

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: P323754

Luminaire Tested: **GAN-SA0A-727-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323754
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31307 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

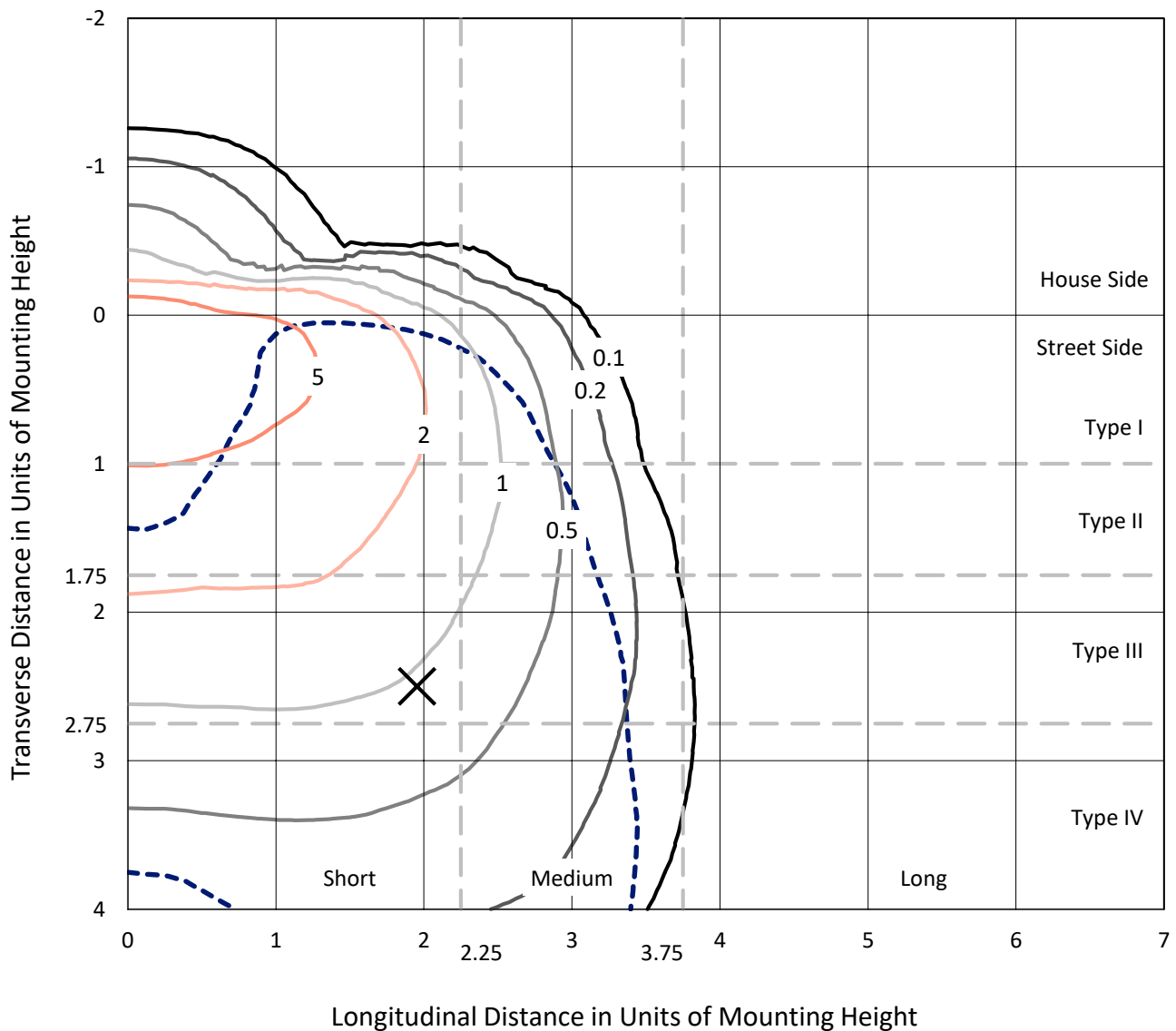
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

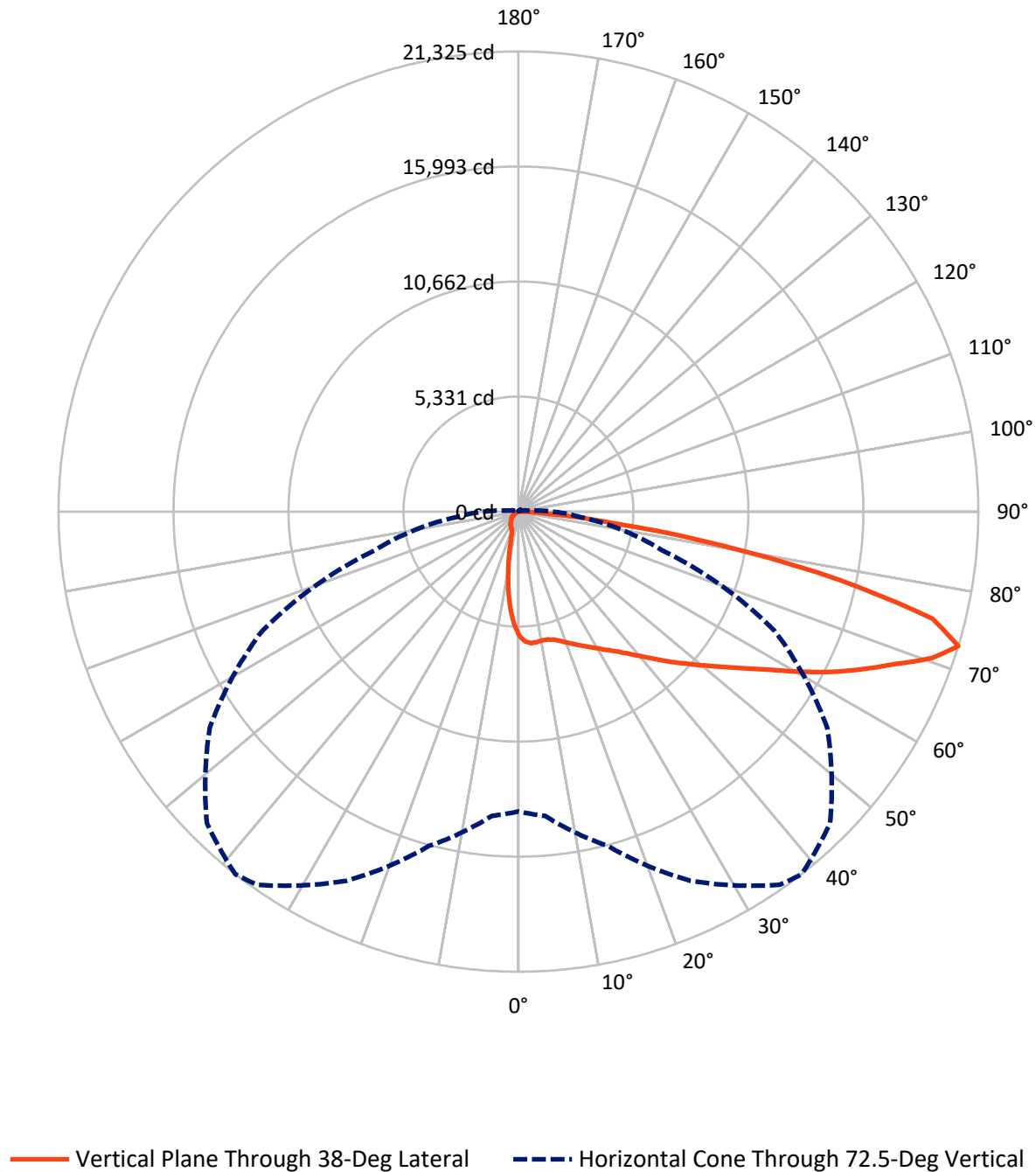
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2634.6	0.0	2634.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	28672.4	0.0	28672.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	31307.0	0.0	31307.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.6	1.6
10°-20°	1199.7	3.8
20°-30°	1908.1	6.1
30°-40°	2868.6	9.2
40°-50°	4376.3	14.0
50°-60°	6185.1	19.8
60°-70°	7758.2	24.8
70°-80°	5801.0	18.5
80°-90°	719.3	2.3
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°	31307.0	100.0
0°-180°	31307.0	100.0

Coefficient of Utilization



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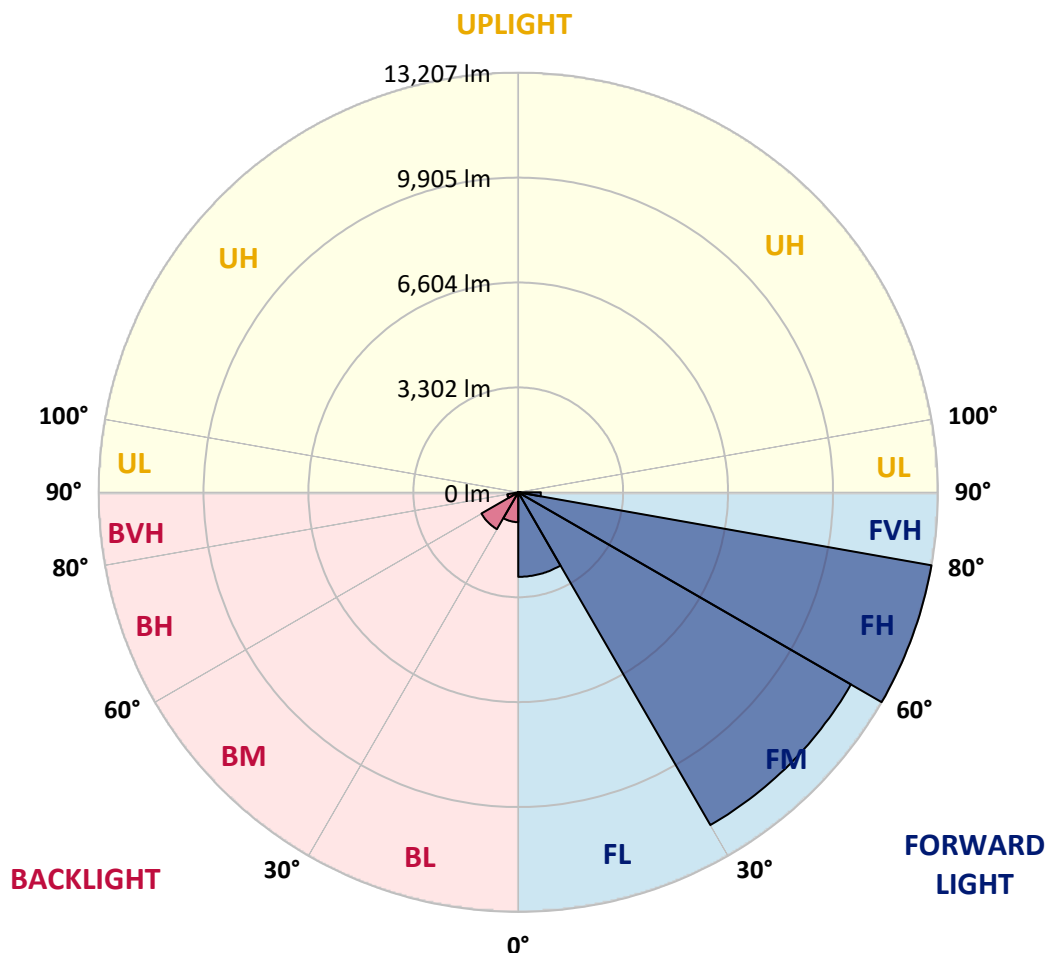
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2660.3	8.5			
FM	(30°-60°)	12092.1	38.6			
FH	(60°-80°)	13207.3	42.2			G5
FVH	(80°-90°)	712.6	2.3			G4/750
BL	(0°-30°)	938.1	3.0	B2/1000		
BM	(30°-60°)	1337.9	4.3	B2/2500		
BH	(60°-80°)	351.9	1.1	B1/500		G1/500
BVH	(80°-90°)	6.7	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5757.3	5757.3	5757.3	5757.3	5757.3	5757.3	5757.3	5757.3	5757.3	5757.3	5757.3
