

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: P479121

Luminaire Tested: **IFLD-L-SA7E-830-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479121
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-830-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

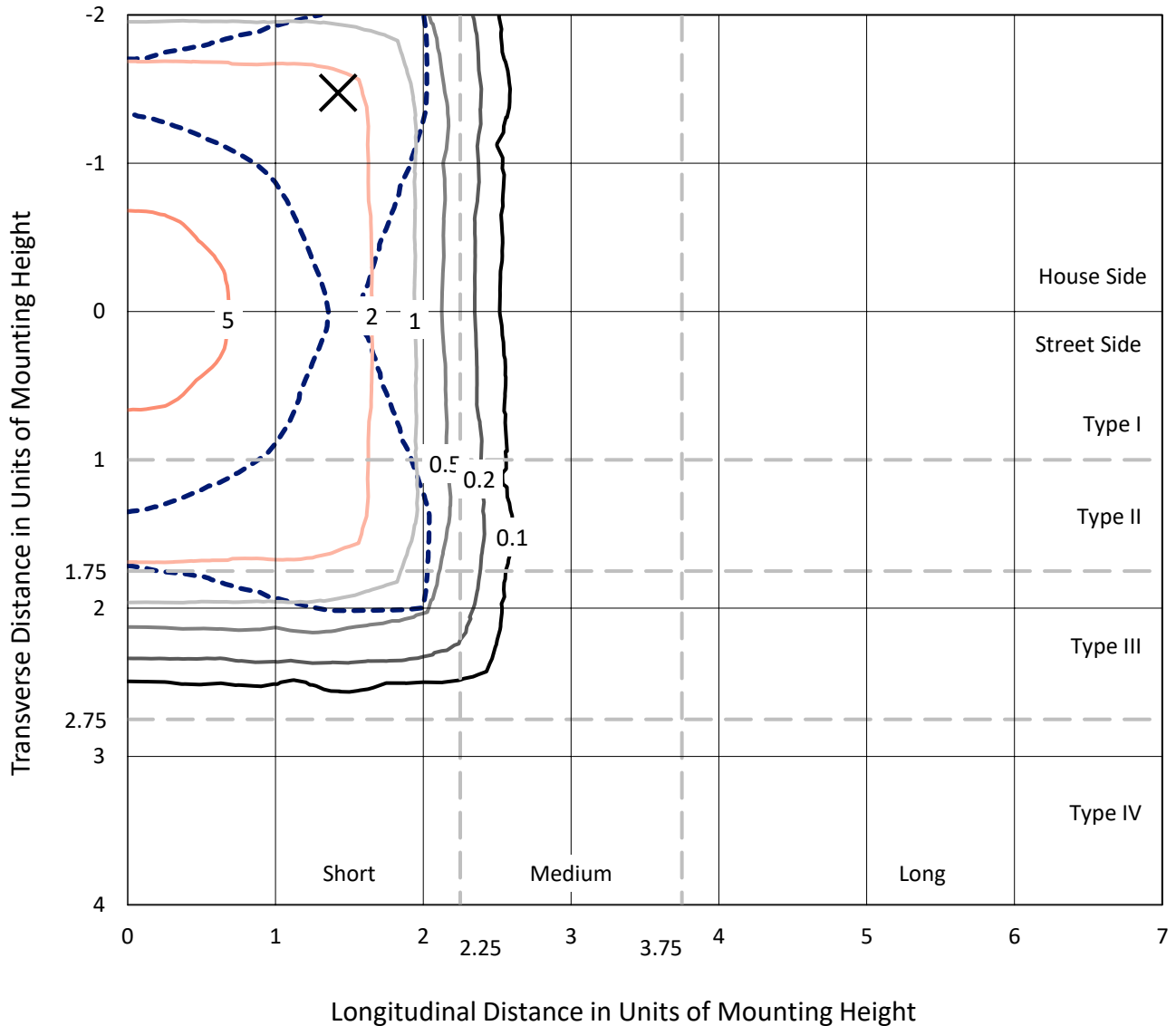
Lumens per Lamp: N/A
Luminaire Lumens: 44738.5 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 532.7
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

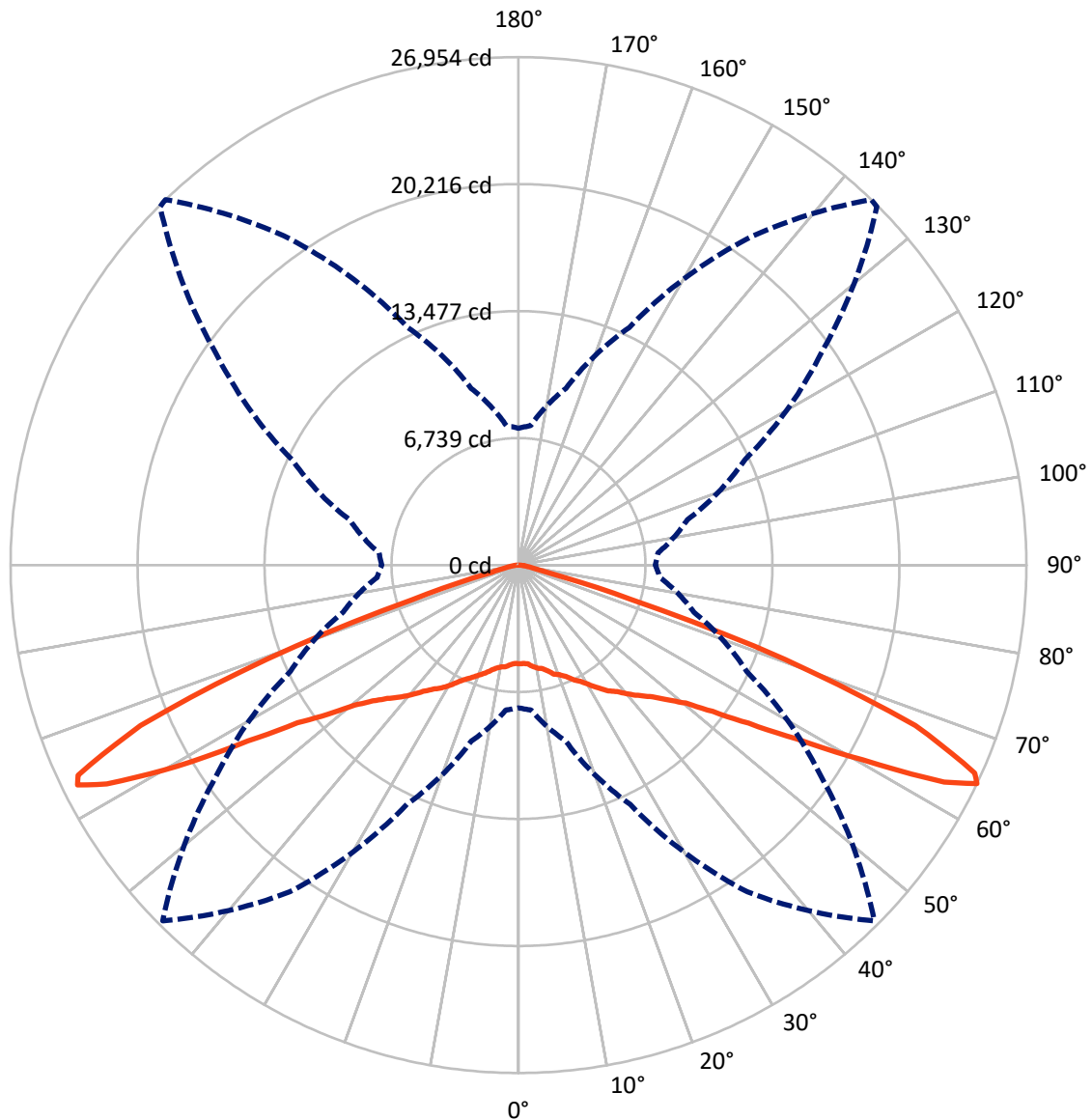
✕ Max cd
 - - - 1/2 Max cd



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	22390.6	0.0	22390.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22347.9	0.0	22347.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	44738.5	0.0	44738.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.7	1.2
10°-20°	1658.8	3.7
20°-30°	3117.5	7.0
30°-40°	5141.3	11.5
40°-50°	8040.7	18.0
50°-60°	12991.8	29.0
60°-70°	11698.3	26.1
70°-80°	1385.7	3.1
80°-90°	189.7	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°	44738.5	100.0
0°-180°	44738.5	100.0

Coefficient of Utilization



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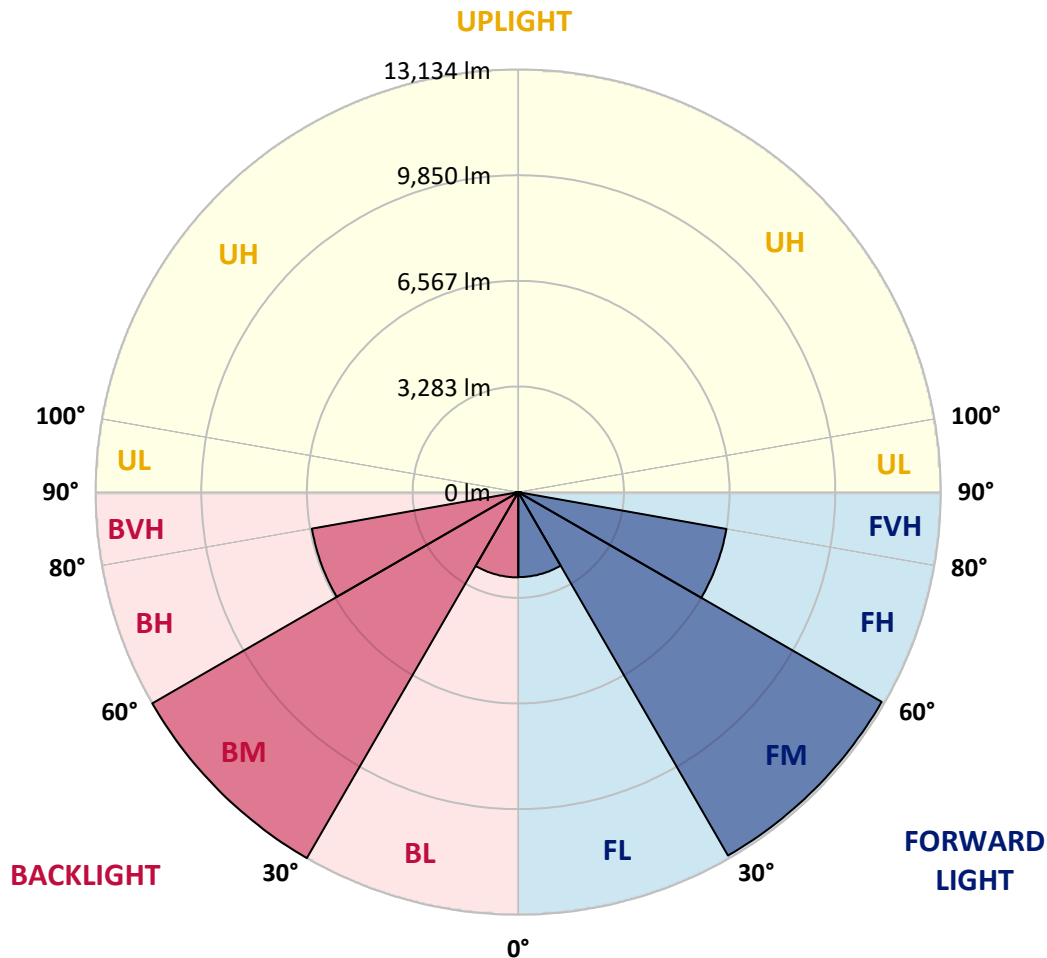
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2640.4	5.9			
FM (30°-60°)	13039.9	29.1			
FH (60°-80°)	6570.3	14.7			G3/7500
FVH (80°-90°)	97.3	0.2			G1/100
BL (0°-30°)	2650.6	5.9	B4/5000		
BM (30°-60°)	13134.0	29.4	B5		
BH (60°-80°)	6513.6	14.6	B5		G3/7500
BVH (80°-90°)	92.4	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°	5238.0	5238.0	5238.0	5238.0	5238.0	5238.0	5238.0	5238.0	5238.0	5238.0	5238.0
