

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: P478890

Luminaire Tested: **IFLD-L-SA8C-730-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478890
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-730-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

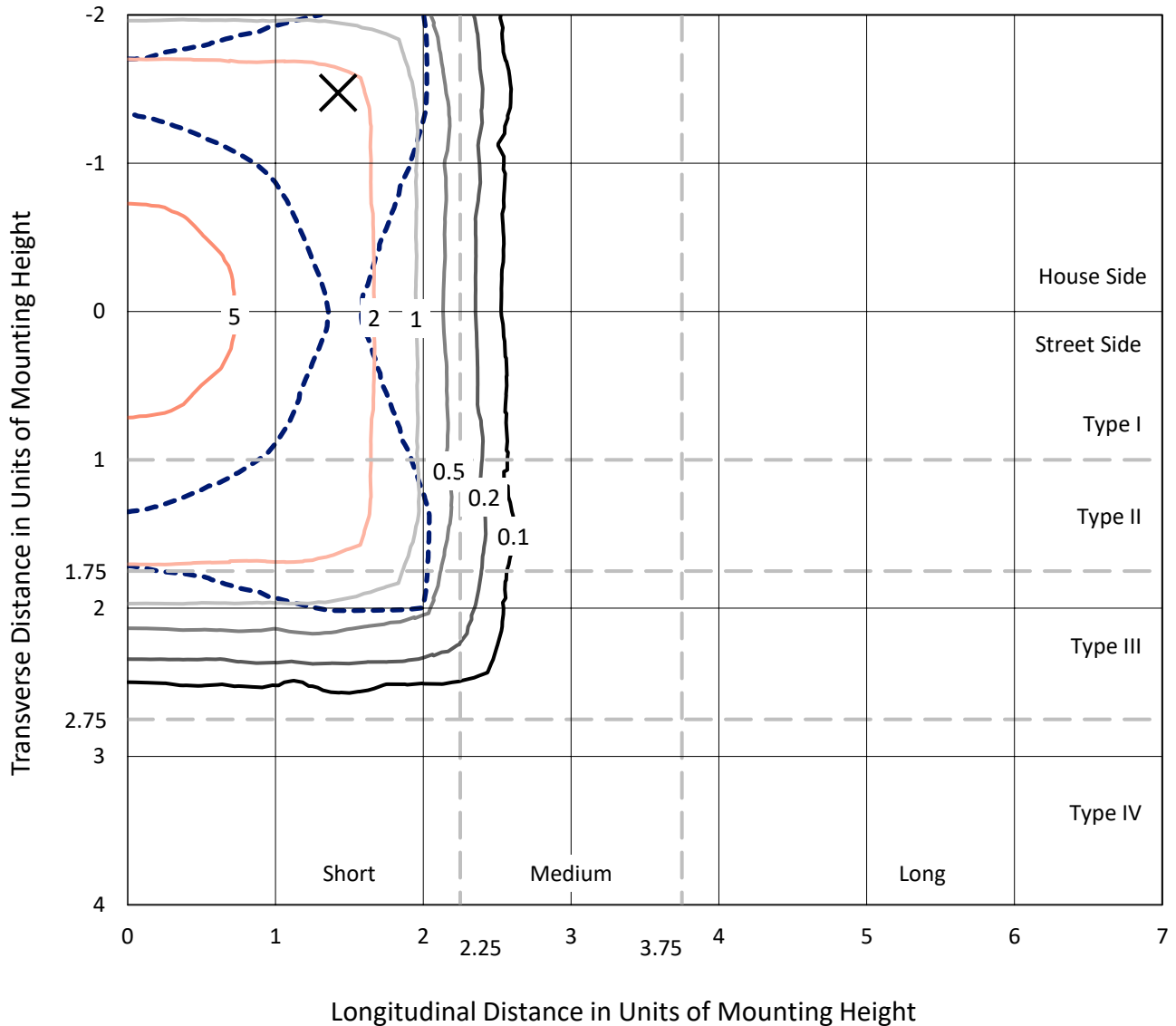
Lumens per Lamp: N/A
Luminaire Lumens: 46013.4 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 420.3
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

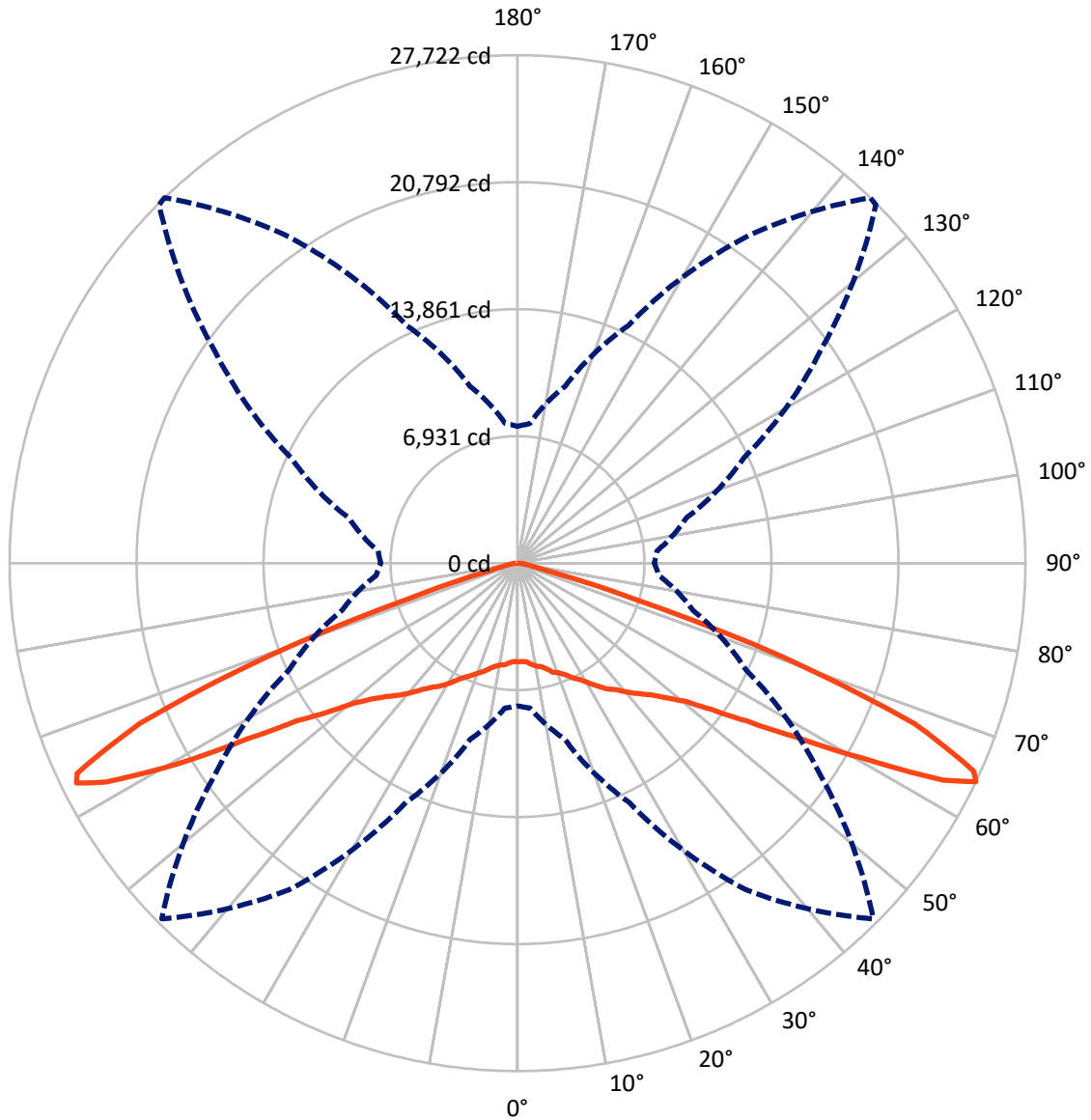
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 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	23028.7	0.0	23028.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22984.8	0.0	22984.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	46013.4	0.0	46013.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	529.3	1.2
10°-20°	1706.1	3.7
20°-30°	3206.4	7.0
30°-40°	5287.8	11.5
40°-50°	8269.8	18.0
50°-60°	13362.1	29.0
60°-70°	12031.7	26.1
70°-80°	1425.2	3.1
80°-90°	195.1	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°	46013.4	100.0
0°-180°	46013.4	100.0

Coefficient of Utilization



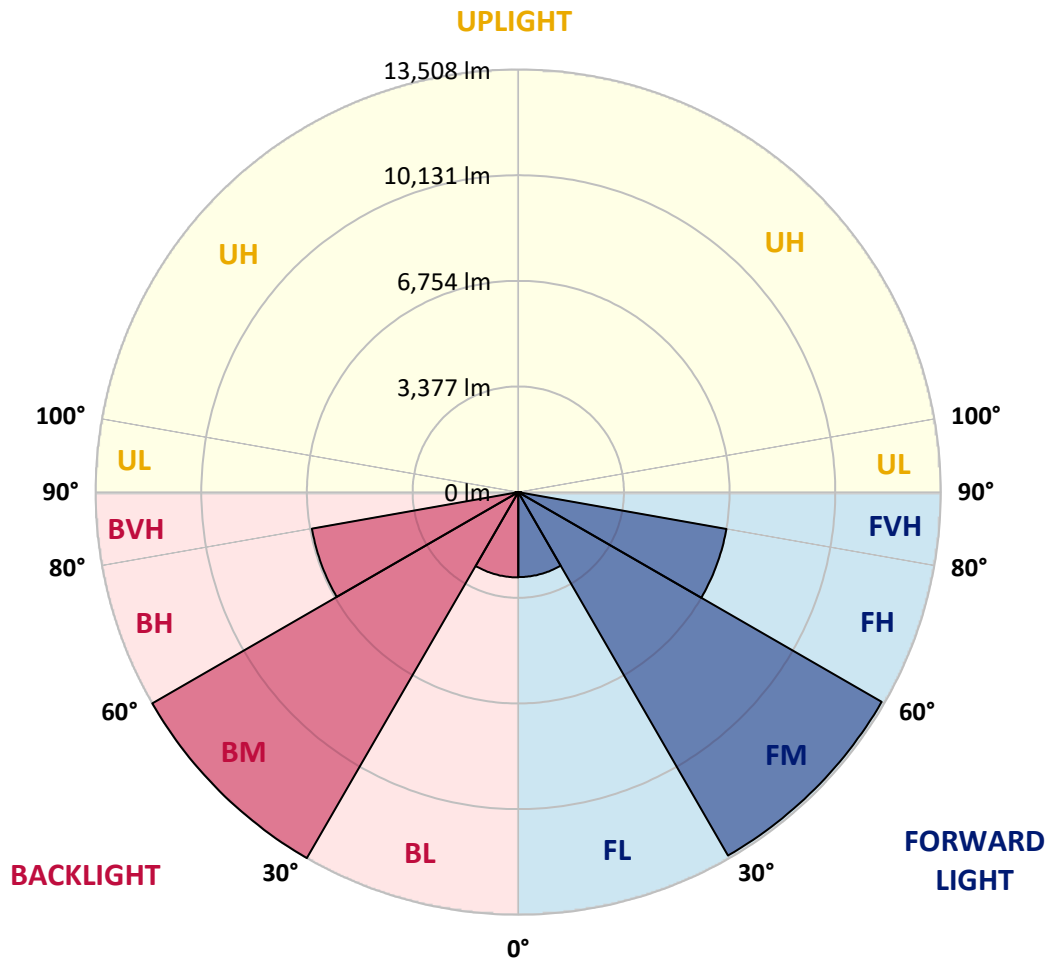
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2715.6	5.9			
FM (30°-60°)	13411.5	29.1			
FH (60°-80°)	6757.6	14.7			G3/7500
FVH (80°-90°)	100.1	0.2			G2/225
BL (0°-30°)	2726.1	5.9	B4/5000		
BM (30°-60°)	13508.3	29.4	B5		
BH (60°-80°)	6699.3	14.6	B5		G3/7500
BVH (80°-90°)	95.0	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°	5387.2	5387.2	5387.2	5387.2	5387.2	5387.2	5387.2	5387.2	5387.2	5387.2	5387.2
