

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: P323199

Luminaire Tested: **GAN-SA5B-740-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323199
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-SA5B-740-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 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: 23657 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

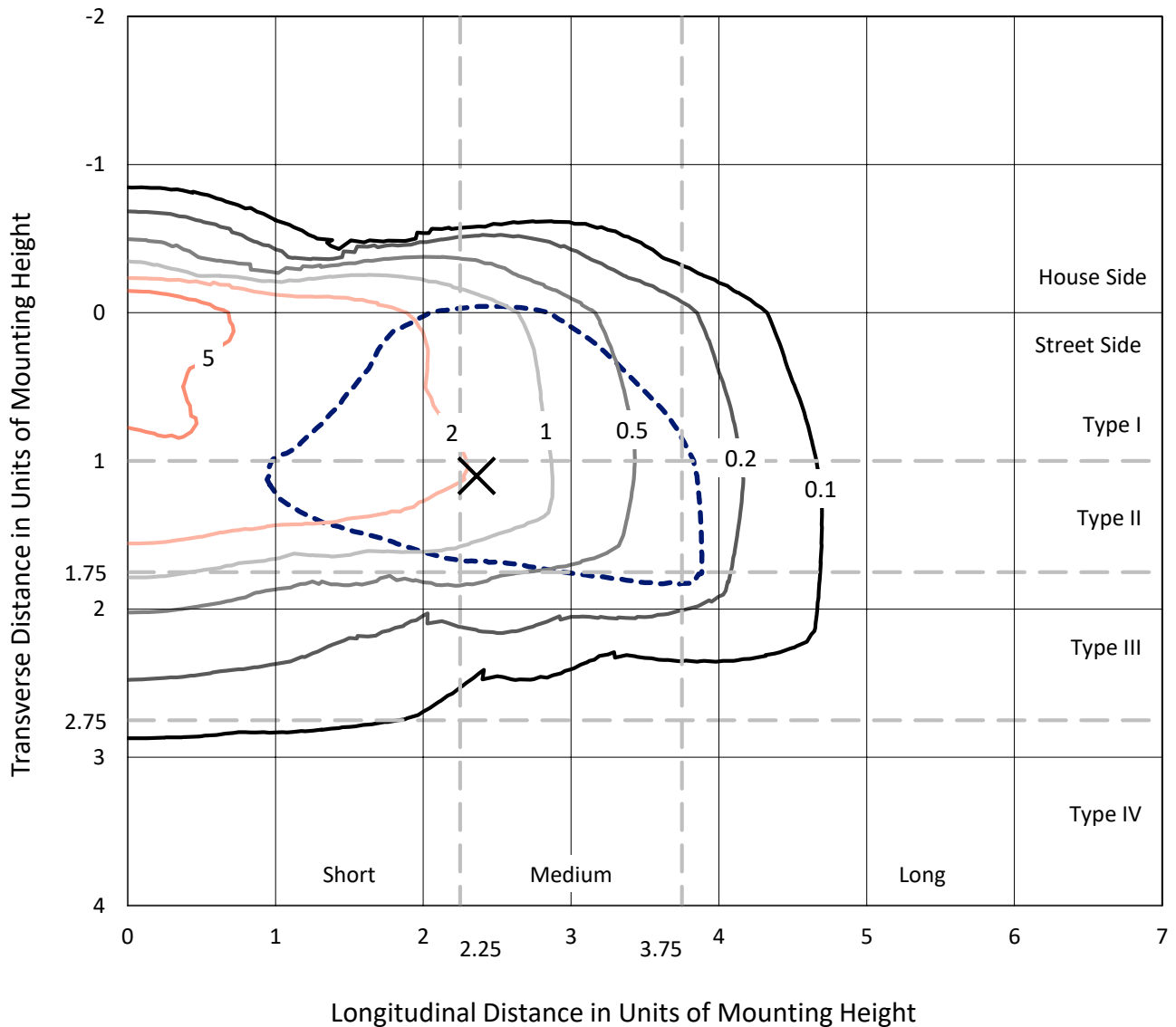
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

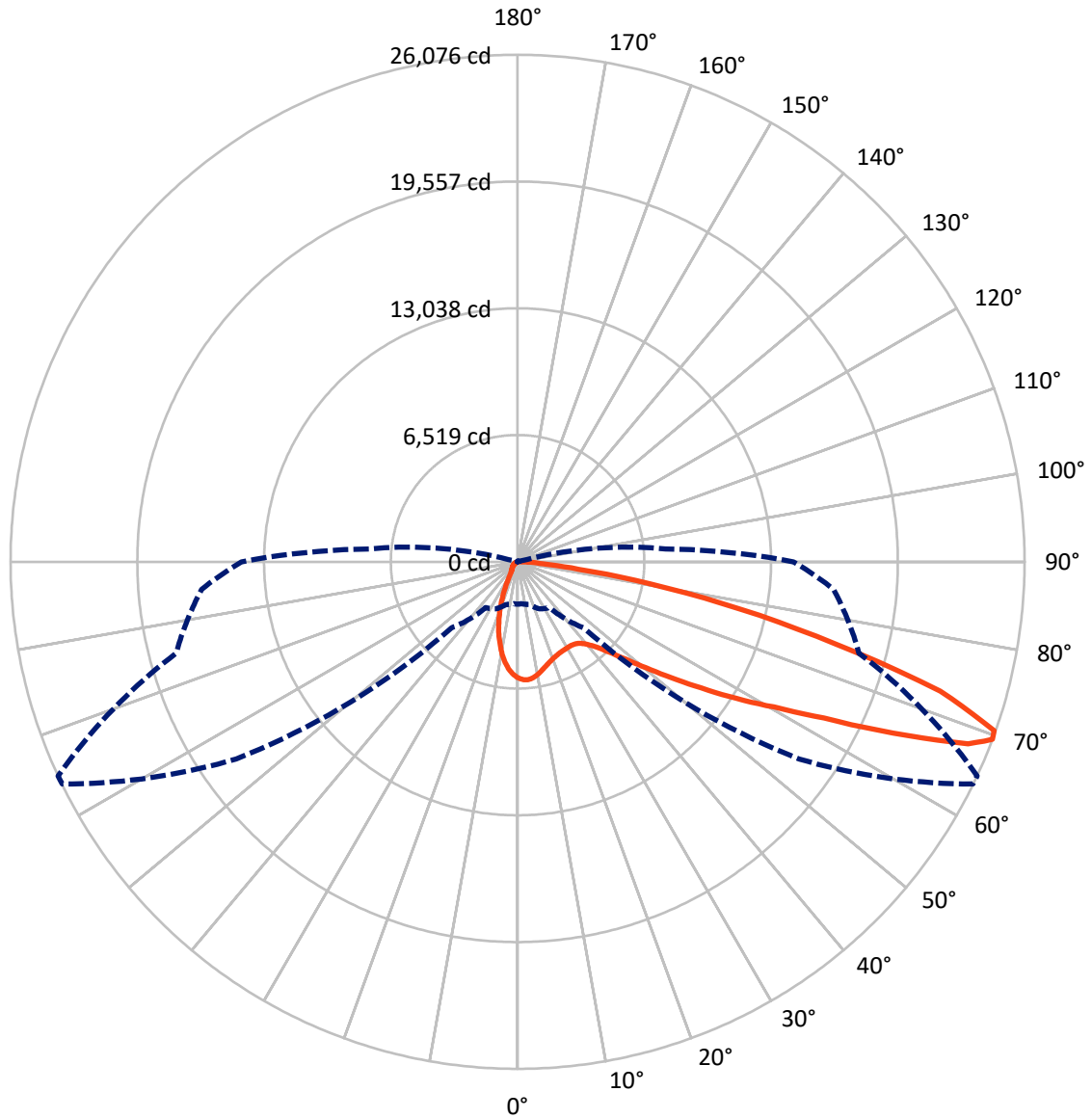
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2788.6	0.0	2788.6
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	20868.4	0.0	20868.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	23657.0	0.0	23657.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.9	2.1
10°-20°	1094.3	4.6
20°-30°	1515.6	6.4
30°-40°	2113.3	8.9
40°-50°	3284.8	13.9
50°-60°	5273.3	22.3
60°-70°	5965.0	25.2
70°-80°	3503.3	14.8
80°-90°	407.5	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°	23657.0	100.0
0°-180°	23657.0	100.0

Coefficient of Utilization

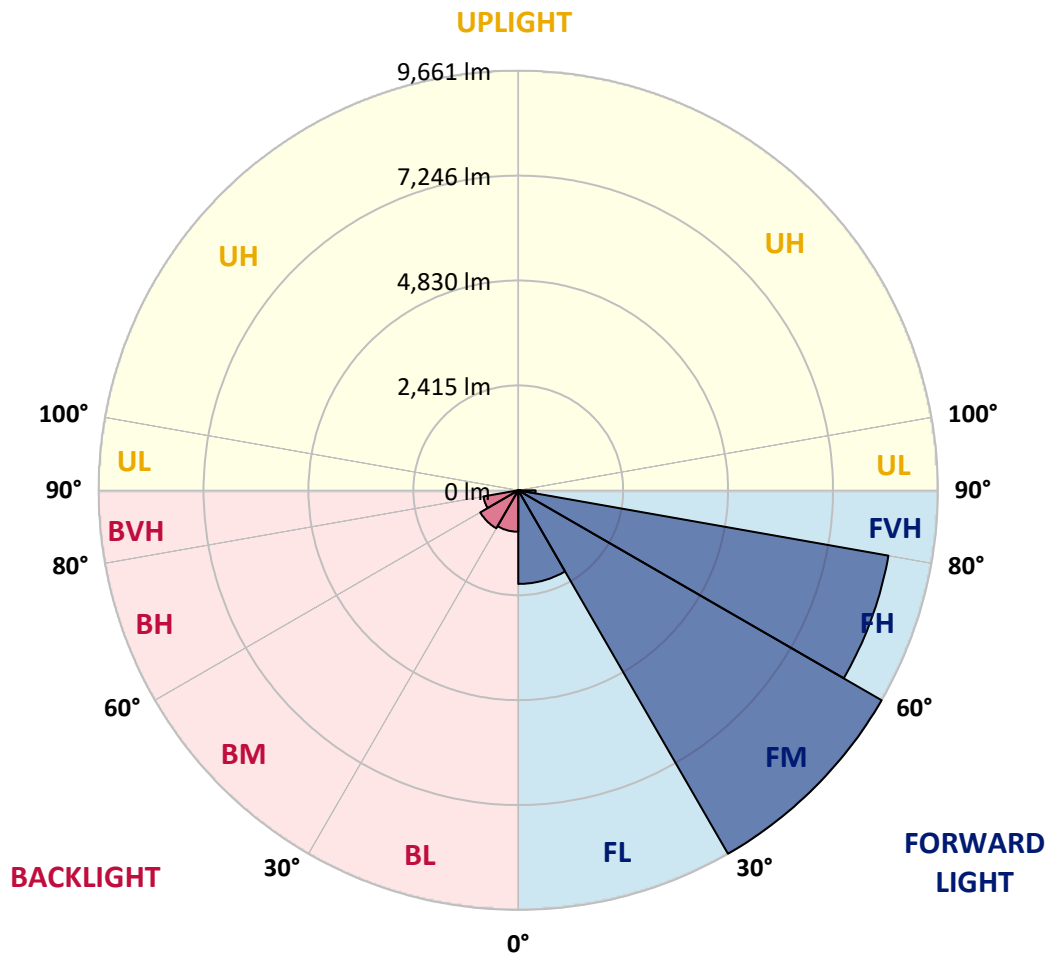


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2155.7	9.1			
FM (30°-60°)	9660.8	40.8			
FH (60°-80°)	8653.5	36.6			G4/12000
FVH (80°-90°)	398.4	1.7			G3/500
BL (0°-30°)	954.1	4.0	B2/1000		
BM (30°-60°)	1010.5	4.3	B2/2500		
BH (60°-80°)	814.8	3.4	B2/1000		G2/1000