2.5°	5176.4	5186.7	5279.0	5243.1	5273.9	5217.4	5258.5	5345.7	5243.1	5320.0	5345.7
5°	5232.8	5248.2	5248.2	5284.1	5304.7	5294.4	5320.0	5284.1	5381.6	5340.6	5402.1
7.5°	5438.0	5412.4	5371.3	5402.1	5407.3	5432.9	5458.6	5504.7	5489.3	5453.4	5515.0
10°	5473.9	5453.4	5515.0	5520.1	5494.5	5473.9	5499.6	5499.6	5545.8	5556.0	5556.0
12.5°	5535.5	5556.0	5550.9	5591.9	5597.1	5581.7	5622.7	5699.7	5679.2	5694.5	5658.6
15°	5771.5	5745.8	5740.7	5781.8	5848.5	5751.0	5822.8	5817.7	5797.2	5827.9	5745.8
17.5°	5976.7	5894.6	5930.5	5997.2	5971.6	5992.1	6084.4	6002.4	6022.9	5987.0	5961.3
20°	6156.3	6089.6	6094.7	6120.4	6120.4	6181.9	6217.8	6187.0	6166.5	6161.4	6171.7
22.5°	6356.3	6279.4	6284.5	6392.3	6428.2	6407.6	6382.0	6433.3	6443.6	6402.5	6448.7
25°	6505.1	6587.2	6612.9	6664.2	6587.2	6643.6	6623.1	6720.6	6782.2	6700.1	6756.5
27.5°	6895.0	6859.1	6925.8	6920.7	6982.2	6925.8	6961.7	6992.5	7018.1	7023.3	6997.6
30°	7243.9	7259.3	7192.6	7372.1	7228.5	7320.8	7382.4	7397.8	7428.6	7428.6	7351.6
32.5°	7613.3	7582.5	7690.2	7649.2	7623.5	7695.3	7628.6	7839.0	7715.9	7787.7	7700.5
35°	8028.8	8028.8	8069.8	8182.7	8028.8	7982.6	8105.8	8193.0	8193.0	8064.7	8095.5
37.5°	8495.6	8454.6	8505.9	8649.6	8531.6	8377.7	8603.4	8639.3	8613.6	8577.7	8516.2
40°	8824.0	8813.7	8916.3	9106.1	8936.8	8906.1	8947.1	9044.6	9075.4	9111.3	9029.2
42.5°	9378.0	9424.2	9721.8	9675.6	9537.1	9429.3	9419.1	9783.3	9696.1	9603.8	9557.6
45°	10198.9	10157.8	10311.7	10316.9	10137.3	9901.3	9952.6	10286.1	10434.9	10229.7	10306.6