2.5°	5323.9	5334.5	5429.4	5392.5	5424.2	5366.1	5408.3	5498.0	5392.5	5471.7	5498.0
5°	5382.0	5397.8	5397.8	5434.7	5455.8	5445.3	5471.7	5434.7	5535.0	5492.8	5556.1
7.5°	5593.0	5566.6	5524.4	5556.1	5561.3	5587.7	5614.1	5661.6	5645.8	5608.8	5672.2
10°	5629.9	5608.8	5672.2	5677.4	5651.0	5629.9	5656.3	5656.3	5703.8	5714.4	5714.4
12.5°	5693.3	5714.4	5709.1	5751.3	5756.6	5740.7	5783.0	5862.1	5841.0	5856.8	5819.9
15°	5936.0	5909.6	5904.3	5946.5	6015.1	5914.9	5988.7	5983.5	5962.4	5994.0	5909.6
17.5°	6147.0	6062.6	6099.5	6168.1	6141.8	6162.9	6257.8	6173.4	6194.5	6157.6	6131.2
20°	6331.7	6263.1	6268.4	6294.8	6294.8	6358.1	6395.0	6363.4	6342.3	6337.0	6347.5
22.5°	6537.5	6458.3	6463.6	6574.4	6611.4	6590.3	6563.9	6616.6	6627.2	6585.0	6632.5
25°	6690.5	6774.9	6801.3	6854.1	6774.9	6833.0	6811.9	6912.1	6975.4	6891.0	6949.0
27.5°	7091.5	7054.6	7123.2	7117.9	7181.2	7123.2	7160.1	7191.8	7218.1	7223.4	7197.0
30°	7450.3	7466.1	7397.5	7582.2	7434.5	7529.5	7592.8	7608.6	7640.3	7640.3	7561.1
32.5°	7830.2	7798.6	7909.4	7867.1	7840.8	7914.6	7846.0	8062.4	7935.7	8009.6	7919.9
35°	8257.6	8257.6	8299.8	8415.9	8257.6	8210.1	8336.7	8426.4	8426.4	8294.5	8326.2
37.5°	8737.8	8695.5	8748.3	8896.0	8774.7	8616.4	8848.6	8885.5	8859.1	8822.2	8758.9
40°	9075.4	9064.9	9170.4	9365.7	9191.5	9159.9	9202.1	9302.3	9334.0	9370.9	9286.5
42.5°	9645.3	9692.8	9998.8	9951.3	9808.9	9698.1	9687.5	10062.1	9972.4	9877.5	9830.0
45°	10489.5	10447.3	10605.6	10610.9	10426.2	10183.5	10236.3	10579.2	10732.2	10521.2	10600.3