2.5°	6110.9	6112.2	6097.9	6074.5	6044.6	6029.0	6003.0	5961.4	5917.2	5837.9	5752.1
5°	6235.7	6235.7	6217.5	6186.3	6138.2	6123.9	6074.5	6008.2	5917.2	5788.5	5644.1
7.5°	6222.7	6225.3	6200.6	6168.1	6120.0	6107.0	6047.2	5973.1	5860.0	5703.9	5519.3
10°	6155.1	6161.6	6142.1	6126.5	6082.3	6068.0	6012.1	5938.0	5824.9	5658.4	5446.5
12.5°	6086.2	6092.7	6099.2	6113.5	6086.2	6081.0	6036.8	5974.4	5866.5	5693.5	5454.3
15°	6042.0	6055.0	6101.8	6157.7	6164.2	6159.0	6130.4	6071.9	5962.7	5783.3	5510.2
17.5°	6042.0	6062.8	6160.3	6266.9	6304.6	6308.5	6283.8	6201.9	6071.9	5879.5	5562.2
20°	6092.7	6121.3	6273.4	6424.3	6486.7	6486.7	6438.6	6324.1	6172.0	5966.6	5597.3
22.5°	6222.7	6260.4	6451.6	6625.8	6692.1	6677.8	6612.8	6446.4	6276.0	6065.4	5641.5
25°	6478.9	6507.5	6706.4	6881.9	6922.2	6889.7	6807.8	6594.6	6408.7	6199.3	5722.1
27.5°	6809.1	6813.0	7018.4	7166.7	7142.0	7119.9	7017.1	6780.5	6599.8	6390.4	5861.3
30°	7171.9	7171.9	7352.6	7465.7	7390.3	7372.1	7269.4	7005.4	6844.2	6650.5	6058.9
32.5°	7522.9	7538.5	7685.4	7757.0	7672.4	7654.2	7554.1	7290.2	7169.3	7047.0	6367.0
35°	7862.3	7874.0	8013.1	8052.1	7971.5	7976.7	7905.2	7681.5	7636.0	7620.4	6831.2
37.5°	8191.2	8193.8	8335.5	8360.2	8319.9	8364.1	8370.6	8173.0	8257.5	8383.6	7485.2
40°	8491.6	8494.2	8634.6	8698.3	8767.2	8824.4	8875.1	8769.8	9049.3	9341.9	8264.0
42.5°	8732.1	8759.4	8937.5	9058.4	9240.5	9349.7	9487.5	9482.3	9992.0	10431.4	9205.4
