

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: P479002

Luminaire Tested: **IFLD-L-SA7C-750-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479002
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-750-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

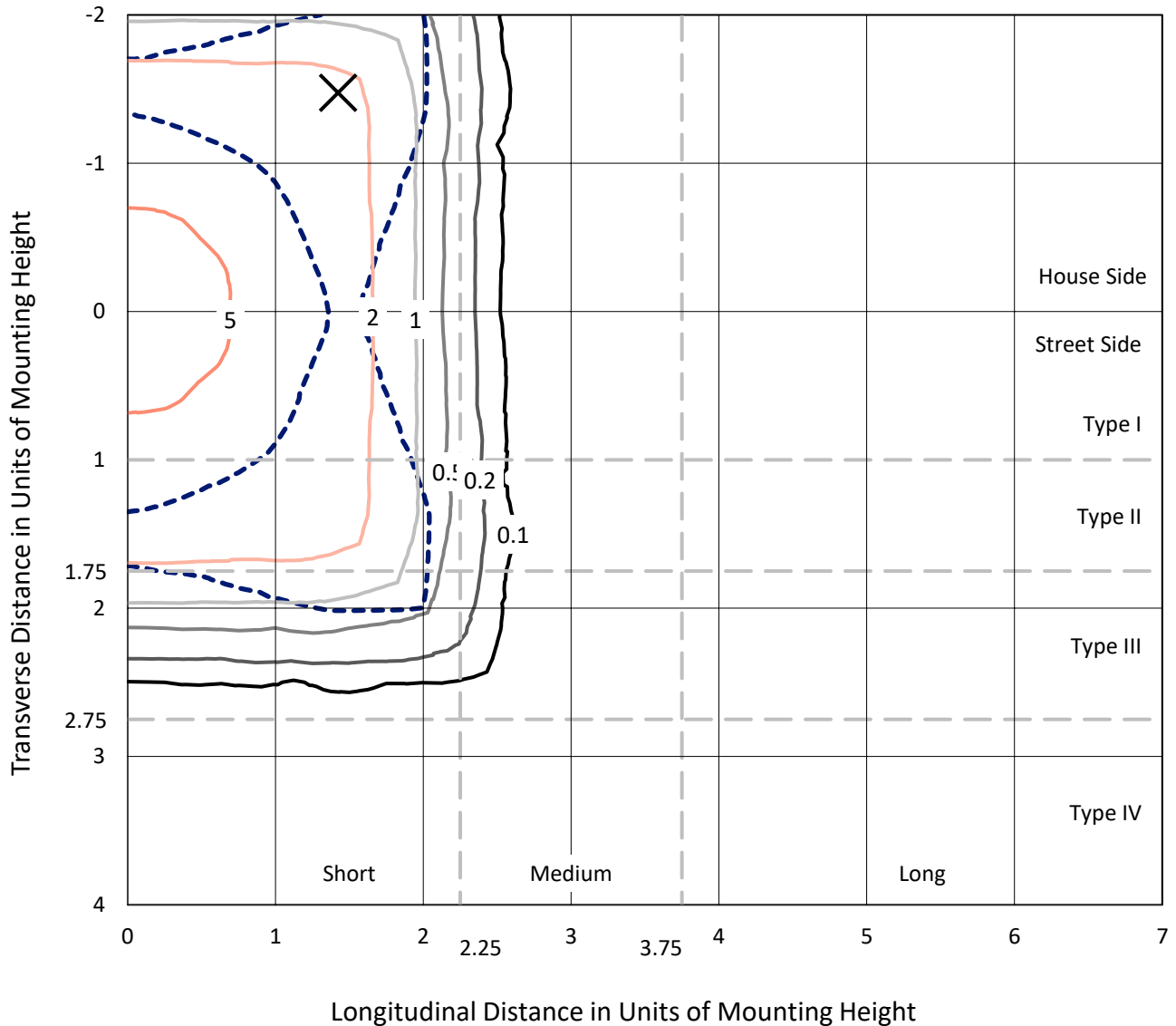
Lumens per Lamp: N/A
Luminaire Lumens: 45226.9 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 369
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

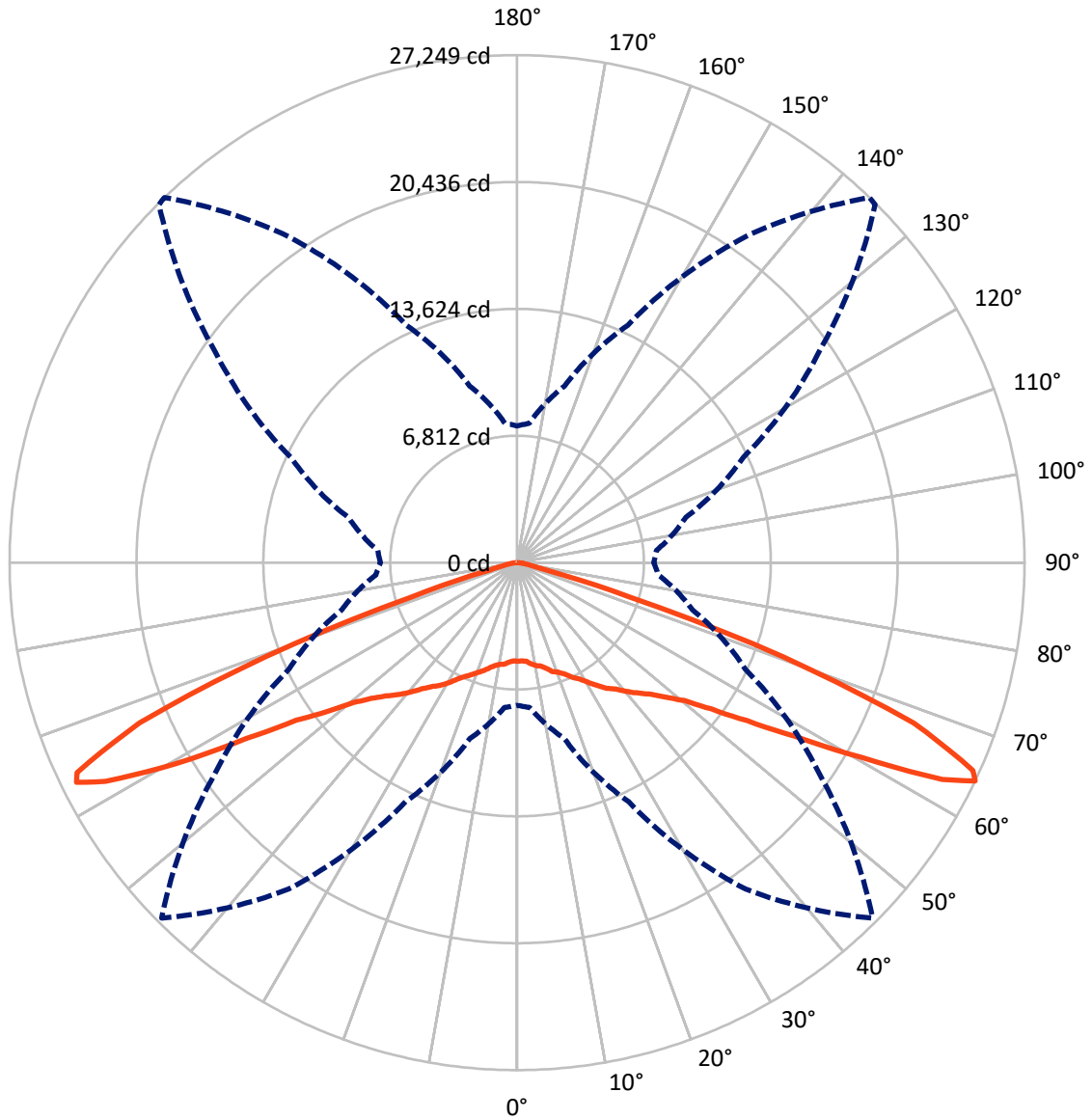
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 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	22635.0	0.0	22635.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22591.9	0.0	22591.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	45226.9	0.0	45226.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.3	1.2
10°-20°	1676.9	3.7
20°-30°	3151.6	7.0
30°-40°	5197.5	11.5
40°-50°	8128.5	18.0
50°-60°	13133.7	29.0
60°-70°	11826.0	26.1
70°-80°	1400.8	3.1
80°-90°	191.7	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°	45226.9	100.0
0°-180°	45226.9	100.0

Coefficient of Utilization



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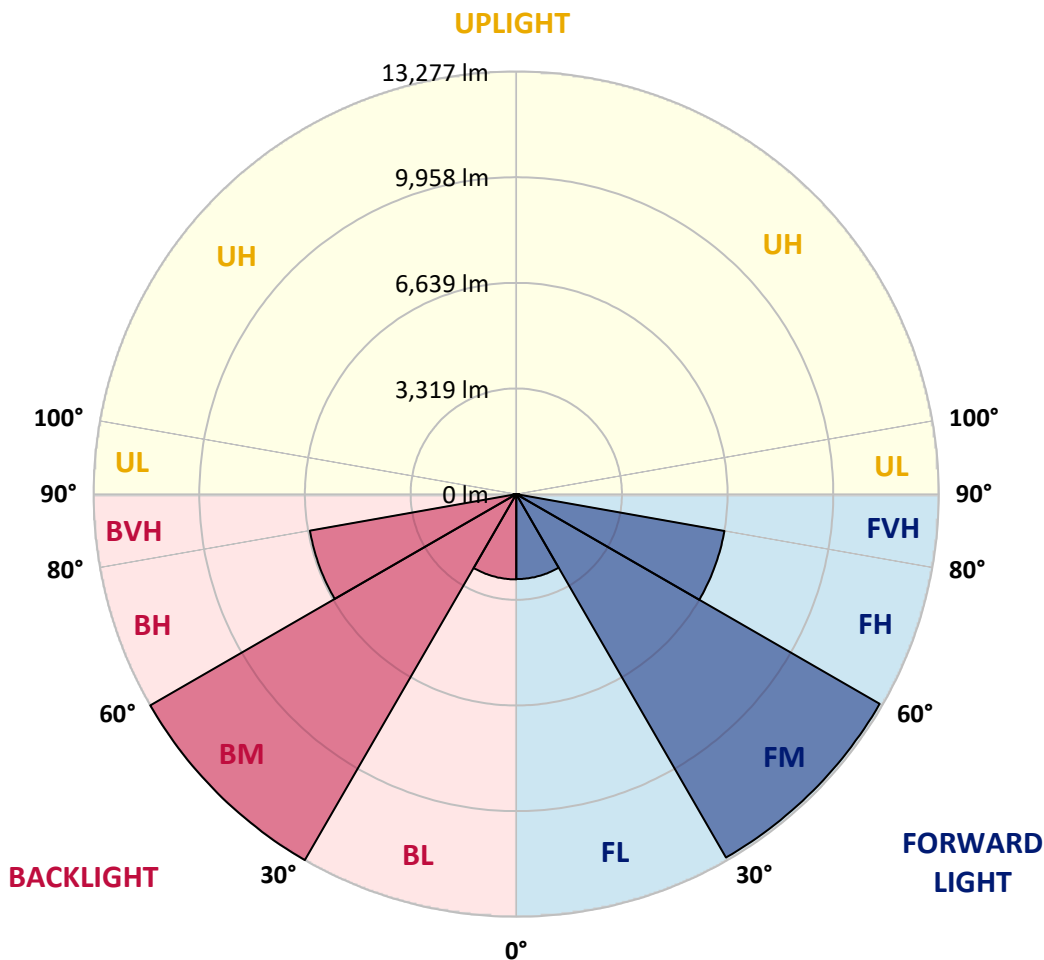
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2669.2	5.9			
FM	(30°-60°)	13182.2	29.1			
FH	(60°-80°)	6642.1	14.7			G3/7500
FVH	(80°-90°)	98.4	0.2			G1/100
BL	(0°-30°)	2679.5	5.9	B4/5000		
BM	(30°-60°)	13277.4	29.4	B5		
BH	(60°-80°)	6584.8	14.6	B5		G3/7500
BVH	(80°-90°)	93.4	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°	5295.1	5295.1	5295.1	5295.1	5295.1	5295.1	5295.1	5295.1	5295.1	5295.1	5295.1
