

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: P478962

Luminaire Tested: **IFLD-L-SA7B-740-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478962
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-740-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

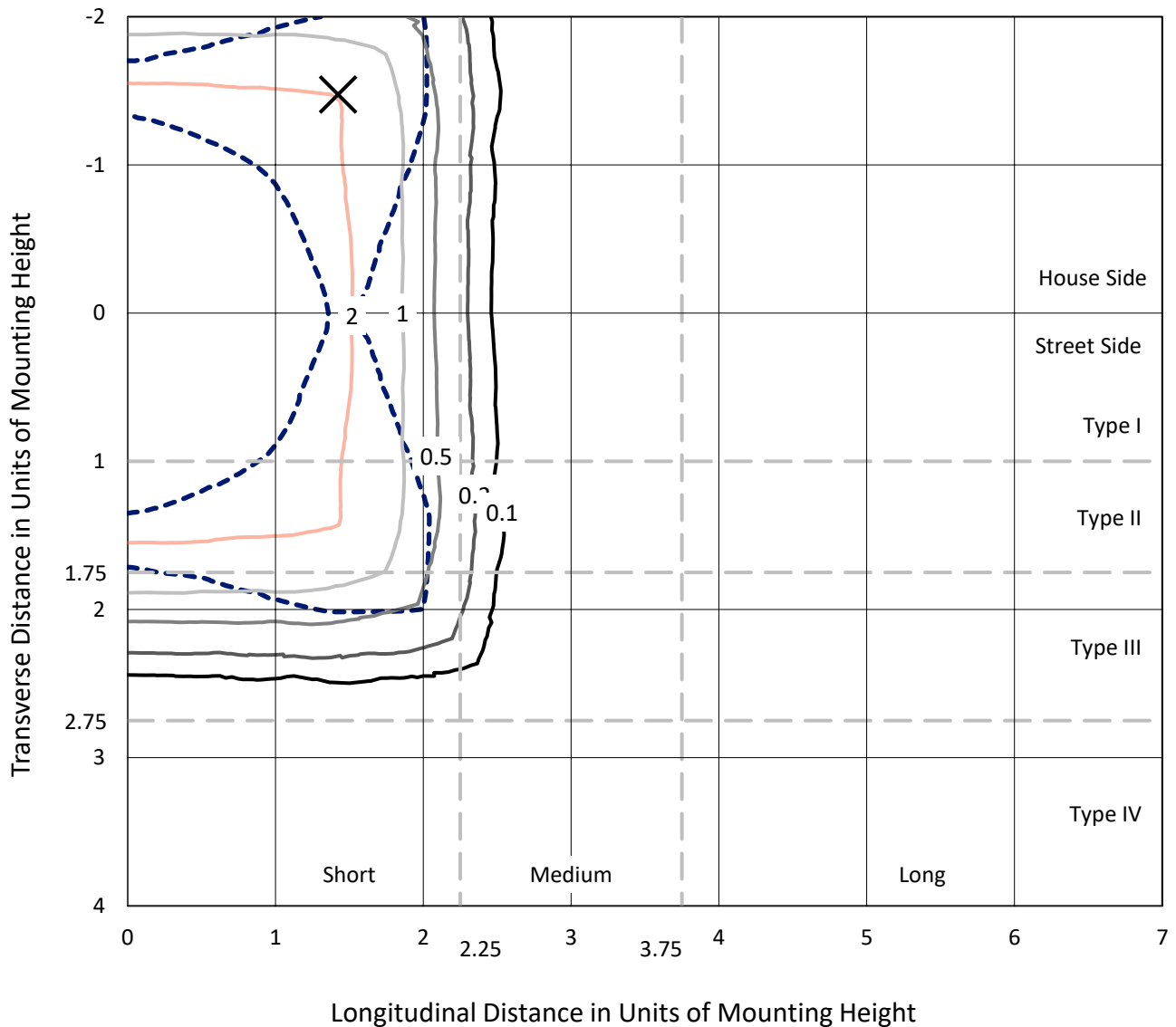
Lumens per Lamp: N/A
Luminaire Lumens: 35518.5 lumens
Efficiency: N/A
Efficacy: 126.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 281
Input Voltage (V): 120
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

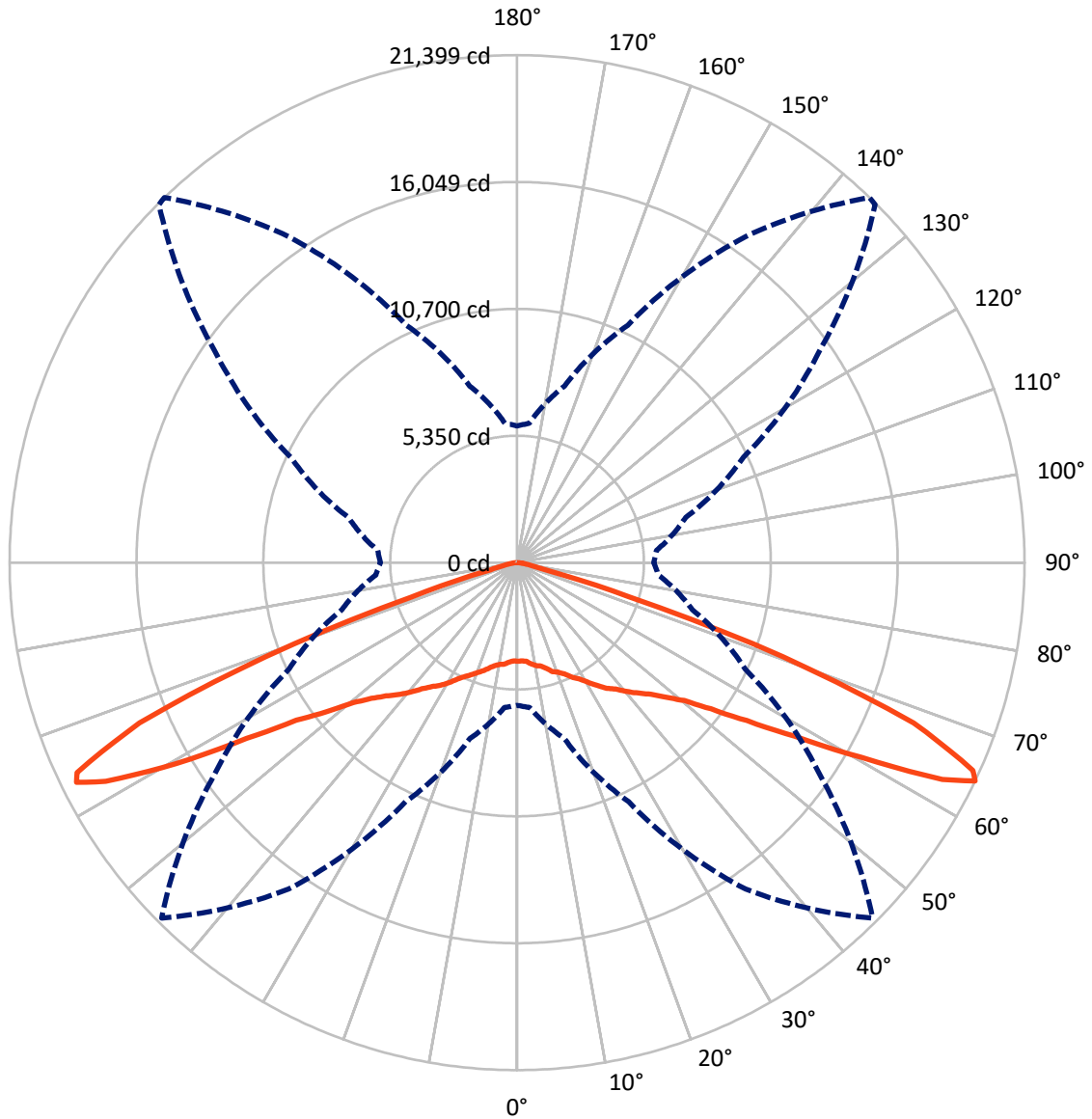
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17776.2	0.0	17776.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17742.4	0.0	17742.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	35518.5	0.0	35518.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	408.6	1.2
10°-20°	1316.9	3.7
20°-30°	2475.0	7.0
30°-40°	4081.8	11.5
40°-50°	6383.6	18.0
50°-60°	10314.4	29.0
60°-70°	9287.4	26.1
70°-80°	1100.1	3.1
80°-90°	150.6	0.4
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°	35518.5	100.0
0°-180°	35518.5	100.0

Coefficient of Utilization



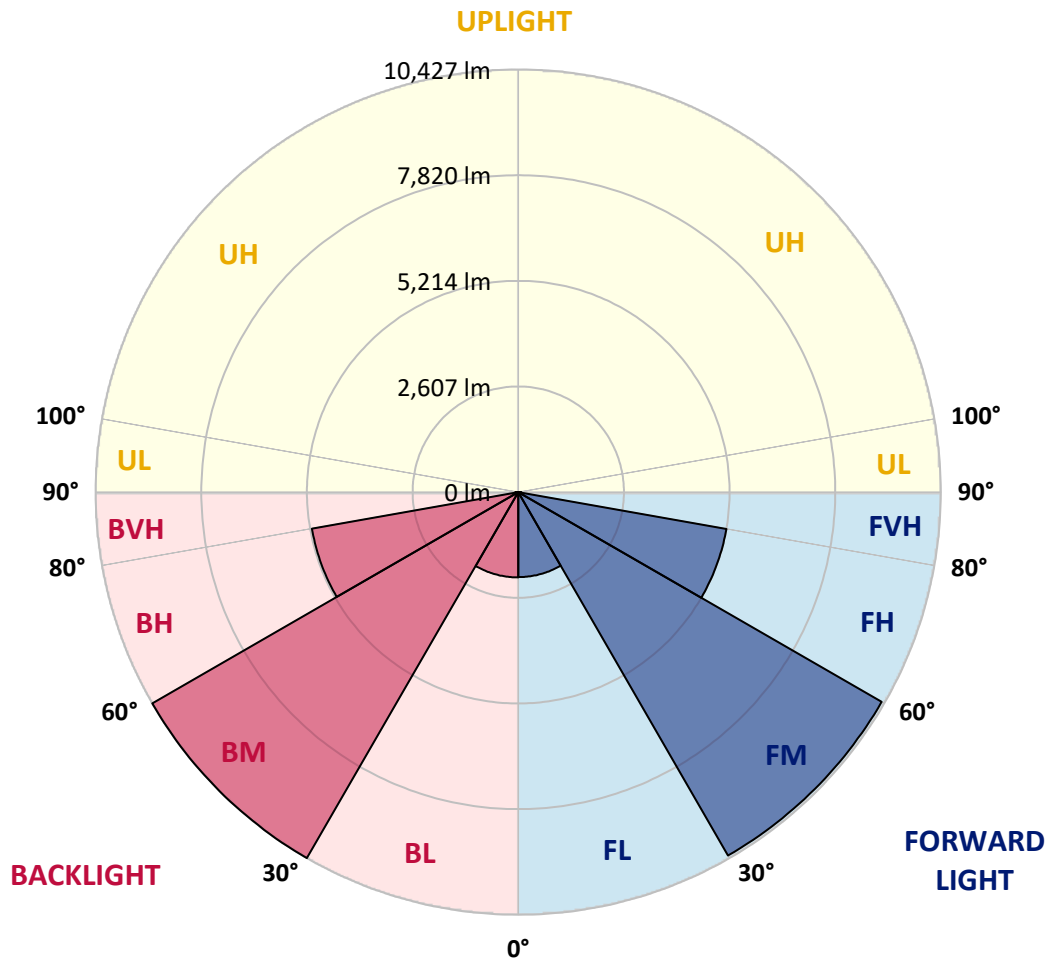
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2096.2	5.9			
FM (30°-60°)	10352.5	29.1			
FH (60°-80°)	5216.3	14.7			G3/7500
FVH (80°-90°)	77.3	0.2			G1/100
BL (0°-30°)	2104.3	5.9	B3/2500		
BM (30°-60°)	10427.3	29.4	B5		
BH (60°-80°)	5171.3	14.6	B5		G3/7500
BVH (80°-90°)	73.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4158.5	4158.5	4158.5	4158.5	4158.5	4158.5	4158.5	4158.5	4158.5	4158.5	4158.5
