

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: P478885

Luminaire Tested: **IFLD-L-SA7C-730-U-5NQ**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P478885
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-730-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ
distribution lens
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

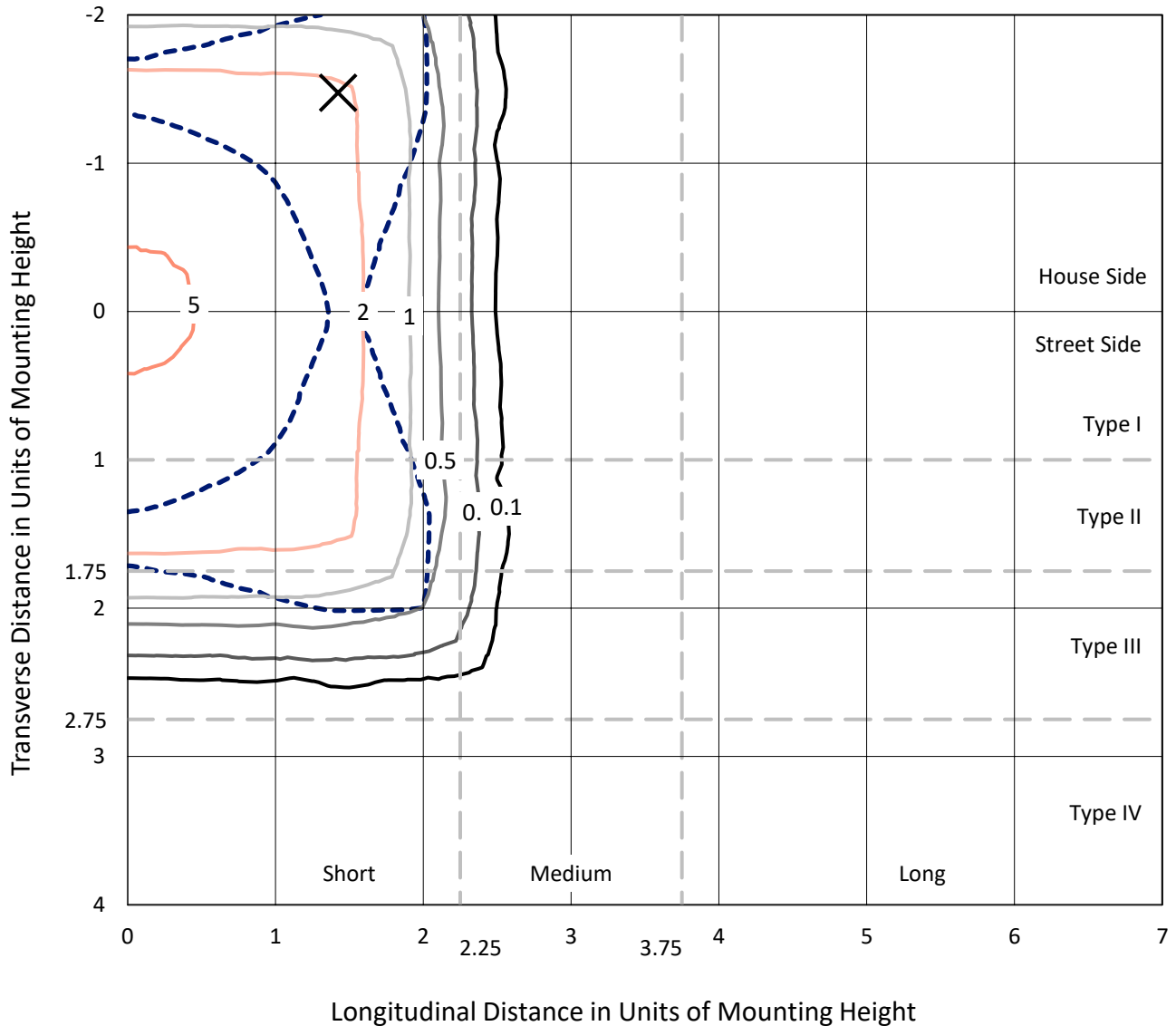
Lumens per Lamp: N/A
Luminaire Lumens: 40261.6 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

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

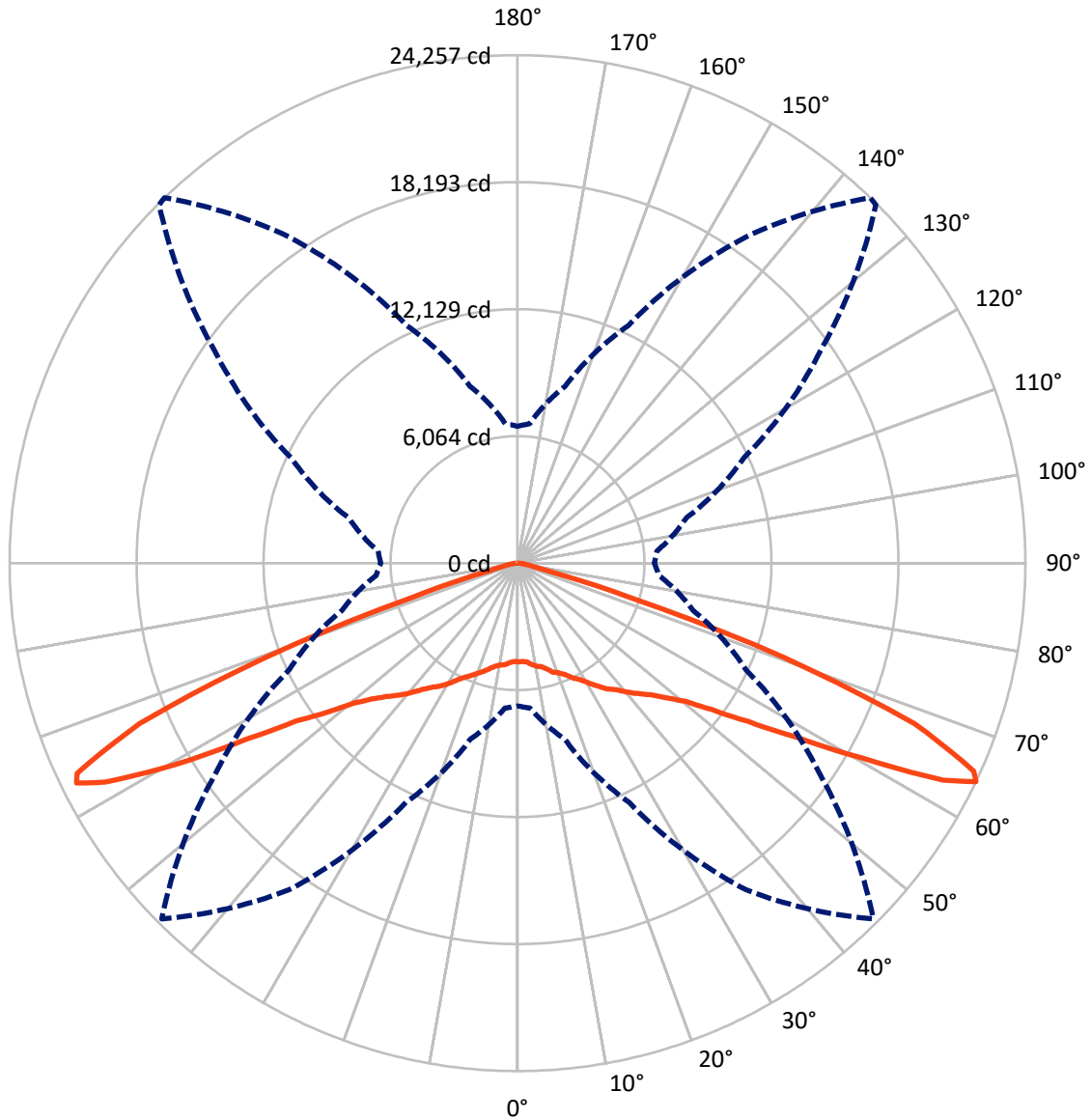
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 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	20150.0	0.0	20150.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20111.6	0.0	20111.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	40261.6	0.0	40261.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.2	1.2
10°-20°	1492.8	3.7
20°-30°	2805.6	7.0
30°-40°	4626.9	11.5
40°-50°	7236.1	18.0
50°-60°	11691.8	29.0
60°-70°	10527.7	26.1
70°-80°	1247.0	3.1
80°-90°	170.7	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°	40261.6	100.0
0°-180°	40261.6	100.0

Coefficient of Utilization



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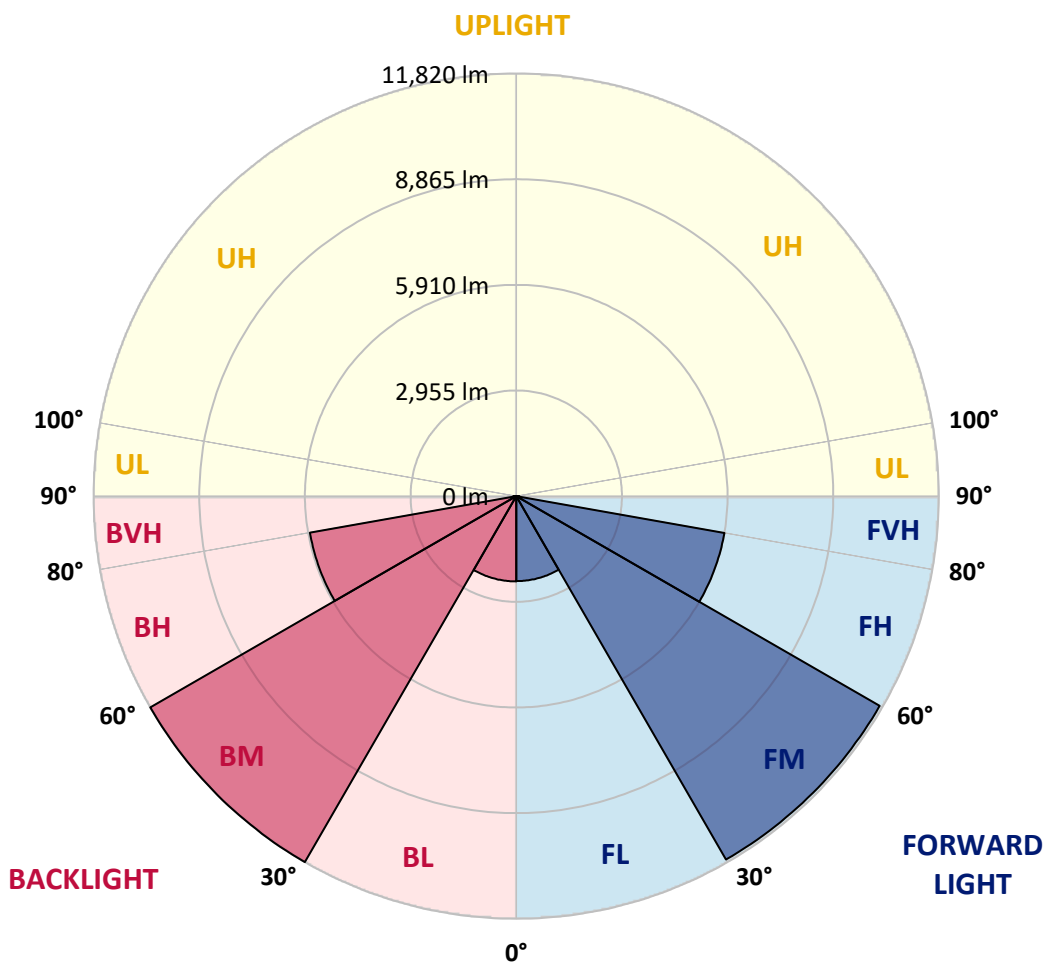
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2376.2	5.9			
FM (30°-60°)	11735.0	29.1			
FH (60°-80°)	5912.9	14.7			G3/7500
FVH (80°-90°)	87.6	0.2			G1/100
BL (0°-30°)	2385.3	5.9	B3/2500		
BM (30°-60°)	11819.7	29.4	B5		
BH (60°-80°)	5861.8	14.6	B5		G3/7500