47.5°	10850.4	10870.9	10978.7	11199.3	10783.7	10537.5	10727.3	11266.0	11219.8	11142.8	11214.7
50°	11722.6	11814.9	12153.5	12076.5	11707.2	11404.5	11820.0	12327.9	12384.4	12102.2	12050.9
52.5°	12928.2	13071.8	13256.5	13318.1	12964.1	12856.3	12882.0	13513.0	13374.5	13102.6	12928.2
55°	13985.0	14051.7	14390.3	14898.2	14872.5	14354.4	14651.9	14887.9	14323.6	13764.4	13810.6
57.5°	14436.4	14467.2	15411.2	16427.0	17032.3	17150.3	16811.7	16016.6	14672.4	13595.1	13528.4
60°	13312.9	13605.4	14744.3	17037.5	19802.7	21167.3	18915.1	16144.8	13856.7	12548.5	12451.1
62.5°	10640.1	10655.5	12348.4	15826.7	21526.4	25102.2	19720.6	14939.2	11681.5	10198.9	9809.0
64°	7577.3	7721.0	9665.3	14010.6	21167.3	26702.8	19623.1	13364.2	9629.4	7526.0	7254.1
65°	5438.0	5638.1	7515.8	12163.8	20325.9	26513.0	19330.7	12009.9	7787.7	5745.8	5468.8
67.5°	2000.8	2082.9	2949.9	6084.4	14595.5	22593.5	15318.8	6602.6	3421.9	2436.9	2190.6
70°	928.6	933.7	1092.7	2011.0	6382.0	15108.5	7310.6	2477.9	1287.7	1020.9	949.1
72.5°	682.3	697.7	764.4	928.6	1877.7	6397.4	2400.9	1015.8	754.1	666.9	651.5
75°	554.1	564.3	584.8	672.1	867.0	1713.5	974.7	702.8	600.2	538.7	518.2
77.5°	425.8	425.8	472.0	513.0	574.6	800.3	646.4	559.2	487.4	425.8	410.4
80°	307.8	312.9	369.4	400.2	389.9	528.4	466.9	461.7	400.2	333.5	307.8
82.5°	179.6	194.9	266.8	287.3	277.0	312.9	338.6	359.1	312.9	230.9	210.3
85°	102.6	107.7	153.9	159.0	159.0	148.8	194.9	215.5	210.3	143.6	128.3
87.5°	30.8	30.8	41.0	41.0	46.2	51.3	77.0	92.3	102.6	71.8	66.7