2.5°	4109.6	4117.8	4191.1	4162.6	4187.0	4142.2	4174.8	4244.0	4162.6	4223.7	4244.0
5°	4154.4	4166.6	4166.6	4195.1	4211.4	4203.3	4223.7	4195.1	4272.5	4240.0	4288.8
7.5°	4317.3	4297.0	4264.4	4288.8	4292.9	4313.3	4333.6	4370.3	4358.1	4329.6	4378.4
10°	4345.8	4329.6	4378.4	4382.5	4362.1	4345.8	4366.2	4366.2	4402.9	4411.0	4411.0
12.5°	4394.7	4411.0	4406.9	4439.5	4443.6	4431.4	4464.0	4525.1	4508.8	4521.0	4492.5
15°	4582.1	4561.7	4557.6	4590.2	4643.2	4565.8	4622.8	4618.7	4602.4	4626.9	4561.7
17.5°	4745.0	4679.8	4708.3	4761.3	4740.9	4757.2	4830.5	4765.4	4781.7	4753.1	4732.8
20°	4887.6	4834.6	4838.7	4859.0	4859.0	4907.9	4936.4	4912.0	4895.7	4891.6	4899.8
22.5°	5046.4	4985.3	4989.4	5074.9	5103.4	5087.1	5066.8	5107.5	5115.6	5083.1	5119.7
25°	5164.5	5229.7	5250.0	5290.8	5229.7	5274.5	5258.2	5335.6	5384.5	5319.3	5364.1
27.5°	5474.1	5445.5	5498.5	5494.4	5543.3	5498.5	5527.0	5551.4	5571.8	5575.9	5555.5
30°	5751.0	5763.2	5710.3	5852.8	5738.8	5812.1	5861.0	5873.2	5897.6	5897.6	5836.5
32.5°	6044.3	6019.8	6105.4	6072.8	6052.4	6109.4	6056.5	6223.5	6125.7	6182.8	6113.5
35°	6374.2	6374.2	6406.8	6496.4	6374.2	6337.5	6435.3	6504.5	6504.5	6402.7	6427.1
37.5°	6744.8	6712.2	6753.0	6867.0	6773.3	6651.1	6830.4	6858.9	6838.5	6810.0	6761.1
40°	7005.5	6997.3	7078.8	7229.5	7095.1	7070.7	7103.2	7180.6	7205.1	7233.6	7168.4
42.5°	7445.4	7482.0	7718.3	7681.6	7571.6	7486.1	7478.0	7767.1	7697.9	7624.6	7587.9
45°	8097.0	8064.5	8186.6	8190.7	8048.2	7860.8	7901.5	8166.3	8284.4	8121.5	8182.6