BVH (80°-90°)	83.1	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°	4713.8	4713.8	4713.8	4713.8	4713.8	4713.8	4713.8	4713.8	4713.8	4713.8	4713.8
2.5°	4658.4	4667.6	4750.7	4718.4	4746.1	4695.3	4732.3	4810.8	4718.4	4787.7	4810.8
5°	4709.2	4723.0	4723.0	4755.4	4773.8	4764.6	4787.7	4755.4	4843.1	4806.1	4861.6
7.5°	4893.9	4870.8	4833.8	4861.6	4866.2	4889.3	4912.3	4953.9	4940.0	4907.7	4963.1
10°	4926.2	4907.7	4963.1	4967.7	4944.7	4926.2	4949.3	4949.3	4990.8	5000.1	5000.1
12.5°	4981.6	5000.1	4995.4	5032.4	5037.0	5023.1	5060.1	5129.3	5110.9	5124.7	5092.4
15°	5194.0	5170.9	5166.3	5203.2	5263.2	5175.5	5240.1	5235.5	5217.0	5244.7	5170.9
17.5°	5378.6	5304.8	5337.1	5397.1	5374.0	5392.5	5475.6	5401.7	5420.2	5387.9	5364.8
20°	5540.2	5480.2	5484.8	5507.9	5507.9	5563.3	5595.6	5567.9	5549.5	5544.8	5554.1
22.5°	5720.3	5651.0	5655.6	5752.6	5784.9	5766.5	5743.4	5789.5	5798.8	5761.8	5803.4
25°	5854.2	5928.0	5951.1	5997.3	5928.0	5978.8	5960.4	6048.1	6103.5	6029.6	6080.4
27.5°	6205.1	6172.7	6232.8	6228.1	6283.5	6232.8	6265.1	6292.8	6315.9	6320.5	6297.4
30°	6519.0	6532.9	6472.8	6634.4	6505.2	6588.3	6643.7	6657.5	6685.2	6685.2	6616.0
32.5°	6851.4	6823.7	6920.7	6883.7	6860.6	6925.3	6865.3	7054.6	6943.8	7008.4	6929.9
35°	7225.4	7225.4	7262.3	7363.9	7225.4	7183.8	7294.6	7373.1	7373.1	7257.7	7285.4
37.5°	7645.5	7608.6	7654.7	7784.0	7677.8	7539.3	7742.5	7774.8	7751.7	7719.4	7664.0
40°	7941.0	7931.8	8024.1	8194.9	8042.6	8014.9	8051.8	8139.5	8167.2	8199.5	8125.7
42.5°	8439.6	8481.2	8748.9	8707.4	8582.7	8485.8	8476.5	8804.3	8725.9	8642.8	8601.2
