

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: P478953

Luminaire Tested: **IFLD-S-SA6C-740-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478953
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-740-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ
distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

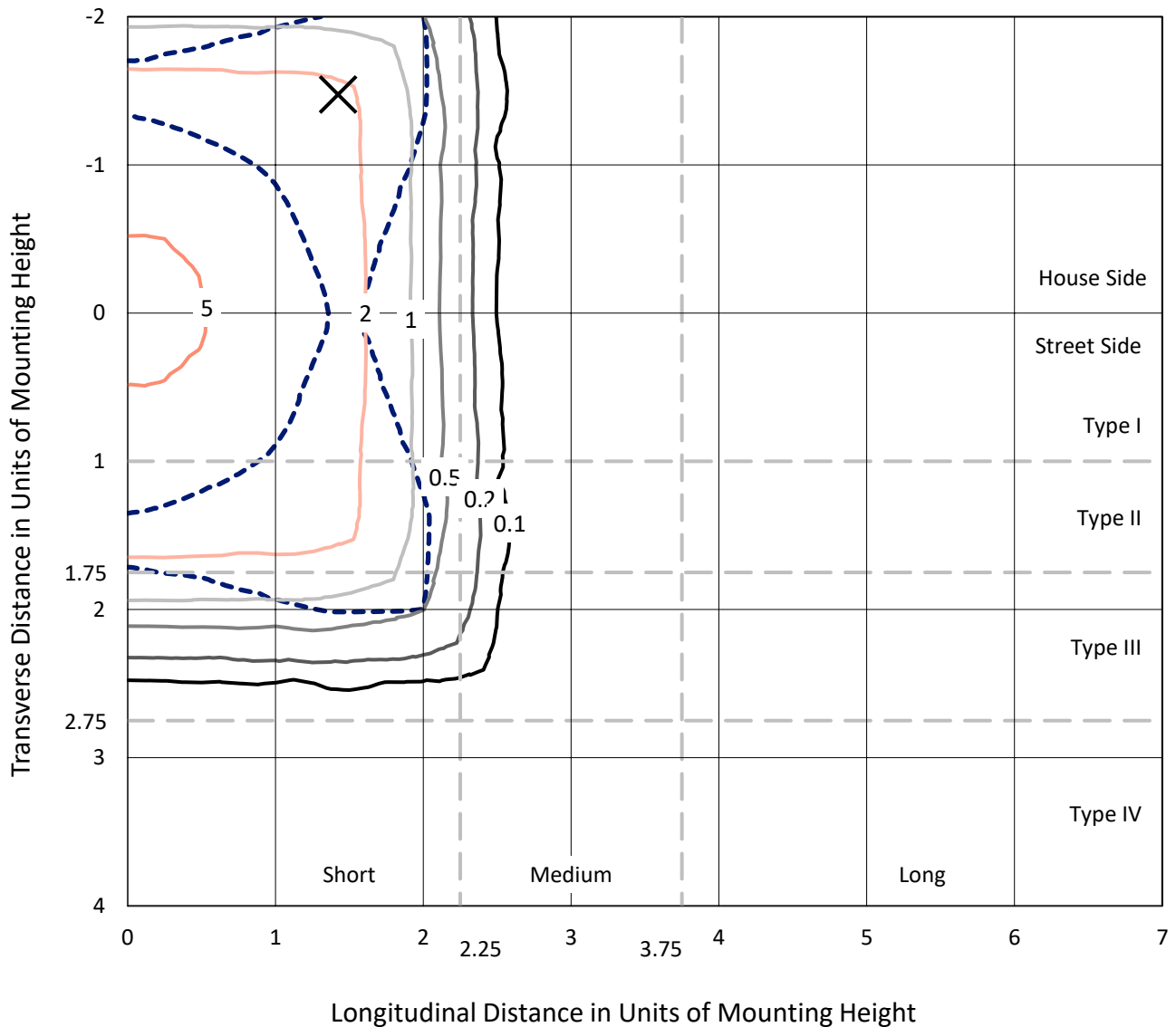
Lumens per Lamp: N/A
Luminaire Lumens: 41442.7 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 321.5
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

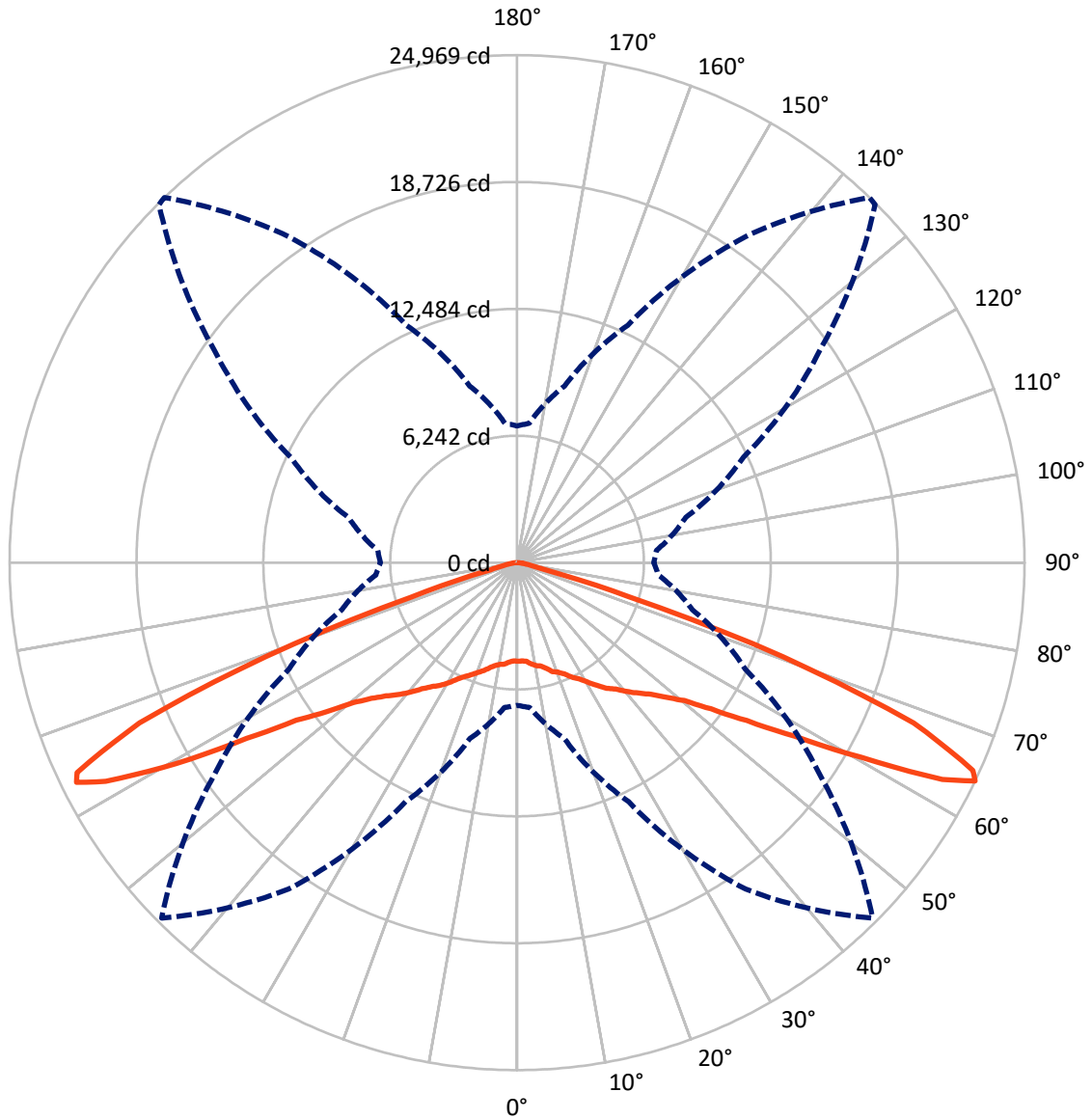
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 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	20741.1	0.0	20741.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20701.6	0.0	20701.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	41442.7	0.0	41442.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.8	1.2
10°-20°	1536.6	3.7
20°-30°	2887.9	7.0
30°-40°	4762.6	11.5
40°-50°	7448.3	18.0
50°-60°	12034.7	29.0
60°-70°	10836.5	26.1
70°-80°	1283.6	3.1
80°-90°	175.7	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°	41442.7	100.0
0°-180°	41442.7	100.0

Coefficient of Utilization



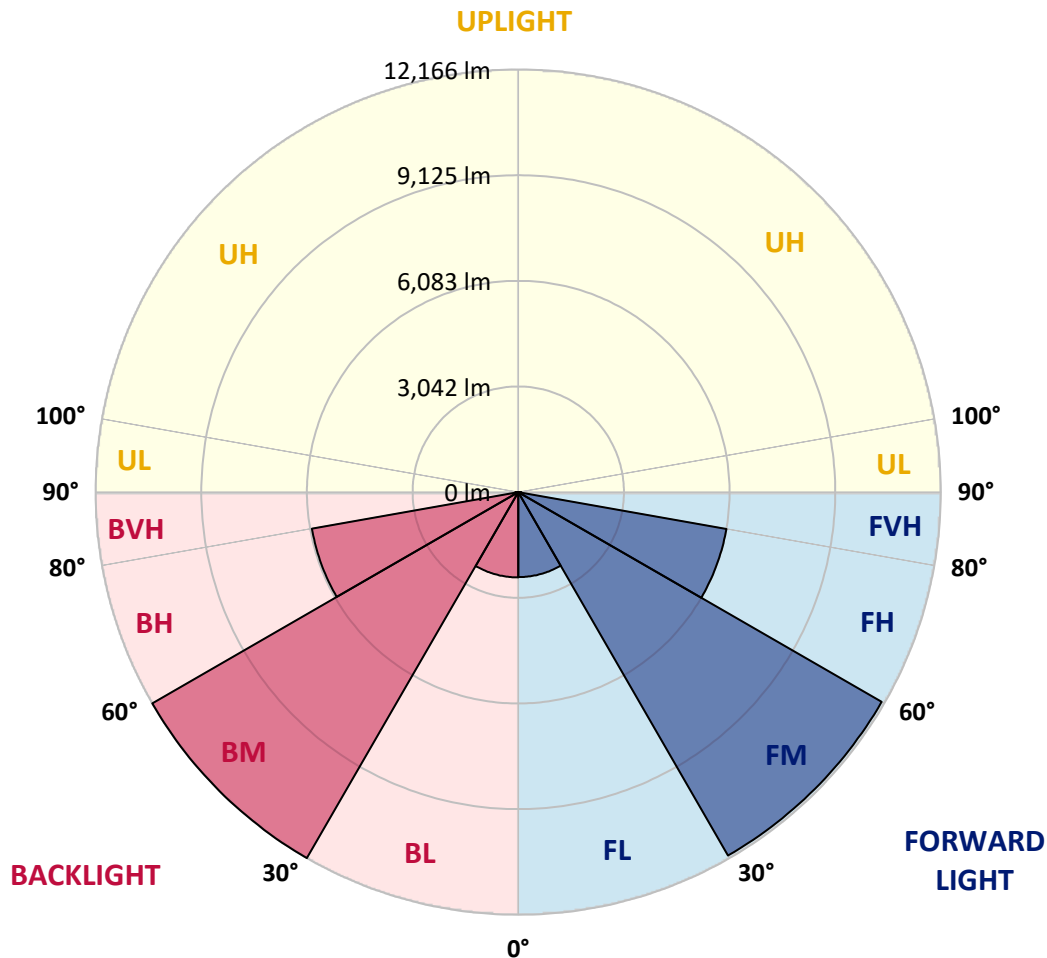
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2445.9	5.9			
FM (30°-60°)	12079.2	29.1			
FH (60°-80°)	6086.3	14.7			G3/7500
FVH (80°-90°)	90.1	0.2			G1/100
BL (0°-30°)	2455.3	5.9	B3/2500		
BM (30°-60°)	12166.4	29.4	B5		
BH (60°-80°)	6033.8	14.6	B5		G3/7500