47.5°	8614.3	8630.6	8716.1	8891.3	8561.4	8365.9	8516.6	8944.2	8907.6	8846.5	8903.5
50°	9306.7	9380.0	9648.8	9587.7	9294.5	9054.2	9384.1	9787.3	9832.1	9608.1	9567.4
52.5°	10263.9	10377.9	10524.5	10573.4	10292.4	10206.8	10227.2	10728.2	10618.2	10402.3	10263.9
55°	11102.9	11155.8	11424.6	11827.9	11807.5	11396.1	11632.4	11819.7	11371.7	10927.7	10964.4
57.5°	11461.3	11485.7	12235.2	13041.6	13522.2	13615.9	13347.1	12715.8	11648.7	10793.3	10740.4
60°	10569.3	10801.5	11705.7	13526.3	15721.6	16805.0	15017.0	12817.6	11001.1	9962.5	9885.1
62.5°	8447.3	8459.5	9803.6	12565.1	17090.1	19929.0	15656.5	11860.5	9274.1	8097.0	7787.5
64°	6015.8	6129.8	7673.5	11123.3	16805.0	21199.8	15579.1	10610.1	7644.9	5975.0	5759.2
65°	4317.3	4476.2	5966.9	9657.0	16137.1	21049.1	15346.9	9534.8	6182.8	4561.7	4341.8
67.5°	1588.5	1653.6	2342.0	4830.5	11587.6	17937.3	12161.9	5241.9	2716.7	1934.7	1739.2
70°	737.2	741.3	867.5	1596.6	5066.8	11994.9	5804.0	1967.2	1022.3	810.5	753.5
72.5°	541.7	553.9	606.9	737.2	1490.7	5079.0	1906.1	806.4	598.7	529.5	517.3
75°	439.9	448.0	464.3	533.6	688.3	1360.4	773.9	558.0	476.5	427.7	411.4
77.5°	338.1	338.1	374.7	407.3	456.2	635.4	513.2	444.0	386.9	338.1	325.8
80°	244.4	248.5	293.3	317.7	309.5	419.5	370.6	366.6	317.7	264.7	244.4
82.5°	142.6	154.8	211.8	228.1	219.9	248.5	268.8	285.1	248.5	183.3	167.0
85°	81.5	85.5	122.2	126.3	126.3	118.1	154.8	171.1	167.0	114.0	101.8
87.5°	24.4	24.4	32.6	32.6	36.7	40.7	61.1	73.3	81.5	57.0	52.9
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):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	4158.5	4158.5	4158.5	4158.5	4158.5	4158.5	4158.5	4158.5	4158.5	4158.5	4158.5