2.5°	5232.9	5243.3	5336.6	5300.3	5331.4	5274.4	5315.9	5404.1	5300.3	5378.1	5404.1
5°	5290.0	5305.5	5305.5	5341.8	5362.6	5352.2	5378.1	5341.8	5440.4	5398.9	5461.1
7.5°	5497.4	5471.5	5430.0	5461.1	5466.3	5492.2	5518.2	5564.8	5549.3	5513.0	5575.2
10°	5533.7	5513.0	5575.2	5580.4	5554.5	5533.7	5559.6	5559.6	5606.3	5616.7	5616.7
12.5°	5595.9	5616.7	5611.5	5653.0	5658.2	5642.6	5684.1	5761.9	5741.2	5756.7	5720.4
15°	5834.5	5808.6	5803.4	5844.9	5912.3	5813.8	5886.4	5881.2	5860.4	5891.6	5808.6
17.5°	6042.0	5959.0	5995.3	6062.7	6036.8	6057.5	6150.9	6067.9	6088.6	6052.3	6026.4
20°	6223.5	6156.1	6161.2	6187.2	6187.2	6249.4	6285.7	6254.6	6233.9	6228.7	6239.0
22.5°	6425.7	6347.9	6353.1	6462.0	6498.3	6477.6	6451.7	6503.5	6513.9	6472.4	6519.1
25°	6576.1	6659.1	6685.1	6736.9	6659.1	6716.2	6695.4	6794.0	6856.2	6773.2	6830.3
27.5°	6970.3	6934.0	7001.4	6996.2	7058.5	7001.4	7037.7	7068.8	7094.8	7100.0	7074.0
30°	7323.0	7338.5	7271.1	7452.6	7307.4	7400.8	7463.0	7478.5	7509.7	7509.7	7431.9
32.5°	7696.4	7665.3	7774.2	7732.7	7706.7	7779.3	7711.9	7924.6	7800.1	7872.7	7784.5
35°	8116.5	8116.5	8157.9	8272.0	8116.5	8069.8	8194.2	8282.4	8282.4	8152.8	8183.9
37.5°	8588.4	8546.9	8598.8	8744.0	8624.7	8469.1	8697.3	8733.6	8707.7	8671.4	8609.1
40°	8920.3	8909.9	9013.7	9205.6	9034.4	9003.3	9044.8	9143.3	9174.4	9210.7	9127.8
42.5°	9480.4	9527.1	9827.9	9781.2	9641.2	9532.3	9521.9	9890.1	9802.0	9708.6	9662.0
45°	10310.2	10268.7	10424.3	10429.5	10248.0	10009.4	10061.3	10398.4	10548.8	10341.3	10419.1