BVH (80°-90°)	85.6	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°	4852.1	4852.1	4852.1	4852.1	4852.1	4852.1	4852.1	4852.1	4852.1	4852.1	4852.1
2.5°	4795.1	4804.6	4890.1	4856.8	4885.4	4833.1	4871.1	4951.9	4856.8	4928.1	4951.9
5°	4847.3	4861.6	4861.6	4894.9	4913.9	4904.4	4928.1	4894.9	4985.1	4947.1	5004.2
7.5°	5037.4	5013.7	4975.6	5004.2	5008.9	5032.7	5056.4	5099.2	5084.9	5051.7	5108.7
10°	5070.7	5051.7	5108.7	5113.5	5089.7	5070.7	5094.5	5094.5	5137.2	5146.7	5146.7
12.5°	5127.7	5146.7	5142.0	5180.0	5184.7	5170.5	5208.5	5279.8	5260.8	5275.0	5241.8
15°	5346.3	5322.6	5317.8	5355.8	5417.6	5327.3	5393.8	5389.1	5370.1	5398.6	5322.6
17.5°	5536.4	5460.4	5493.6	5555.4	5531.7	5550.7	5636.2	5560.2	5579.2	5545.9	5522.2
20°	5702.7	5641.0	5645.7	5669.5	5669.5	5726.5	5759.8	5731.3	5712.2	5707.5	5717.0
22.5°	5888.1	5816.8	5821.6	5921.4	5954.6	5935.6	5911.8	5959.4	5968.9	5930.9	5973.6
25°	6025.9	6101.9	6125.7	6173.2	6101.9	6154.2	6135.2	6225.5	6282.5	6206.5	6258.8
27.5°	6387.1	6353.8	6415.6	6410.8	6467.9	6415.6	6448.9	6477.4	6501.1	6505.9	6482.1
30°	6710.2	6724.5	6662.7	6829.0	6696.0	6781.5	6838.5	6852.8	6881.3	6881.3	6810.0
32.5°	7052.4	7023.9	7123.7	7085.7	7061.9	7128.4	7066.7	7261.5	7147.4	7214.0	7133.2
35°	7437.3	7437.3	7475.3	7579.9	7437.3	7394.6	7508.6	7589.4	7589.4	7470.6	7499.1
37.5°	7869.8	7831.8	7879.3	8012.4	7903.1	7760.5	7969.6	8002.9	7979.1	7945.8	7888.8
40°	8173.9	8164.4	8259.5	8435.3	8278.5	8250.0	8288.0	8378.3	8406.8	8440.1	8364.0
42.5°	8687.2	8730.0	9005.6	8962.8	8834.5	8734.7	8725.2	9062.6	8981.8	8896.3	8853.5
45°	9447.5	9409.5	9552.1	9556.9	9390.5	9171.9	9219.4	9528.3	9666.2	9476.1	9547.3
