

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: P481216

Luminaire Tested: **IFLD-S-SA6D-730-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481216
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-730-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

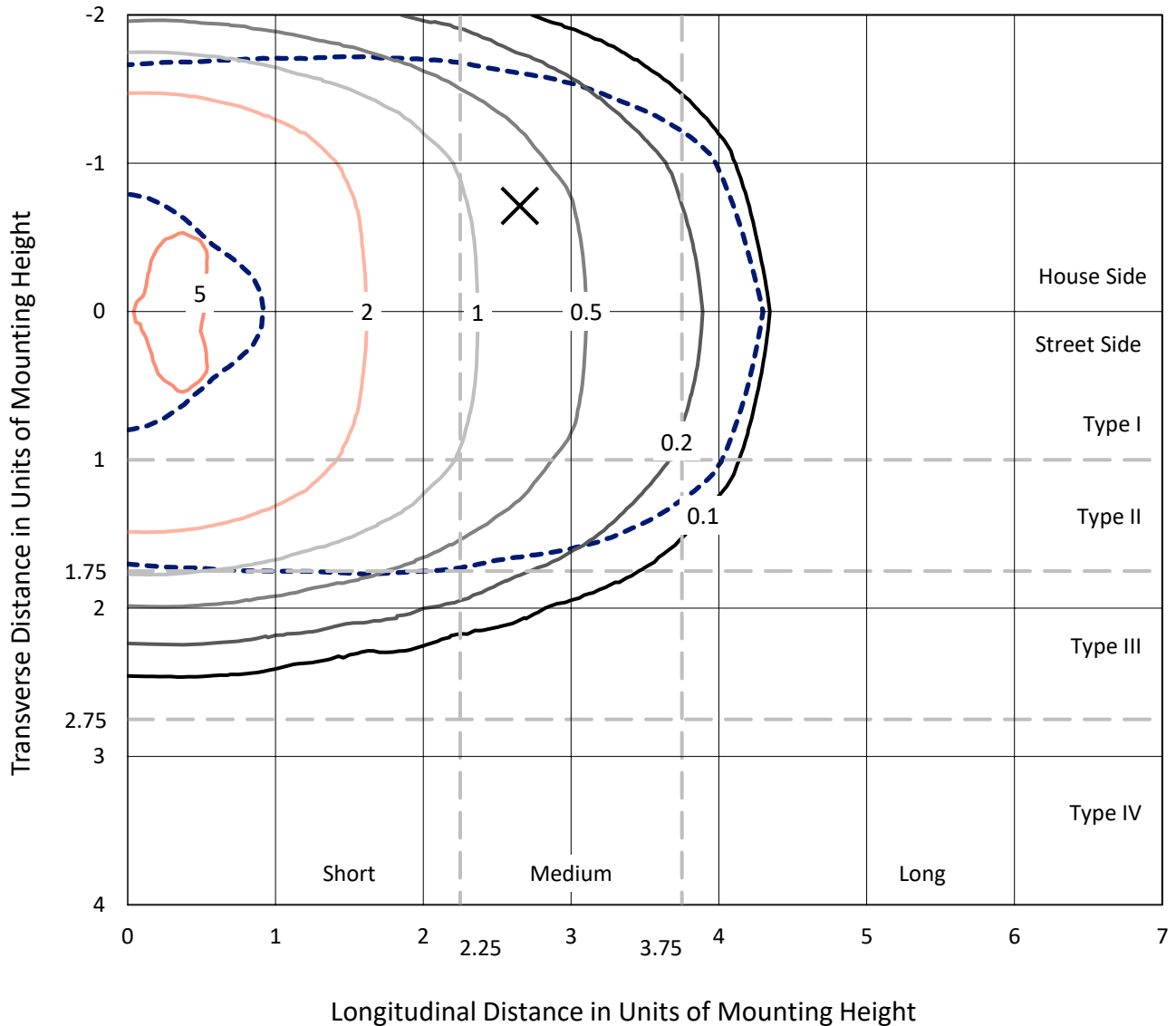
Lumens per Lamp: N/A
Luminaire Lumens: 42884.5 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 368.2
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

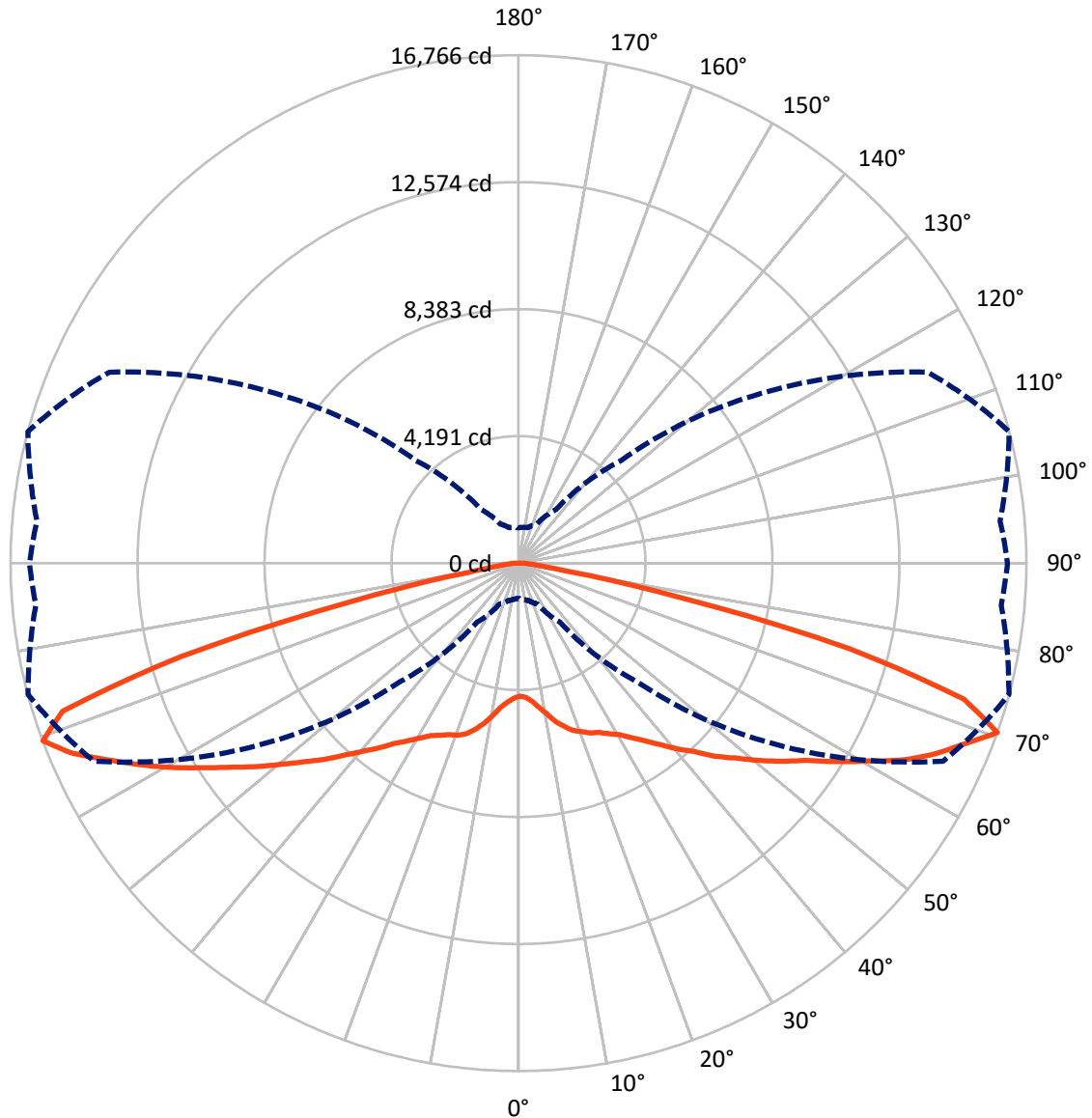
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21289.7	0.0	21289.7
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	21594.8	0.0	21594.8
	% Fixture	50.4	0.0	50.4
Total	Lumens	42884.5	0.0	42884.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.1	1.0
10°-20°	1488.2	3.5
20°-30°	2881.7	6.7
30°-40°	4874.2	11.4
40°-50°	7775.8	18.1
50°-60°	10643.4	24.8
60°-70°	10032.1	23.4
70°-80°	4419.4	10.3
80°-90°	332.5	0.8
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°	42884.5	100.0
0°-180°	42884.5	100.0

Coefficient of Utilization

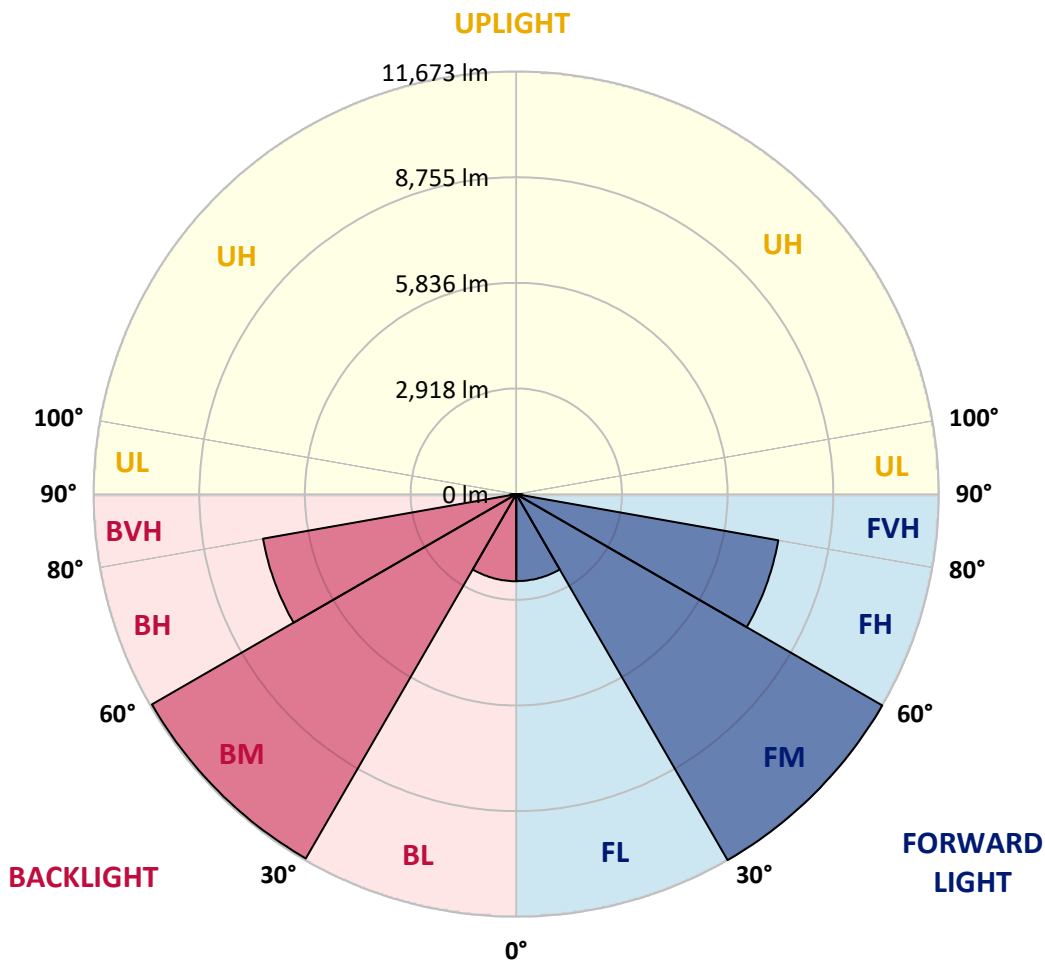


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2402.2	5.6			
FM (30°-60°)	11672.8	27.2			
FH (60°-80°)	7349.9	17.1			G3/7500
FVH (80°-90°)	169.9	0.4			G2/225
BL (0°-30°)	2404.8	5.6	B3/2500		