47.5°	10968.9	10989.6	11098.5	11321.5	10901.5	10652.5	10844.4	11389.0	11342.3	11264.5	11337.1
50°	11850.5	11943.9	12286.2	12208.4	11835.0	11529.0	11949.1	12462.5	12519.6	12234.3	12182.5
52.5°	13069.3	13214.5	13401.2	13463.5	13105.6	12996.7	13022.6	13660.5	13520.5	13245.6	13069.3
55°	14137.7	14205.1	14547.4	15060.8	15034.9	14511.1	14811.9	15050.4	14480.0	13914.7	13961.3
57.5°	14594.1	14625.2	15579.4	16606.3	17218.3	17337.6	16995.3	16191.4	14832.6	13743.5	13676.1
60°	13458.3	13753.9	14905.2	17223.5	20018.9	21398.4	19121.6	16321.1	14008.0	12685.5	12587.0
62.5°	10756.2	10771.8	12483.3	15999.5	21761.4	25376.2	19935.9	15102.3	11809.1	10310.2	9916.1
64°	7660.1	7805.3	9770.9	14163.6	21398.4	26994.3	19837.3	13510.1	9734.6	7608.2	7333.3
65°	5497.4	5699.7	7597.8	12296.6	20547.9	26802.4	19541.7	12141.0	7872.7	5808.6	5528.5
67.5°	2022.6	2105.6	2982.1	6150.9	14754.8	22840.2	15486.1	6674.7	3459.2	2463.5	2214.5
70°	938.7	943.9	1104.7	2033.0	6451.7	15273.5	7390.4	2505.0	1301.7	1032.1	959.5
72.5°	689.8	705.3	772.7	938.7	1898.2	6467.2	2427.2	1026.9	762.4	674.2	658.7
75°	560.1	570.5	591.2	679.4	876.5	1732.2	985.4	710.5	606.8	544.6	523.8
77.5°	430.5	430.5	477.1	518.6	580.9	809.1	653.5	565.3	492.7	430.5	414.9
80°	311.2	316.4	373.4	404.5	394.2	534.2	471.9	466.8	404.5	337.1	311.2
82.5°	181.5	197.1	269.7	290.4	280.1	316.4	342.3	363.0	316.4	233.4	212.6
85°	103.7	108.9	155.6	160.8	160.8	150.4	197.1	217.8	212.6	145.2	129.7
87.5°	31.1	31.1	41.5	41.5	46.7	51.9	77.8	93.4	103.7	72.6	67.4