BVH (80°-90°)	9.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	5978.2	5978.2	5978.2	5978.2	5978.2	5978.2	5978.2	5978.2	5978.2	5978.2	5978.2
2.5°	6031.2	6016.2	6028.2	6054.2	6067.3	6067.3	6077.3	6065.3	6069.3	6040.2	5998.2
5°	5653.8	5630.8	5663.8	5736.9	5827.0	5904.1	6018.2	6078.3	6084.3	6085.3	6036.2
7.5°	5247.4	5226.4	5275.4	5361.5	5477.6	5620.8	5820.0	5994.2	6004.2	6098.3	6062.3
10°	4917.1	4902.1	4959.1	5051.2	5187.3	5347.5	5591.8	5834.0	5863.0	6071.3	6058.2
12.5°	4654.8	4642.8	4696.8	4803.0	4942.1	5119.3	5374.5	5655.8	5694.9	6010.2	6038.2
15°	4463.6	4461.6	4506.6	4608.8	4762.9	4928.1	5189.4	5490.7	5535.7	5944.1	6035.2
17.5°	4363.5	4366.5	4399.5	4486.6	4618.8	4782.9	5033.2	5351.5	5400.6	5885.1	6050.2
20°	4353.5	4356.5	4374.5	4423.6	4530.7	4675.8	4906.1	5234.4	5285.5	5841.0	6074.3
22.5°	4441.6	4439.6	4444.6	4439.6	4499.6	4609.8	4822.0	5144.3	5203.4	5812.0	6093.3
25°	4610.8	4607.8	4605.7	4568.7	4528.7	4587.7	4786.9	5093.3	5149.3	5791.0	6104.3
27.5°	4846.0	4844.0	4841.0	4779.9	4659.8	4622.8	4790.9	5074.2	5121.3	5774.0	6102.3
30°	5155.3	5169.3	5165.3	5080.2	4893.0	4729.9	4833.0	5064.2	5105.3	5740.9	6081.3
32.5°	5518.7	5546.7	5568.7	5477.6	5243.4	4942.1	4930.1	5075.2	5105.3	5715.9	6043.2
35°	5896.1	5932.1	6013.2	5981.2	5672.9	5261.4	5097.3	5141.3	5166.3	5729.9	6025.2
37.5°	6267.5	6310.5	6486.7	6579.8	6235.4	5683.9	5357.5	5304.5	5317.5	5815.0	6045.2
40°	6698.9	6764.0	7031.3	7181.4	6907.1	6249.4	5746.9	5584.8	5589.8	6002.2	6138.3