BM (30°-60°)	11620.6	27.1	B5		
BH (60°-80°)	7101.6	16.6	B5		G5
BVH (80°-90°)	162.7	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4391.3	4391.3	4391.3	4391.3	4391.3	4391.3	4391.3	4391.3	4391.3	4391.3	4391.3
2.5°	4363.6	4363.6	4359.0	4382.1	4405.2	4414.4	4432.9	4437.6	4465.3	4442.2	4488.4
5°	4349.7	4345.1	4382.1	4437.6	4437.6	4497.6	4534.6	4585.5	4599.3	4627.1	4636.3
7.5°	4446.8	4437.6	4419.1	4479.2	4530.0	4622.5	4673.3	4761.1	4793.5	4830.5	4872.1
10°	4506.9	4506.9	4488.4	4594.7	4640.9	4765.7	4876.7	4964.5	5089.3	5130.9	5135.5
12.5°	4516.1	4530.0	4585.5	4724.1	4853.6	5015.4	5098.6	5265.0	5389.8	5468.4	5496.1
15°	4654.8	4627.1	4687.2	4876.7	5066.2	5209.5	5357.4	5477.6	5657.9	5759.6	5824.3
17.5°	4779.6	4751.9	4862.8	5089.3	5283.5	5505.3	5634.8	5764.2	5893.6	5986.1	5990.7
20°	4978.4	5001.5	5098.6	5343.6	5597.8	5791.9	5939.8	5963.0	6027.7	6161.7	6138.6
22.5°	5223.4	5204.9	5408.3	5676.4	5953.7	6115.5	6198.7	6138.6	6106.3	6249.6	6281.9
25°	5468.4	5523.8	5708.7	5958.3	6291.2	6508.4	6531.5	6365.1	6244.9	6295.8	6281.9
27.5°	5842.8	5852.0	6046.2	6342.0	6679.4	6869.0	6855.1	6619.3	6388.2	6392.8	6402.1
30°	6323.5	6277.3	6489.9	6758.0	7090.8	7261.9	7285.0	6947.5	6637.8	6545.4	6568.5
32.5°	6785.8	6841.2	7026.1	7331.2	7576.2	7673.3	7622.4	7322.0	6919.8	6795.0	6808.9