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):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	5295.1	5295.1	5295.1	5295.1	5295.1	5295.1	5295.1	5295.1	5295.1	5295.1	5295.1
2.5°	5378.1	5300.3	5305.5	5326.3	5258.8	5284.8	5362.6	5305.5	5290.0	5258.8	5243.3
5°	5352.2	5435.2	5404.1	5414.4	5398.9	5326.3	5315.9	5362.6	5388.5	5341.8	5435.2
7.5°	5533.7	5497.4	5455.9	5471.5	5435.2	5497.4	5538.9	5445.5	5492.2	5466.3	5414.4
10°	5637.4	5570.0	5601.1	5590.8	5564.8	5627.1	5585.6	5575.2	5533.7	5476.7	5559.6
12.5°	5673.7	5751.5	5803.4	5715.2	5730.8	5699.7	5673.7	5673.7	5627.1	5611.5	5627.1
15°	5834.5	5901.9	5881.2	5948.6	5860.4	5891.6	5922.7	5844.9	5886.4	5772.3	5860.4
17.5°	6130.1	6073.1	6145.7	6057.5	6088.6	6150.9	6052.3	6052.3	6083.5	6021.2	5943.4
20°	6316.8	6290.9	6265.0	6270.2	6218.3	6275.3	6244.2	6228.7	6182.0	6202.7	6244.2
22.5°	6493.2	6456.9	6467.2	6482.8	6519.1	6493.2	6477.6	6493.2	6379.1	6482.8	6337.6
25°	6711.0	6809.5	6778.4	6845.8	6742.1	6809.5	6804.3	6705.8	6768.0	6726.5	6695.4
27.5°	7074.0	7022.2	7068.8	6985.9	7058.5	7063.6	7001.4	7167.4	7094.8	7084.4	7063.6
30°	7540.8	7504.5	7473.4	7426.7	7483.7	7437.1	7488.9	7504.5	7437.1	7385.2	7286.7
32.5°	7805.3	7903.8	7940.1	7826.0	7831.2	7857.1	7810.5	7763.8	7805.3	7820.8	7805.3
35°	8178.7	8272.0	8292.8	8204.6	8157.9	8287.6	8194.2	8349.8	8215.0	8220.2	8080.1
37.5°	8614.3	8640.3	8816.6	8718.1	8676.6	8614.3	8785.5	8764.7	8795.9	8546.9	8671.4
40°	9107.0	9200.4	9298.9	9050.0	9044.8	9101.8	9091.5	9210.7	9153.7	9117.4	9029.2
42.5°	9646.4	9843.5	9859.0	9693.1	9589.3	9579.0	9630.8	9895.3	9900.5	9662.0	9558.2
45°	10362.1	10579.9	10522.9	10201.3	10087.2	10071.7	10325.8	10439.9	10538.4	10445.1	10356.9