45°	8944.0	8990.8	9239.2	9451.1	9763.1	9937.4	10153.2	10322.2	11052.9	11644.5	10158.4
47.5°	9223.6	9267.8	9551.2	9898.4	10314.4	10543.3	10900.8	11266.2	12219.2	12835.5	11089.3
50°	9617.5	9598.0	9877.6	10375.5	10909.9	11210.3	11719.9	12267.3	13376.4	13873.1	11636.7
52.5°	10037.5	10029.7	10236.4	10894.3	11612.0	11963.1	12636.6	13302.3	14482.8	14588.2	11887.7
55°	10557.6	10501.7	10675.9	11485.9	12445.4	12822.5	13615.6	14326.8	15364.4	14991.2	12013.8
57.5°	11102.3	11010.0	11176.5	12145.1	13385.5	13831.5	14700.0	15325.4	15950.8	15266.9	12012.5
60°	11665.3	11556.1	11753.7	12969.4	14553.1	15069.2	15875.4	16000.2	16498.1	15406.0	11924.1
62.5°	12136.0	12071.0	12364.8	13851.0	15857.2	16364.2	16763.4	16613.9	16959.7	15513.9	11717.3
65°	12634.0	12637.9	13112.4	14879.4	17243.2	17585.1	17618.9	17409.6	17345.9	15491.8	11017.8
67.5°	13307.5	13369.9	14161.7	16275.8	18591.5	18855.4	18852.8	18271.6	17628.0	14612.9	9466.7
70°	14020.0	14166.9	15370.9	17873.8	20063.3	20331.1	20193.3	18820.3	16598.3	11816.2	6699.9
72.5°	13900.4	14155.2	16043.1	18881.4	21120.3	21324.5	20428.6	17472.0	13118.9	6867.6	2852.6
75°	10724.0	11019.1	14710.4	17882.9	20011.3	19827.9	17552.6	13596.1	7169.3	1916.5	642.3
77.5°	5664.9	5822.3	9717.6	13623.4	15603.6	15220.1	12364.8	7542.4	2185.6	474.6	288.6
80°	2967.0	3003.4	4234.7	7729.6	9630.5	9633.1	7327.9	3312.9	901.0	243.1	193.7
82.5°	1588.8	1620.0	2237.6	3571.6	5046.0	4574.1	2805.8	1822.9	524.0	137.8	185.9