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°	5238.0	5238.0	5238.0	5238.0	5238.0	5238.0	5238.0	5238.0	5238.0	5238.0	5238.0
2.5°	5320.0	5243.1	5248.2	5268.7	5202.0	5227.7	5304.7	5248.2	5232.8	5202.0	5186.7
5°	5294.4	5376.5	5345.7	5356.0	5340.6	5268.7	5258.5	5304.7	5330.3	5284.1	5376.5
7.5°	5473.9	5438.0	5397.0	5412.4	5376.5	5438.0	5479.1	5386.7	5432.9	5407.3	5356.0
10°	5576.6	5509.9	5540.6	5530.4	5504.7	5566.3	5525.3	5515.0	5473.9	5417.5	5499.6
12.5°	5612.5	5689.4	5740.7	5653.5	5668.9	5638.1	5612.5	5612.5	5566.3	5550.9	5566.3
15°	5771.5	5838.2	5817.7	5884.4	5797.2	5827.9	5858.7	5781.8	5822.8	5709.9	5797.2
17.5°	6063.9	6007.5	6079.3	5992.1	6022.9	6084.4	5987.0	5987.0	6017.8	5956.2	5879.2
20°	6248.6	6223.0	6197.3	6202.4	6151.1	6207.6	6176.8	6161.4	6115.2	6135.7	6176.8
22.5°	6423.0	6387.1	6397.4	6412.8	6448.7	6423.0	6407.6	6423.0	6310.2	6412.8	6269.1
25°	6638.5	6736.0	6705.2	6771.9	6669.3	6736.0	6730.9	6633.4	6694.9	6653.9	6623.1
27.5°	6997.6	6946.3	6992.5	6910.4	6982.2	6987.4	6925.8	7090.0	7018.1	7007.9	6987.4
30°	7459.3	7423.4	7392.7	7346.5	7402.9	7356.7	7408.0	7423.4	7356.7	7305.4	7208.0
32.5°	7721.0	7818.5	7854.4	7741.5	7746.6	7772.3	7726.1	7679.9	7721.0	7736.4	7721.0
35°	8090.4	8182.7	8203.2	8116.0	8069.8	8198.1	8105.8	8259.7	8126.3	8131.4	7992.9
37.5°	8521.3	8547.0	8721.4	8623.9	8582.9	8521.3	8690.6	8670.1	8700.9	8454.6	8577.7
40°	9008.7	9101.0	9198.5	8952.2	8947.1	9003.5	8993.3	9111.3	9054.8	9018.9	8931.7
42.5°	9542.2	9737.2	9752.6	9588.4	9485.8	9475.5	9526.8	9788.5	9793.6	9557.6	9455.0
45°	10250.2	10465.7	10409.2	10091.1	9978.3	9962.9	10214.3	10327.1	10424.6	10332.3	10245.1
