0

Coefficient of Utilization

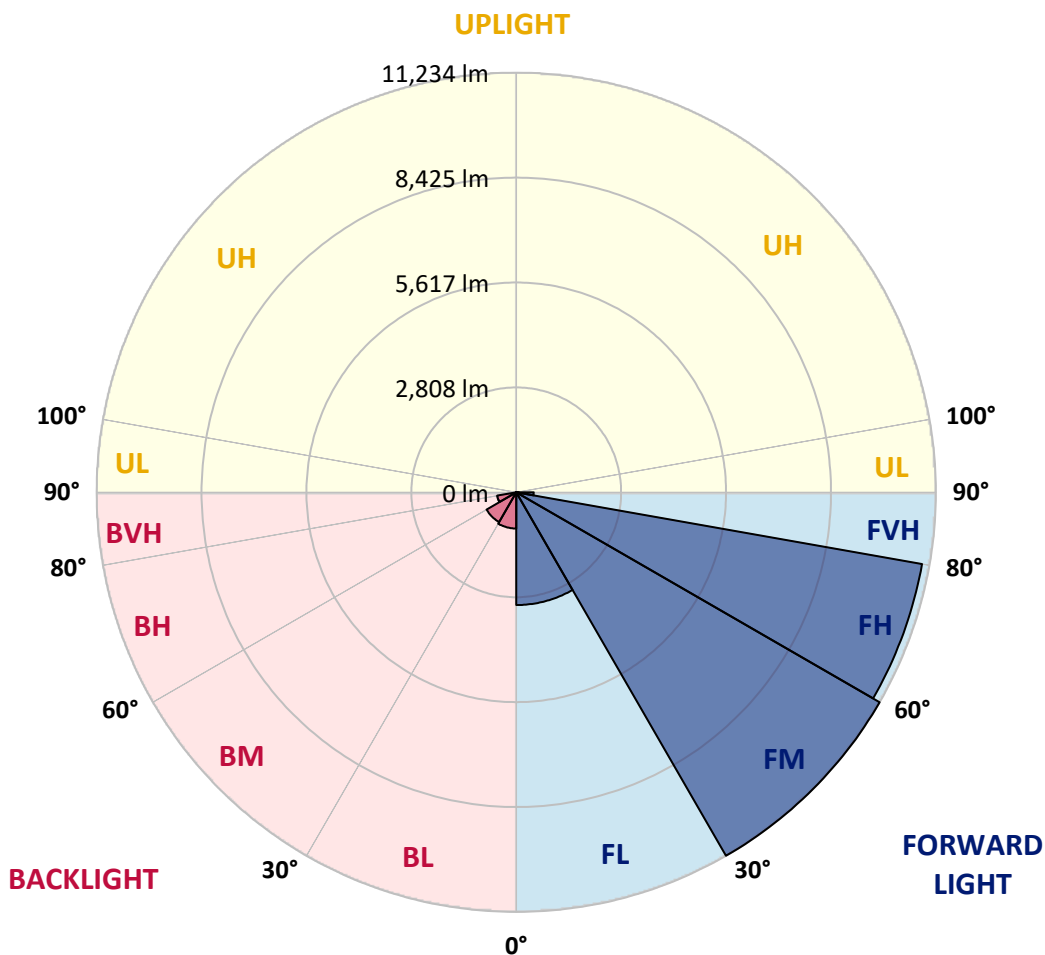


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3016.6	10.7			
FM (30°-60°)	11233.9	39.9			
FH (60°-80°)	11031.0	39.2			G4/12000
FVH (80°-90°)	469.6	1.7			G3/500
BL (0°-30°)	968.2	3.4	B2/1000		
BM (30°-60°)	919.4	3.3	B1/1000		
BH (60°-80°)	518.3	1.8	B2/1000		G2/1000
BVH (80°-90°)	4.1	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-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8318.6	8318.6	8318.6	8318.6	8318.6	8318.6	8318.6	8318.6	8318.6	8318.6	8318.6
2.5°	9008.3	8986.1	8977.9	8963.8	8910.0	8857.3	8753.1	8723.8	8658.2	8502.5	8337.4
5°	9015.4	9014.2	9038.8	9032.9	9014.2	8989.6	8914.7	8876.0	8764.8	8542.3	8240.2
7.5°	8580.9	8603.2	8658.2	8702.7	8754.2	8821.0	8830.3	8792.9	8701.5	8461.5	8061.0
10°	7997.8	8032.9	8110.2	8198.0	8332.7	8466.2	8585.6	8580.9	8549.3	8312.8	7845.6
12.5°	7413.5	7454.4	7543.4	7673.4	7864.3	8082.1	8295.2	8324.5	8377.2	8179.3	7646.5
15°	6901.7	6936.9	7024.7	7183.9	7420.5	7713.2	8025.9	8079.7	8215.6	8075.1	7480.2
17.5°	6467.3	6489.6	6554.0	6730.8	7004.8	7359.6	7765.9	7871.3	8073.9	7993.1	7336.2
20°	6164.0	6167.5	6209.7	6333.8	6607.8	7004.8	7496.6	7647.7	7924.0	7922.8	7187.5
22.5°	6014.1	6002.4	6010.6	6082.1	6283.5	6666.4	7227.3	7406.4	7789.3	7863.1	7036.4
25°	5986.0	5976.7	5953.3	5962.6	6084.4	6370.1	6955.6	7162.9	7671.1	7826.8	6905.3
27.5°	6073.9	6083.2	6043.4	6001.3	6010.6	6178.1	6714.4	6954.4	7575.1	7826.8	6812.7
30°	6250.7	6255.4	6226.1	6171.1	6097.3	6124.2	6546.9	6787.0	7527.0	7880.7	6754.2
32.5°	6446.2	6472.0	6468.5	6424.0	6318.6	6209.7	6507.1	6726.1	7523.5	8000.1	6748.3
35°	6688.6	6717.9	6767.1	6757.7	6647.6	6468.5	6643.0	6815.1	7592.6	8196.8	6811.6
37.5°	6946.2	6990.7	7096.1	7146.5	7075.0	6872.5	6947.4	7070.4	7777.6	8515.4	6972.0
40°	7195.7	7246.0	7438.1	7635.9	7582.1	7373.6	7408.8	7507.1	8106.7	8973.2	7276.5
42.5°	7440.4	7515.3	7797.5	8123.1	8187.5	8021.2	8039.9	8118.4	8595.0	9603.2	7774.1
45°	7733.1	7817.4	8235.5	8637.1	8809.3	8736.7	8816.3	8867.8	9233.2	10435.8	8445.1