47.5°	10051.1	10070.1	10169.9	10374.2	9989.3	9761.2	9937.0	10436.0	10393.3	10322.0	10388.5
50°	10859.0	10944.5	11258.2	11186.9	10844.7	10564.3	10949.3	11419.7	11472.0	11210.6	11163.1
52.5°	11975.8	12108.8	12279.9	12336.9	12009.0	11909.2	11933.0	12517.5	12389.2	12137.3	11975.8
55°	12954.7	13016.5	13330.2	13800.6	13776.9	13296.9	13572.5	13791.1	13268.4	12750.4	12793.2
57.5°	13372.9	13401.5	14275.9	15216.8	15777.6	15886.9	15573.2	14836.6	13591.5	12593.6	12531.8
60°	12332.2	12603.1	13658.1	15782.3	18343.8	19607.9	17521.7	14955.4	12835.9	11624.1	11533.8
62.5°	9856.2	9870.5	11438.8	14660.8	19940.6	23252.9	18267.8	13838.7	10821.0	9447.5	9086.4
64°	7019.1	7152.2	8953.3	12978.5	19607.9	24735.7	18177.5	12379.7	8920.0	6971.6	6719.7
65°	5037.4	5222.8	6962.1	11267.7	18828.6	24559.8	17906.6	11125.1	7214.0	5322.6	5065.9
67.5°	1853.4	1929.4	2732.6	5636.2	13520.3	20929.1	14190.3	6116.2	3169.8	2257.3	2029.2
70°	860.2	864.9	1012.2	1862.9	5911.8	13995.5	6772.0	2295.4	1192.8	945.7	879.2
72.5°	632.1	646.3	708.1	860.2	1739.3	5926.1	2224.1	941.0	698.6	617.8	603.5
75°	513.2	522.8	541.8	622.5	803.1	1587.3	902.9	651.1	556.0	499.0	480.0
77.5°	394.4	394.4	437.2	475.2	532.3	741.4	598.8	518.0	451.5	394.4	380.2
80°	285.1	289.9	342.2	370.7	361.2	489.5	432.5	427.7	370.7	308.9	285.1
82.5°	166.3	180.6	247.1	266.1	256.6	289.9	313.7	332.7	289.9	213.9	194.8
85°	95.0	99.8	142.6	147.3	147.3	137.8	180.6	199.6	194.8	133.1	118.8
87.5°	28.5	28.5	38.0	38.0	42.8	47.5	71.3	85.5	95.0	66.5	61.8