47.5°	11159.6	11180.7	11291.5	11518.4	11091.0	10837.8	11033.0	11587.0	11539.5	11460.4	11534.3
50°	12056.6	12151.6	12499.8	12420.7	12040.8	11729.5	12156.9	12679.2	12737.3	12447.1	12394.3
52.5°	13296.6	13444.3	13634.3	13697.6	13333.5	13222.7	13249.1	13898.1	13755.6	13476.0	13296.6
55°	14383.5	14452.1	14800.4	15322.7	15296.3	14763.4	15069.5	15312.2	14731.8	14156.6	14204.1
57.5°	14847.9	14879.5	15850.4	16895.1	17517.7	17639.1	17290.8	16473.0	15090.6	13982.5	13913.9
60°	13692.3	13993.1	15164.4	17523.0	20367.0	21770.5	19454.2	16604.9	14251.6	12906.1	12805.9
62.5°	10943.3	10959.1	12700.3	16277.8	22139.9	25817.5	20282.6	15364.9	12014.4	10489.5	10088.5
64°	7793.3	7941.0	9940.8	14409.9	21770.5	27463.8	20182.3	13745.1	9903.8	7740.5	7460.9
65°	5593.0	5798.8	7730.0	12510.4	20905.2	27268.6	19881.6	12352.1	8009.6	5909.6	5624.7
67.5°	2057.8	2142.2	3033.9	6257.8	15011.4	23237.4	15755.4	6790.8	3519.4	2506.3	2253.0
70°	955.0	960.3	1123.9	2068.4	6563.9	15539.1	7518.9	2548.5	1324.4	1050.0	976.1
72.5°	701.8	717.6	786.2	955.0	1931.2	6579.7	2469.4	1044.7	775.6	685.9	670.1
75°	569.9	580.4	601.5	691.2	891.7	1762.3	1002.5	722.9	617.3	554.0	532.9
77.5°	437.9	437.9	485.4	527.6	591.0	823.1	664.8	575.1	501.3	437.9	422.1
80°	316.6	321.9	379.9	411.6	401.0	543.5	480.2	474.9	411.6	343.0	316.6
82.5°	184.7	200.5	274.4	295.5	284.9	321.9	348.2	369.3	321.9	237.4	216.3
85°	105.5	110.8	158.3	163.6	163.6	153.0	200.5	221.6	216.3	147.7	131.9
87.5°	31.7	31.7	42.2	42.2	47.5	52.8	79.1	95.0	105.5	73.9	68.6
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°	5387.2	5387.2	5387.2	5387.2	5387.2	5387.2	5387.2	5387.2	5387.2	5387.2	5387.2