85°	382.3	388.8	1269.0	1631.7	1984.1	1417.2	833.4	1530.3	141.7	80.6	150.8
87.5°	146.9	149.5	470.7	706.0	505.8	327.6	390.1	570.8	18.2	31.2	23.4
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°	5757.3	5757.3	5757.3	5757.3	5757.3	5757.3	5757.3	5757.3	5757.3	5757.3	5757.3
2.5°	5700.0	5666.2	5583.0	5477.7	5384.1	5316.5	5215.1	5148.8	5104.6	5103.3	5086.4
5°	5555.7	5486.8	5307.4	5094.2	4900.4	4726.2	4520.8	4358.2	4237.3	4217.8	4176.2
7.5°	5401.0	5287.9	5012.2	4679.4	4354.3	4024.1	3640.5	3402.6	3198.5	3101.0	3090.6
10°	5306.1	5147.5	4756.1	4275.0	3765.4	3228.4	2726.5	2379.4	2128.4	2056.9	2003.6
12.5°	5286.6	5077.3	4558.5	3895.4	3167.3	2457.4	1902.2	1532.9	1332.7	1269.0	1252.1
15°	5306.1	5044.7	4392.1	3519.6	2561.4	1743.6	1276.8	1062.3	986.8	968.6	967.3
17.5°	5317.8	5005.7	4203.5	3102.3	1973.7	1245.6	977.7	915.3	903.6	902.3	904.9
20°	5316.5	4945.9	3978.6	2636.8	1467.9	979.0	884.1	871.1	868.5	869.8	868.5
22.5°	5307.4	4875.7	3731.6	2157.0	1109.1	875.0	843.8	836.0	834.7	834.7	834.7
25°	5324.3	4819.8	3459.8	1698.1	914.0	826.9	807.4	800.9	799.6	799.6	797.0
27.5°	5385.4	4788.6	3162.1	1306.7	825.6	784.0	768.4	767.1	763.2	761.9	764.5
30°	5484.2	4788.6	2835.7	1016.8	772.3	739.8	728.1	725.5	724.2	722.9	724.2
32.5°	5658.4	4825.0	2479.5	845.1	721.6	690.4	682.6	686.5	682.6	682.6	682.6
35°	5973.1	4934.2	2106.3	737.2	668.3	642.3	634.5	639.7	637.1	637.1	635.8