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°	4852.1	4852.1	4852.1	4852.1	4852.1	4852.1	4852.1	4852.1	4852.1	4852.1	4852.1
2.5°	4928.1	4856.8	4861.6	4880.6	4818.8	4842.6	4913.9	4861.6	4847.3	4818.8	4804.6
5°	4904.4	4980.4	4951.9	4961.4	4947.1	4880.6	4871.1	4913.9	4937.6	4894.9	4980.4
7.5°	5070.7	5037.4	4999.4	5013.7	4980.4	5037.4	5075.4	4989.9	5032.7	5008.9	4961.4
10°	5165.7	5104.0	5132.5	5123.0	5099.2	5156.2	5118.2	5108.7	5070.7	5018.4	5094.5
12.5°	5199.0	5270.3	5317.8	5237.0	5251.3	5222.8	5199.0	5199.0	5156.2	5142.0	5156.2
15°	5346.3	5408.1	5389.1	5450.9	5370.1	5398.6	5427.1	5355.8	5393.8	5289.3	5370.1
17.5°	5617.2	5564.9	5631.5	5550.7	5579.2	5636.2	5545.9	5545.9	5574.4	5517.4	5446.1
20°	5788.3	5764.5	5740.8	5745.5	5698.0	5750.3	5721.8	5707.5	5664.7	5683.7	5721.8
22.5°	5949.9	5916.6	5926.1	5940.4	5973.6	5949.9	5935.6	5949.9	5845.3	5940.4	5807.3
25°	6149.5	6239.8	6211.2	6273.0	6178.0	6239.8	6235.0	6144.7	6201.7	6163.7	6135.2
27.5°	6482.1	6434.6	6477.4	6401.3	6467.9	6472.6	6415.6	6567.7	6501.1	6491.6	6472.6
30°	6909.8	6876.6	6848.0	6805.3	6857.6	6814.8	6862.3	6876.6	6814.8	6767.3	6677.0
32.5°	7152.2	7242.5	7275.8	7171.2	7176.0	7199.7	7156.9	7114.2	7152.2	7166.4	7152.2
35°	7494.4	7579.9	7598.9	7518.1	7475.3	7594.2	7508.6	7651.2	7527.6	7532.4	7404.1
37.5°	7893.5	7917.3	8078.9	7988.6	7950.6	7893.5	8050.4	8031.4	8059.9	7831.8	7945.8
40°	8345.0	8430.6	8520.9	8292.7	8288.0	8340.3	8330.8	8440.1	8387.8	8354.5	8273.7
42.5°	8839.3	9019.8	9034.1	8882.0	8787.0	8777.5	8825.0	9067.4	9072.1	8853.5	8758.5
45°	9495.1	9694.7	9642.4	9347.7	9243.2	9228.9	9461.8	9566.4	9656.6	9571.1	9490.3