42.5°	7265.5	7332.6	7621.9	7857.1	7663.9	6964.2	6275.5	6013.2	6008.2	6352.6	6357.6
45°	7956.2	8026.3	8325.6	8586.9	8499.8	7811.1	6952.2	6638.8	6632.8	6905.1	6773.0
47.5°	8739.0	8808.1	9075.4	9344.6	9438.7	8800.1	7814.1	7492.7	7478.7	7672.9	7414.6
50°	9410.7	9455.8	9702.0	10064.4	10488.8	10015.3	8886.2	8576.8	8561.8	8693.0	8356.6
52.5°	9655.0	9681.0	9931.2	10438.8	11497.9	11661.0	10294.6	9896.2	9885.2	9942.3	9610.9
55°	9160.4	9207.5	9514.8	10267.6	12044.4	13520.9	12072.5	11529.9	11446.8	11323.7	10922.3
57.5°	7813.1	7888.1	8218.5	9219.5	11789.2	14996.5	14685.1	13377.8	13255.7	12502.9	11988.4
60°	5854.0	5946.1	6220.4	7300.5	10426.8	15522.0	17540.1	15436.9	15161.6	13441.9	12968.4
62.5°	4017.1	4063.2	4249.4	4953.1	7678.9	14661.1	19928.6	18194.8	17692.2	14462.9	14028.5
65°	3068.2	3084.2	3160.3	3402.5	4572.7	11909.3	20878.5	21833.5	21225.9	15684.2	15128.6
67.5°	2472.5	2459.5	2564.6	2911.0	3062.2	7265.5	19770.4	25276.1	24991.8	17316.9	16235.7
69°	2180.2	2162.2	2269.3	2671.8	2876.0	4803.0	17674.2	26057.9	26075.9	18178.7	16311.8
70°	1962.0	1974.0	2080.1	2529.6	2812.9	3769.9	15672.2	25858.7	26000.8	18501.1	15855.4
72.5°	1310.4	1342.4	1555.6	2100.2	2704.8	2852.9	9462.8	22189.9	22736.4	17775.3	13603.0
75°	738.8	762.8	1016.0	1583.6	2548.6	2716.8	4998.2	16347.9	16876.4	14864.3	10489.8
77.5°	362.4	375.4	574.6	1022.1	2131.2	2588.7	2834.9	11104.5	11708.1	9702.0	5933.1
80°	153.2	160.2	287.3	630.7	1523.6	2470.5	2105.2	6834.0	6909.1	3800.9	1580.6