37.5°	6432.1	5137.1	1730.6	672.2	621.5	594.2	583.8	591.6	589.0	589.0	587.7
40°	6991.1	5432.2	1373.0	622.8	576.0	547.4	538.3	542.2	535.7	535.7	538.3
42.5°	7681.5	5806.7	1061.0	574.7	530.5	503.2	498.0	494.1	482.4	475.9	477.2
45°	8448.7	6196.7	826.9	527.9	487.6	465.5	457.7	447.3	427.8	414.8	416.1
47.5°	9133.9	6497.1	672.2	482.4	448.6	431.7	420.0	400.5	371.9	356.3	357.6
50°	9494.0	6542.6	572.1	436.9	412.2	395.3	378.4	348.5	314.6	297.7	296.4
52.5°	9586.3	6329.3	498.0	395.3	375.8	356.3	334.1	293.8	256.1	237.9	235.3
55°	9620.1	6004.3	431.7	356.3	336.7	314.6	286.0	240.5	205.4	187.2	185.9
57.5°	9508.3	5519.3	379.7	321.1	297.7	270.4	235.3	192.4	158.6	144.3	144.3
60°	9260.0	4862.7	339.4	283.4	257.4	226.2	189.8	149.5	118.3	106.6	106.6
62.5°	8764.6	4012.4	301.6	244.4	219.7	187.2	153.4	113.1	83.2	76.7	78.0
65°	7829.8	3043.8	263.9	209.3	187.2	154.7	119.6	80.6	55.9	55.9	58.5
67.5°	6385.2	2114.1	224.9	178.1	161.2	126.1	91.0	55.9	39.0	44.2	49.4
70°	4226.9	1185.8	192.4	146.9	137.8	100.1	67.6	37.7	31.2	41.6	50.7
72.5°	1595.3	461.6	161.2	118.3	119.6	76.7	48.1	28.6	28.6	45.5	59.8
75°	444.7	226.2	115.7	87.1	93.6	55.9	35.1	24.7	27.3	52.0	70.2
77.5°	261.3	166.4	75.4	50.7	63.7	39.0	23.4	19.5	23.4	44.2	67.6
80°	210.6	88.4	44.2	26.0	35.1	22.1	15.6	11.7	6.5	16.9	35.1
82.5°	210.6	53.3	20.8	18.2	18.2	11.7	7.8	5.2	1.3	0.0	9.1
85°	141.7	22.1	13.0	11.7	9.1	3.9	2.6	1.3	0.0	0.0	0.0
87.5°	23.4	9.1	5.2	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)