47.5°	8162.9	8260.1	8773.0	9230.8	9532.9	9579.8	9740.2	9774.2	10040.0	11405.3	9319.8
50°	9001.3	9028.2	9491.9	9907.6	10343.2	10624.3	10807.0	10832.7	11016.6	12465.1	10412.3
52.5°	10056.4	10073.9	10336.2	10614.9	11110.2	11684.0	12111.4	12147.7	12186.4	13497.9	11490.8
55°	11104.4	11102.0	11275.3	11439.3	12006.0	12839.8	13767.2	13789.4	13511.9	14478.0	12315.2
57.5°	11759.0	11822.2	12085.7	12296.4	13088.0	14157.1	15444.0	15526.0	14904.2	15204.0	13130.2
60°	11550.5	11581.0	12165.3	12945.2	14435.8	16029.5	17140.8	17161.9	15951.1	15928.8	14160.6
62.5°	9840.9	9857.3	10775.3	12383.1	15118.5	18458.1	19187.6	18844.5	17154.8	16934.7	15393.7
65°	6744.8	6851.4	7618.4	9605.5	13864.4	19981.6	22356.3	21788.4	18989.7	18384.4	16508.4
67.5°	3972.0	3949.7	4329.1	5792.8	10182.8	18969.8	26364.6	25800.2	21492.1	19355.1	16181.7
70°	2713.2	2697.9	2843.1	3507.1	5748.3	14715.7	27625.7	28765.1	23701.8	18701.7	13926.4
72.5°	1936.8	1945.0	2159.3	2724.9	3609.0	8573.9	23756.8	26453.6	23009.7	16303.5	10585.6
75°	1315.0	1337.3	1644.1	2235.4	3164.0	4361.9	16858.6	20109.2	18736.8	11849.1	6084.4
77.5°	707.3	731.9	1093.7	1801.0	2860.7	3030.5	10844.4	13839.8	11769.5	5326.8	1763.5
80°	295.1	309.1	511.7	1309.2	2471.9	2661.6	6380.7	8392.4	5015.3	1050.4	393.4
82.5°	127.6	134.7	213.1	781.0	1847.8	2247.1	3378.3	4037.5	1519.9	230.7	197.9
85°	24.6	25.8	87.8	413.4	1179.2	1268.2	2189.7	2146.4	682.7	99.5	144.0
87.5°	0.0	0.0	21.1	130.0	346.6	690.9	1336.1	1319.7	231.9	48.0	53.9
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°	8318.6	8318.6	8318.6	8318.6	8318.6	8318.6	8318.6	8318.6	8318.6	8318.6	8318.6
2.5°	8253.1	8172.3	8002.5	7792.9	7632.4	7455.6	7315.1	7137.1	7059.8	7063.3	7021.2
5°	8068.0	7901.8	7525.9	7051.6	6686.3	6309.2	5984.9	5661.7	5470.8	5408.7	5350.2
7.5°	7803.4	7539.9	6940.4	6209.7	5591.4	4987.2	4461.4	3998.9	3706.1	3563.3	3510.6
10°	7504.8	7134.8	6267.1	5304.5	4421.6	3604.3	2922.8	2330.2	2093.7	1933.3	1892.3
12.5°	7242.5	6741.3	5609.0	4375.9	3327.9	2342.0	1692.1	1323.2	1162.8	1099.5	1089.0
15°	6995.4	6373.6	4975.5	3535.2	2304.5	1441.5	1076.1	950.8	913.4	902.8	902.8