82.5°	59.1	61.1	121.1	393.4	968.0	1926.0	1760.8	3240.3	3162.3	715.7	360.4
85°	7.0	8.0	44.0	236.2	538.6	991.0	1430.5	1396.4	1292.3	142.1	185.2
87.5°	0.0	0.0	3.0	72.1	160.2	464.5	743.8	579.6	522.5	46.0	96.1
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°	5978.2	5978.2	5978.2	5978.2	5978.2	5978.2	5978.2	5978.2	5978.2	5978.2	5978.2
2.5°	5963.1	5953.1	5899.1	5821.0	5746.9	5654.8	5566.7	5513.7	5471.6	5443.6	5476.6
5°	5979.2	5935.1	5771.0	5560.7	5354.5	5122.3	4906.1	4722.9	4650.8	4570.7	4606.8
7.5°	5974.2	5891.1	5595.8	5221.4	4843.0	4451.6	4081.2	3795.9	3647.8	3502.6	3539.7
10°	5949.1	5809.0	5361.5	4807.0	4240.4	3677.8	3152.3	2752.8	2529.6	2327.4	2356.4
12.5°	5894.1	5698.9	5085.2	4332.5	3574.7	2832.9	2217.3	1705.8	1431.5	1310.4	1325.4
15°	5861.0	5591.8	4792.9	3852.0	2864.0	1973.0	1355.4	1008.0	882.9	842.9	847.9
17.5°	5845.0	5488.7	4490.6	3302.4	2137.2	1256.3	875.9	772.8	745.8	738.8	740.8
20°	5829.0	5384.6	4179.3	2758.8	1472.5	844.9	719.7	689.7	679.7	670.7	672.7
22.5°	5802.0	5284.4	3845.0	2208.3	993.0	685.7	648.7	619.6	598.6	587.6	589.6
25°	5768.9	5179.3	3503.6	1644.7	724.7	611.6	576.6	535.6	510.5	490.5	491.5
27.5°	5715.9	5050.2	3151.2	1197.2	608.6	547.6	500.5	455.5	413.4	390.4	390.4
30°	5641.8	4904.1	2759.8	856.9	545.6	484.5	427.4	371.4	326.3	305.3	303.3
32.5°	5559.7	4751.9	2364.4	649.7	495.5	425.4	360.4	301.3	261.3	244.3	243.3
35°	5489.7	4587.7	1970.0	544.6	445.5	368.4	297.3	247.3	215.2	201.2	200.2