2.5°	4223.7	4162.6	4166.6	4182.9	4130.0	4150.3	4211.4	4166.6	4154.4	4130.0	4117.8
5°	4203.3	4268.5	4244.0	4252.2	4240.0	4182.9	4174.8	4211.4	4231.8	4195.1	4268.5
7.5°	4345.8	4317.3	4284.8	4297.0	4268.5	4317.3	4349.9	4276.6	4313.3	4292.9	4252.2
10°	4427.3	4374.4	4398.8	4390.6	4370.3	4419.2	4386.6	4378.4	4345.8	4301.0	4366.2
12.5°	4455.8	4516.9	4557.6	4488.4	4500.6	4476.2	4455.8	4455.8	4419.2	4406.9	4419.2
15°	4582.1	4635.0	4618.7	4671.7	4602.4	4626.9	4651.3	4590.2	4622.8	4533.2	4602.4
17.5°	4814.2	4769.4	4826.5	4757.2	4781.7	4830.5	4753.1	4753.1	4777.6	4728.7	4667.6
20°	4960.9	4940.5	4920.1	4924.2	4883.5	4928.3	4903.8	4891.6	4855.0	4871.3	4903.8
22.5°	5099.3	5070.8	5079.0	5091.2	5119.7	5099.3	5087.1	5099.3	5009.7	5091.2	4977.2
25°	5270.4	5347.8	5323.4	5376.3	5294.8	5347.8	5343.7	5266.3	5315.2	5282.6	5258.2
27.5°	5555.5	5514.8	5551.4	5486.3	5543.3	5547.4	5498.5	5628.8	5571.8	5563.7	5547.4
30°	5922.1	5893.6	5869.1	5832.5	5877.3	5840.6	5881.4	5893.6	5840.6	5799.9	5722.5
32.5°	6129.8	6207.2	6235.7	6146.1	6150.2	6170.5	6133.9	6097.2	6129.8	6142.0	6129.8
35°	6423.1	6496.4	6512.7	6443.4	6406.8	6508.6	6435.3	6557.5	6451.6	6455.6	6345.7
37.5°	6765.2	6785.5	6924.0	6846.6	6814.1	6765.2	6899.6	6883.3	6907.7	6712.2	6810.0
40°	7152.1	7225.4	7302.8	7107.3	7103.2	7148.0	7139.9	7233.6	7188.8	7160.3	7091.0
42.5°	7575.7	7730.5	7742.7	7612.4	7530.9	7522.8	7563.5	7771.2	7775.3	7587.9	7506.5
45°	8137.8	8308.8	8264.0	8011.5	7921.9	7909.7	8109.3	8198.9	8276.3	8202.9	8133.7