45°	9178.3	9141.4	9279.9	9284.5	9122.9	8910.5	8956.7	9256.8	9390.7	9206.0	9275.3
47.5°	9764.7	9783.1	9880.1	10078.6	9704.6	9483.0	9653.8	10138.6	10097.1	10027.8	10092.4
50°	10549.5	10632.6	10937.3	10868.1	10535.7	10263.3	10637.2	11094.3	11145.1	10891.2	10845.0
52.5°	11634.5	11763.8	11930.0	11985.4	11666.8	11569.8	11592.9	12160.8	12036.1	11791.5	11634.5
55°	12585.6	12645.6	12950.3	13407.4	13384.3	12918.0	13185.7	13398.1	12890.3	12387.0	12428.6
57.5°	12991.8	13019.5	13869.0	14783.2	15328.0	15434.2	15129.4	14413.8	13204.2	12234.7	12174.7
60°	11980.7	12243.9	13268.8	15332.6	17821.1	19049.2	17022.4	14529.2	12470.1	11292.8	11205.1
62.5°	9575.4	9589.2	11112.8	14243.0	19372.3	22590.3	17747.2	13444.3	10512.6	9178.3	8827.4
64°	6819.1	6948.4	8698.2	12608.6	19049.2	24030.7	17659.5	12026.9	8665.8	6772.9	6528.2
65°	4893.9	5073.9	6763.7	10946.6	18292.0	23859.9	17396.3	10808.1	7008.4	5170.9	4921.6
67.5°	1800.6	1874.4	2654.7	5475.6	13135.0	20332.6	13785.9	5941.9	3079.4	2193.0	1971.4
70°	835.7	840.3	983.4	1809.8	5743.4	13596.6	6579.0	2229.9	1158.8	918.8	854.1
72.5°	614.0	627.9	687.9	835.7	1689.8	5757.2	2160.7	914.1	678.7	600.2	586.3
75°	498.6	507.9	526.3	604.8	780.2	1542.0	877.2	632.5	540.2	484.8	466.3
77.5°	383.2	383.2	424.8	461.7	517.1	720.2	581.7	503.2	438.6	383.2	369.3
80°	277.0	281.6	332.4	360.1	350.9	475.5	420.1	415.5	360.1	300.1	277.0
82.5°	161.6	175.4	240.1	258.5	249.3	281.6	304.7	323.2	281.6	207.8	189.3
85°	92.3	97.0	138.5	143.1	143.1	133.9	175.4	193.9	189.3	129.3	115.4
87.5°	27.7	27.7	36.9	36.9	41.6	46.2	69.3	83.1	92.3	64.6	60.0