37.5°	5444.6	4423.6	1585.6	486.5	400.4	315.3	249.3	204.2	181.2	170.2	169.2
40°	5437.6	4301.4	1234.3	442.5	358.4	268.3	208.2	173.2	152.2	140.1	139.1
42.5°	5528.7	4231.4	947.0	405.4	315.3	227.2	177.2	148.2	126.1	114.1	113.1
45°	5767.9	4253.4	728.8	372.4	272.3	192.2	150.2	123.1	103.1	94.1	92.1
47.5°	6204.4	4405.5	579.6	339.3	231.2	163.2	128.1	102.1	85.1	76.1	75.1
50°	6981.2	4762.9	484.5	303.3	193.2	139.1	106.1	83.1	69.1	61.1	60.1
52.5°	8012.3	5399.6	432.4	268.3	160.2	118.1	87.1	66.1	54.1	48.0	47.0
55°	9149.4	6170.4	398.4	230.2	131.1	98.1	69.1	52.1	42.0	37.0	35.0
57.5°	10259.6	6838.1	366.4	193.2	109.1	80.1	55.1	41.0	33.0	28.0	27.0
60°	11279.6	7451.7	329.3	155.2	89.1	63.1	43.0	32.0	26.0	21.0	21.0
62.5°	12371.8	7926.2	278.3	121.1	73.1	48.0	35.0	29.0	21.0	18.0	17.0
65°	13529.0	8278.5	218.2	94.1	57.1	36.0	29.0	30.0	17.0	13.0	12.0
67.5°	14383.8	8208.5	161.2	74.1	44.0	28.0	28.0	32.0	15.0	10.0	9.0
69°	14195.6	7638.9	135.1	64.1	38.0	24.0	26.0	32.0	14.0	9.0	8.0
70°	13650.1	7008.2	119.1	57.1	34.0	22.0	25.0	31.0	13.0	9.0	8.0
72.5°	11367.7	5278.4	93.1	43.0	27.0	18.0	21.0	27.0	13.0	9.0	7.0
75°	8550.8	3378.5	71.1	31.0	20.0	14.0	16.0	20.0	13.0	8.0	7.0
77.5°	4652.8	1218.3	51.1	21.0	14.0	11.0	11.0	15.0	12.0	6.0	4.0
80°	1196.2	306.3	32.0	14.0	11.0	8.0	7.0	10.0	7.0	1.0	0.0
82.5°	295.3	69.1	17.0	10.0	8.0	3.0	3.0	5.0	3.0	0.0	0.0
85°	162.2	34.0	11.0	7.0	4.0	0.0	0.0	1.0	0.0	0.0	0.0
87.5°	83.1	10.0	3.0	2.0	1.0	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)