2.5°	5471.7	5392.5	5397.8	5418.9	5350.3	5376.7	5455.8	5397.8	5382.0	5350.3	5334.5
5°	5445.3	5529.7	5498.0	5508.6	5492.8	5418.9	5408.3	5455.8	5482.2	5434.7	5529.7
7.5°	5629.9	5593.0	5550.8	5566.6	5529.7	5593.0	5635.2	5540.2	5587.7	5561.3	5508.6
10°	5735.5	5666.9	5698.5	5688.0	5661.6	5724.9	5682.7	5672.2	5629.9	5571.9	5656.3
12.5°	5772.4	5851.6	5904.3	5814.6	5830.4	5798.8	5772.4	5772.4	5724.9	5709.1	5724.9
15°	5936.0	6004.6	5983.5	6052.1	5962.4	5994.0	6025.7	5946.5	5988.7	5872.7	5962.4
17.5°	6236.7	6178.7	6252.6	6162.9	6194.5	6257.8	6157.6	6157.6	6189.2	6125.9	6046.8
20°	6426.7	6400.3	6373.9	6379.2	6326.4	6384.5	6352.8	6337.0	6289.5	6310.6	6352.8
22.5°	6606.1	6569.1	6579.7	6595.5	6632.5	6606.1	6590.3	6606.1	6490.0	6595.5	6447.8
25°	6827.7	6927.9	6896.3	6964.9	6859.3	6927.9	6922.7	6822.4	6885.7	6843.5	6811.9
27.5°	7197.0	7144.3	7191.8	7107.3	7181.2	7186.5	7123.2	7292.0	7218.1	7207.6	7186.5
30°	7671.9	7635.0	7603.3	7555.8	7613.9	7566.4	7619.2	7635.0	7566.4	7513.6	7413.4
32.5°	7941.0	8041.3	8078.2	7962.1	7967.4	7993.8	7946.3	7898.8	7941.0	7956.8	7941.0
35°	8320.9	8415.9	8437.0	8347.3	8299.8	8431.7	8336.7	8495.0	8357.9	8363.1	8220.7
37.5°	8764.1	8790.5	8969.9	8869.7	8827.5	8764.1	8938.3	8917.2	8948.8	8695.5	8822.2
40°	9265.4	9360.4	9460.6	9207.4	9202.1	9260.1	9249.6	9370.9	9312.9	9276.0	9186.3
42.5°	9814.1	10014.7	10030.5	9861.6	9756.1	9745.6	9798.3	10067.4	10072.7	9830.0	9724.4
45°	10542.3	10763.9	10705.9	10378.7	10262.6	10246.8	10505.4	10621.4	10721.7	10626.7	10537.0