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°	4713.8	4713.8	4713.8	4713.8	4713.8	4713.8	4713.8	4713.8	4713.8	4713.8	4713.8
2.5°	4787.7	4718.4	4723.0	4741.5	4681.5	4704.6	4773.8	4723.0	4709.2	4681.5	4667.6
5°	4764.6	4838.5	4810.8	4820.0	4806.1	4741.5	4732.3	4773.8	4796.9	4755.4	4838.5
7.5°	4926.2	4893.9	4856.9	4870.8	4838.5	4893.9	4930.8	4847.7	4889.3	4866.2	4820.0
10°	5018.5	4958.5	4986.2	4977.0	4953.9	5009.3	4972.4	4963.1	4926.2	4875.4	4949.3
12.5°	5050.8	5120.1	5166.3	5087.8	5101.6	5073.9	5050.8	5050.8	5009.3	4995.4	5009.3
15°	5194.0	5254.0	5235.5	5295.5	5217.0	5244.7	5272.5	5203.2	5240.1	5138.6	5217.0
17.5°	5457.1	5406.3	5471.0	5392.5	5420.2	5475.6	5387.9	5387.9	5415.6	5360.2	5290.9
20°	5623.3	5600.2	5577.2	5581.8	5535.6	5586.4	5558.7	5544.8	5503.3	5521.8	5558.7
22.5°	5780.3	5748.0	5757.2	5771.1	5803.4	5780.3	5766.5	5780.3	5678.7	5771.1	5641.8
25°	5974.2	6061.9	6034.2	6094.3	6001.9	6061.9	6057.3	5969.6	6025.0	5988.1	5960.4
27.5°	6297.4	6251.2	6292.8	6218.9	6283.5	6288.2	6232.8	6380.5	6315.9	6306.6	6288.2
30°	6712.9	6680.6	6652.9	6611.3	6662.1	6620.6	6666.7	6680.6	6620.6	6574.4	6486.7
32.5°	6948.4	7036.1	7068.4	6966.8	6971.5	6994.5	6953.0	6911.4	6948.4	6962.2	6948.4
35°	7280.8	7363.9	7382.4	7303.9	7262.3	7377.7	7294.6	7433.1	7313.1	7317.7	7193.1
37.5°	7668.6	7691.7	7848.7	7760.9	7724.0	7668.6	7821.0	7802.5	7830.2	7608.6	7719.4
40°	8107.2	8190.3	8278.0	8056.4	8051.8	8102.6	8093.4	8199.5	8148.8	8116.4	8037.9
42.5°	8587.4	8762.8	8776.6	8628.9	8536.6	8527.3	8573.5	8809.0	8813.6	8601.2	8508.9
45°	9224.5	9418.4	9367.6	9081.4	8979.8	8965.9	9192.2	9293.7	9381.5	9298.4	9219.9