35°	7377.4	7368.2	7622.4	7881.3	8066.2	8084.7	8043.1	7603.9	7224.9	7063.1	6998.4
37.5°	8010.7	8093.9	8260.3	8473.0	8667.1	8676.3	8449.8	8098.5	7631.7	7363.6	7442.1
40°	8717.9	8810.4	8930.6	9240.3	9383.6	9235.7	9004.5	8528.4	8043.1	7807.3	7844.3
42.5°	9342.0	9383.6	9628.6	9993.7	10063.1	9998.4	9656.3	9078.5	8514.6	8255.7	8274.2
45°	9915.2	9970.6	10289.6	10617.8	10779.6	10668.6	10271.1	9721.0	9064.6	8842.7	8754.9
47.5°	10442.1	10553.1	10862.8	11200.2	11449.8	11459.1	10969.1	10303.4	9610.1	9318.9	9314.2
50°	10798.0	10959.8	11264.9	11648.6	12013.7	12157.0	11667.1	10950.6	10206.4	9896.7	9864.3
52.5°	10992.2	11158.6	11463.7	12060.0	12466.7	12688.6	12457.5	11556.1	10904.4	10580.8	10529.9
55°	10756.4	10867.4	11366.6	12203.3	12831.9	13197.1	13044.6	12392.8	11597.7	11334.2	11380.5
57.5°	9753.4	9984.5	10599.3	11644.0	12822.7	13719.4	13705.6	13183.2	12397.4	12147.8	12157.0
60°	8029.2	8223.3	8981.4	10442.1	12305.0	13932.1	14422.0	13950.6	13294.2	13003.0	12993.7
62.5°	5667.1	5912.1	6790.4	8385.1	10779.6	13636.2	15244.8	14916.6	14172.4	13959.8	14038.4
65°	3171.0	3318.9	4132.5	5574.7	8214.1	12009.1	15392.8	15919.7	15064.6	14741.0	14754.9
67.5°	1696.4	1751.9	2130.9	2926.0	5024.6	9258.8	13899.7	16497.5	16030.7	15471.3	15383.5
70°	1164.9	1183.3	1280.4	1497.7	2375.9	5537.7	10483.7	15466.7	16756.4	15993.7	16141.6