47.5°	11254.1	11399.3	11357.8	11062.2	10694.0	10797.7	11046.7	11404.5	11300.8	11176.3	11072.6
50°	12208.4	12379.5	12291.4	11995.8	11643.1	11643.1	11949.1	12405.5	12374.4	12130.6	12037.2
52.5°	13266.4	13515.3	13717.6	13297.5	13001.9	13048.6	13530.9	13696.8	13619.0	13447.9	13370.1
55°	14054.7	14531.8	14946.7	14967.5	14983.0	14977.8	15102.3	15268.3	14713.3	14438.5	14158.4
57.5°	13862.8	14765.2	16186.2	17150.9	17436.1	17586.5	17545.0	16777.5	15465.3	14562.9	14656.3
60°	12493.6	13966.5	16258.8	19355.0	21429.5	21222.1	20464.9	17430.9	15050.4	13525.7	13333.8
62.5°	9967.9	11741.6	15040.1	19977.4	25692.6	25630.4	21668.1	15921.7	12540.3	10611.0	10491.7
64°	7509.7	9376.7	13416.8	19816.6	27186.2	27248.5	21362.1	14065.1	9812.4	7509.7	7328.1
65°	5746.3	7478.5	11824.6	19484.7	26864.7	26901.0	20511.5	12146.2	7457.8	5331.4	5134.4
67.5°	2287.1	3184.3	6415.4	14775.6	23068.4	22969.8	14635.5	5876.0	2852.4	1856.7	1820.4
70°	975.0	1213.6	2250.8	7001.4	15444.6	15159.4	6301.3	1908.5	1058.0	886.8	881.7
72.5°	669.0	741.6	964.6	2162.7	6420.6	6270.2	1794.4	886.8	720.9	663.8	663.8
75°	539.4	591.2	700.1	907.6	1701.1	1638.8	845.4	653.5	575.7	534.2	529.0
77.5°	420.1	471.9	549.7	627.5	777.9	772.7	565.3	492.7	446.0	414.9	404.5
80°	331.9	383.8	435.6	446.0	508.3	497.9	383.8	389.0	363.0	300.8	295.6
82.5°	228.2	311.2	347.5	316.4	300.8	300.8	274.9	274.9	254.1	186.7	171.1
85°	140.0	207.4	217.8	186.7	140.0	140.0	150.4	145.2	134.8	98.5	93.4
87.5°	72.6	98.5	88.2	72.6	46.7	46.7	41.5	31.1	31.1	25.9	25.9
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)