47.5°	11132.6	11276.2	11235.2	10942.8	10578.5	10681.1	10927.4	11281.4	11178.8	11055.6	10953.0
50°	12076.5	12245.8	12158.6	11866.2	11517.4	11517.4	11820.0	12271.5	12240.7	11999.6	11907.2
52.5°	13123.1	13369.4	13569.4	13153.9	12861.5	12907.6	13384.8	13548.9	13472.0	13302.7	13225.7
55°	13902.9	14374.9	14785.3	14805.8	14821.2	14816.1	14939.2	15103.4	14554.4	14282.5	14005.5
57.5°	13713.1	14605.7	16011.4	16965.6	17247.8	17396.6	17355.5	16596.3	15298.3	14405.7	14498.0
60°	12358.7	13815.7	16083.2	19146.0	21198.1	20992.9	20243.9	17242.7	14887.9	13379.6	13189.8
62.5°	9860.3	11614.8	14877.6	19761.6	25415.1	25353.6	21434.1	15749.8	12404.9	10496.4	10378.4
64°	7428.6	9275.4	13271.9	19602.6	26892.6	26954.2	21131.4	13913.2	9706.4	7428.6	7249.0
65°	5684.3	7397.8	11696.9	19274.2	26574.6	26610.5	20290.0	12015.0	7377.3	5273.9	5078.9
67.5°	2262.4	3150.0	6346.1	14616.0	22819.2	22721.8	14477.5	5812.5	2821.6	1836.6	1800.7
70°	964.5	1200.5	2226.5	6925.8	15277.8	14995.6	6233.2	1887.9	1046.6	877.3	872.1
72.5°	661.8	733.6	954.2	2139.3	6351.2	6202.4	1775.1	877.3	713.1	656.7	656.7
75°	533.5	584.8	692.6	897.8	1682.7	1621.2	836.2	646.4	569.5	528.4	523.3
77.5°	415.5	466.9	543.8	620.8	769.5	764.4	559.2	487.4	441.2	410.4	400.2
80°	328.3	379.6	430.9	441.2	502.8	492.5	379.6	384.8	359.1	297.6	292.4
82.5°	225.7	307.8	343.7	312.9	297.6	297.6	271.9	271.9	251.4	184.7	169.3
85°	138.5	205.2	215.5	184.7	138.5	138.5	148.8	143.6	133.4	97.5	92.3
87.5°	71.8	97.5	87.2	71.8	46.2	46.2	41.0	30.8	30.8	25.7	25.7
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)