47.5°	11449.8	11597.6	11555.4	11254.6	10880.0	10985.5	11238.8	11602.9	11497.3	11370.7	11265.2
50°	12420.7	12594.8	12505.1	12204.4	11845.6	11845.6	12156.9	12621.2	12589.5	12341.6	12246.6
52.5°	13497.1	13750.4	13956.1	13528.7	13228.0	13275.5	13766.2	13935.0	13855.9	13681.8	13602.6
55°	14299.1	14784.5	15206.7	15227.8	15243.6	15238.3	15364.9	15533.8	14969.2	14689.6	14404.6
57.5°	14103.9	15022.0	16467.7	17449.1	17739.3	17892.3	17850.1	17069.2	15734.3	14816.2	14911.2
60°	12710.9	14209.4	16541.6	19691.6	21802.2	21591.1	20820.8	17734.1	15312.2	13760.9	13565.7
62.5°	10141.3	11945.8	15301.6	20324.8	26139.4	26076.1	22044.9	16198.6	12758.4	10795.6	10674.2
64°	7640.3	9539.8	13650.1	20161.2	27659.0	27722.3	21733.6	14309.7	9983.0	7640.3	7455.6
65°	5846.3	7608.6	12030.2	19823.5	27331.9	27368.8	20868.3	12357.4	7587.5	5424.2	5223.7
67.5°	2326.9	3239.7	6526.9	15032.5	23469.5	23369.3	14890.1	5978.2	2902.0	1889.0	1852.0
70°	992.0	1234.7	2290.0	7123.2	15713.2	15423.0	6410.9	1941.7	1076.4	902.3	897.0
72.5°	680.7	754.5	981.4	2200.3	6532.2	6379.2	1825.6	902.3	733.4	675.4	675.4
75°	548.7	601.5	712.3	923.4	1730.7	1667.3	860.1	664.8	585.7	543.5	538.2
77.5°	427.4	480.2	559.3	638.4	791.5	786.2	575.1	501.3	453.8	422.1	411.6
80°	337.7	390.5	443.2	453.8	517.1	506.5	390.5	395.7	369.3	306.0	300.8
82.5°	232.2	316.6	353.5	321.9	306.0	306.0	279.7	279.7	258.5	190.0	174.1
85°	142.5	211.1	221.6	190.0	142.5	142.5	153.0	147.7	137.2	100.3	95.0
87.5°	73.9	100.3	89.7	73.9	47.5	47.5	42.2	31.7	31.7	26.4	26.4
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)