72.5°	984.6	975.3	998.4	1021.6	1243.4	2477.6	6152.5	11902.8	15818.0	15531.4	15476.0
75°	855.2	850.5	859.8	836.7	864.4	1090.9	2722.6	7419.0	11579.2	12924.4	13132.4
77.5°	707.2	711.9	716.5	693.4	684.1	721.1	1095.5	3258.8	5699.5	6291.2	6785.8
80°	536.2	545.4	582.4	559.3	522.3	527.0	647.1	1090.9	1636.3	1483.8	1530.0
82.5°	365.2	369.8	448.4	420.6	392.9	355.9	416.0	563.9	637.9	485.4	425.3
85°	258.9	254.2	291.2	268.1	249.6	180.3	249.6	318.9	383.7	240.4	217.3
87.5°	60.1	60.1	120.2	97.1	92.4	74.0	97.1	124.8	166.4	106.3	97.1
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°	145°	155°	165°	175°	180°
0°	4391.3	4391.3	4391.3	4391.3	4391.3	4391.3	4391.3	4391.3	4391.3	4391.3
2.5°	4474.5	4432.9	4432.9	4423.7	4386.7	4377.5	4345.1	4354.3	4331.2	4308.1
5°	4631.7	4576.2	4576.2	4497.6	4423.7	4414.4	4377.5	4377.5	4340.5	4349.7
7.5°	4849.0	4798.1	4714.9	4645.6	4543.9	4502.3	4432.9	4423.7	4414.4	4396.0
10°	5107.8	5043.1	4959.9	4816.6	4733.4	4654.8	4585.5	4488.4	4465.3	4469.9
12.5°	5459.1	5357.4	5177.1	5052.3	4946.0	4844.3	4742.6	4599.3	4567.0	4580.8
15°	5708.7	5579.3	5399.0	5352.8	5209.5	5084.7	4918.3	4756.5	4701.0	4687.2
17.5°	5912.1	5805.8	5699.5	5630.1	5514.6	5362.0	5130.9	4946.0	4821.2	4807.3
20°	6078.5	5939.8	5916.7	5958.3	5815.0	5713.3	5431.4	5204.9	5038.5	4969.1