47.5°	10018.6	10147.9	10110.9	9847.8	9520.0	9612.3	9833.9	10152.5	10060.1	9949.3	9857.0
50°	10868.1	11020.4	10942.0	10678.8	10364.8	10364.8	10637.2	11043.5	11015.8	10798.8	10715.7
52.5°	11809.9	12031.5	12211.6	11837.6	11574.5	11616.0	12045.4	12193.1	12123.9	11971.5	11902.3
55°	12511.7	12936.4	13305.8	13324.2	13338.1	13333.5	13444.3	13592.0	13098.0	12853.3	12604.0
57.5°	12340.9	13144.2	14409.2	15267.9	15521.9	15655.8	15618.8	14935.5	13767.5	12964.1	13047.2
60°	11122.0	12433.2	14473.8	17230.1	19076.9	18892.2	18218.1	15517.3	13398.1	12040.8	11869.9
62.5°	8873.6	10452.6	13388.9	17784.1	22871.9	22816.5	19289.2	14173.8	11163.6	9446.1	9339.9
64°	6685.2	8347.3	11943.8	17641.0	24201.6	24257.0	19016.8	12520.9	8735.1	6685.2	6523.6
65°	5115.5	6657.5	10526.4	17345.5	23915.3	23947.6	18259.7	10812.7	6639.0	4746.1	4570.7
67.5°	2036.0	2834.8	5711.1	13153.4	20535.8	20448.1	13028.8	5230.9	2539.3	1652.8	1620.5
70°	868.0	1080.3	2003.7	6232.8	13749.0	13495.1	5609.5	1699.0	941.8	789.5	784.9
72.5°	595.6	660.2	858.7	1925.2	5715.7	5581.8	1597.4	789.5	641.7	591.0	591.0
75°	480.2	526.3	623.3	807.9	1514.3	1458.9	752.5	581.7	512.5	475.5	470.9
77.5°	374.0	420.1	489.4	558.6	692.5	687.9	503.2	438.6	397.0	369.3	360.1
80°	295.5	341.6	387.8	397.0	452.5	443.2	341.6	346.3	323.2	267.8	263.2
82.5°	203.1	277.0	309.3	281.6	267.8	267.8	244.7	244.7	226.2	166.2	152.4
85°	124.7	184.7	193.9	166.2	124.7	124.7	133.9	129.3	120.0	87.7	83.1
87.5°	64.6	87.7	78.5	64.6	41.6	41.6	36.9	27.7	27.7	23.1	23.1
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)