47.5°	8838.3	8952.4	8919.8	8687.6	8398.4	8479.9	8675.4	8956.4	8875.0	8777.2	8695.8
50°	9587.7	9722.2	9652.9	9420.8	9143.8	9143.8	9384.1	9742.5	9718.1	9526.7	9453.3
52.5°	10418.6	10614.1	10773.0	10443.1	10210.9	10247.6	10626.3	10756.7	10695.6	10561.2	10500.1
55°	11037.7	11412.4	11738.3	11754.6	11766.8	11762.7	11860.5	11990.8	11555.0	11339.1	11119.2
57.5°	10887.0	11595.7	12711.7	13469.3	13693.3	13811.4	13778.8	13176.0	12145.6	11436.9	11510.2
60°	9811.8	10968.5	12768.7	15200.3	16829.5	16666.5	16071.9	13689.2	11819.7	10622.3	10471.6
62.5°	7828.2	9221.2	11811.6	15689.0	20177.4	20128.6	17016.8	12504.0	9848.4	8333.3	8239.6
64°	5897.6	7363.9	10536.7	15562.8	21350.4	21399.3	16776.5	11045.9	7706.0	5897.6	5755.1
65°	4512.8	5873.2	9286.3	15302.1	21097.9	21126.4	16108.6	9538.9	5856.9	4187.0	4032.2
67.5°	1796.2	2500.8	5038.3	11603.9	18116.5	18039.1	11493.9	4614.7	2240.1	1458.1	1429.6
70°	765.7	953.1	1767.7	5498.5	12129.3	11905.3	4948.6	1498.8	830.9	696.5	692.4
72.5°	525.4	582.4	757.6	1698.4	5042.3	4924.2	1409.2	696.5	566.1	521.3	521.3
75°	423.6	464.3	549.8	712.8	1335.9	1287.1	663.9	513.2	452.1	419.5	415.4
77.5°	329.9	370.6	431.7	492.8	610.9	606.9	444.0	386.9	350.3	325.8	317.7
80°	260.7	301.4	342.1	350.3	399.1	391.0	301.4	305.5	285.1	236.2	232.2
82.5°	179.2	244.4	272.9	248.5	236.2	236.2	215.9	215.9	199.6	146.6	134.4
85°	110.0	162.9	171.1	146.6	110.0	110.0	118.1	114.0	105.9	77.4	73.3
87.5°	57.0	77.4	69.2	57.0	36.7	36.7	32.6	24.4	24.4	20.4	20.4
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)