17.5°	6762.4	6023.5	4356.0	2707.3	1524.6	1010.6	891.1	863.0	851.3	850.1	851.3
20°	6518.8	5673.4	3747.1	1983.6	1064.4	856.0	823.2	808.0	804.5	804.5	804.5
22.5°	6285.8	5323.3	3154.6	1416.9	853.6	781.0	764.6	754.1	750.6	749.4	747.1
25°	6062.2	4990.7	2576.2	1001.2	749.4	715.5	701.4	687.4	676.8	671.0	667.5
27.5°	5878.3	4694.4	2037.5	803.3	676.8	647.6	630.0	608.9	583.1	571.4	566.8
30°	5731.9	4424.0	1570.3	678.0	608.9	579.6	552.7	516.4	478.9	459.0	457.9
32.5°	5617.2	4158.1	1192.1	599.5	548.0	511.7	473.1	427.4	384.1	361.8	360.7
35°	5561.0	3923.9	911.0	542.2	494.2	448.5	400.5	350.1	308.0	286.9	284.5
37.5°	5598.4	3726.1	710.8	494.2	448.5	395.8	339.6	286.9	249.4	230.7	229.5
40°	5735.4	3599.6	577.3	453.2	409.8	345.4	284.5	235.4	203.8	188.5	187.4
42.5°	6027.0	3552.7	493.0	419.2	372.4	298.6	236.5	194.4	165.1	154.6	152.2
45°	6514.1	3621.8	435.6	386.4	333.7	254.1	195.6	159.3	133.5	125.3	124.1
47.5°	7162.9	3803.3	394.6	354.8	298.6	214.3	162.8	128.8	108.9	100.7	99.5
50°	7998.9	4091.4	360.7	323.2	265.8	181.5	134.7	101.9	84.3	78.5	78.5
52.5°	8908.8	4434.5	330.2	293.9	233.0	151.1	108.9	78.5	66.7	59.7	59.7
55°	9660.6	4734.3	297.4	271.7	193.2	125.3	83.1	59.7	49.2	45.7	45.7
57.5°	10411.2	5053.9	260.0	233.0	154.6	101.9	63.2	44.5	36.3	34.0	34.0
60°	11384.2	5445.0	223.7	189.7	121.8	77.3	46.8	31.6	26.9	25.8	25.8
62.5°	12454.5	5674.6	190.9	152.2	94.8	57.4	34.0	21.1	19.9	19.9	18.7
65°	13109.1	5350.2	160.4	121.8	73.8	43.3	22.2	15.2	17.6	16.4	14.1
67.5°	12274.2	4188.6	131.1	94.8	57.4	32.8	14.1	10.5	18.7	15.2	11.7
70°	10162.9	2932.1	101.9	66.7	45.7	28.1	9.4	7.0	19.9	15.2	9.4
72.5°	7605.5	1962.6	80.8	44.5	34.0	24.6	8.2	3.5	17.6	12.9	8.2
75°	4155.8	790.4	64.4	28.1	21.1	17.6	5.9	2.3	11.7	9.4	5.9
77.5°	1093.7	208.4	46.8	18.7	11.7	7.0	3.5	1.2	5.9	4.7	2.3
80°	278.7	80.8	30.4	12.9	8.2	3.5	0.0	0.0	1.2	0.0	0.0
82.5°	148.7	34.0	18.7	9.4	4.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	112.4	22.2	10.5	5.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	43.3	7.0	3.5	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)