47.5°	10312.5	10445.5	10407.5	10136.6	9799.2	9894.3	10122.4	10450.3	10355.2	10241.2	10146.1
50°	11186.9	11343.7	11262.9	10992.0	10668.9	10668.9	10949.3	11367.5	11339.0	11115.6	11030.1
52.5°	12156.4	12384.5	12569.8	12184.9	11914.0	11956.8	12398.7	12550.8	12479.5	12322.7	12251.4
55°	12878.7	13315.9	13696.1	13715.1	13729.4	13724.6	13838.7	13990.7	13482.2	13230.4	12973.7
57.5°	12702.9	13529.8	14831.9	15715.8	15977.2	16115.0	16077.0	15373.7	14171.3	13344.4	13430.0
60°	11448.3	12797.9	14898.4	17735.5	19636.5	19446.4	18752.5	15972.4	13791.1	12394.0	12218.1
62.5°	9133.9	10759.2	13781.6	18305.8	23542.8	23485.8	19855.1	14589.5	11491.0	9723.2	9613.9
64°	6881.3	8592.1	12294.2	18158.5	24911.5	24968.5	19574.7	12888.2	8991.3	6881.3	6715.0
65°	5265.5	6852.8	10835.2	17854.3	24616.8	24650.1	18795.3	11129.9	6833.8	4885.4	4704.8
67.5°	2095.8	2917.9	5878.6	13539.3	21138.2	21047.9	13411.0	5384.3	2613.8	1701.3	1668.1
70°	893.4	1112.0	2062.5	6415.6	14152.3	13890.9	5774.0	1748.8	969.5	812.6	807.9
72.5°	613.0	679.6	883.9	1981.7	5883.3	5745.5	1644.3	812.6	660.6	608.3	608.3
75°	494.2	541.8	641.6	831.7	1558.8	1501.7	774.6	598.8	527.5	489.5	484.7
77.5°	384.9	432.5	503.7	575.0	712.8	708.1	518.0	451.5	408.7	380.2	370.7
80°	304.1	351.7	399.2	408.7	465.7	456.2	351.7	356.4	332.7	275.6	270.9
82.5°	209.1	285.1	318.4	289.9	275.6	275.6	251.9	251.9	232.9	171.1	156.8
85°	128.3	190.1	199.6	171.1	128.3	128.3	137.8	133.1	123.6	90.3	85.5
87.5°	66.5	90.3	80.8	66.5	42.8	42.8	38.0	28.5	28.5	23.8	23.8
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)