22.5°	6180.2	6092.4	6157.1	6194.1	6184.8	6013.8	5722.6	5459.1	5251.1	5186.4
25°	6291.2	6189.5	6420.6	6545.4	6577.7	6295.8	6069.3	5722.6	5519.2	5477.6
27.5°	6346.6	6383.6	6651.7	6915.2	6892.1	6674.8	6369.7	6060.0	5898.2	5824.3
30°	6508.4	6568.5	6975.3	7271.1	7275.7	7063.1	6832.0	6480.7	6300.4	6268.0
32.5°	6799.6	6873.6	7308.1	7622.4	7677.9	7516.1	7285.0	7067.7	6882.8	6808.9
35°	7021.5	7211.0	7701.0	7987.6	8135.5	8038.4	7909.0	7682.5	7488.4	7423.7
37.5°	7340.5	7603.9	8075.4	8463.7	8630.1	8620.9	8523.8	8278.8	8117.0	8061.6
40°	7798.1	8061.6	8491.4	9004.5	9314.2	9300.4	9244.9	9055.4	8815.0	8787.3
42.5°	8283.4	8500.7	9060.0	9647.1	10090.8	10044.6	9896.7	9674.8	9508.4	9471.4
45°	8754.9	9092.4	9610.1	10363.5	10696.3	10811.9	10636.3	10257.2	10067.7	10044.6
47.5°	9346.6	9614.7	10261.8	10936.7	11431.3	11449.8	11149.3	10798.0	10451.4	10525.3
50°	9873.6	10229.5	10885.9	11625.5	12217.1	12004.5	11620.8	11181.7	10932.1	10835.0
52.5°	10437.5	10872.0	11634.7	12388.2	12716.4	12503.7	11879.7	11389.7	11010.7	10969.1
55°	11260.3	11486.8	12485.2	13063.0	13169.4	12721.0	11801.1	11107.7	10617.8	10497.6
57.5°	12097.0	12360.4	13234.1	13733.3	13622.4	12600.8	11292.6	10220.2	9577.7	9406.7
60°	12942.9	13266.4	14001.4	14459.0	13885.8	11773.4	9855.1	8473.0	7724.1	7571.6
62.5°	13885.8	14306.5	14962.9	15124.7	13104.6	10137.0	7821.2	6115.5	5357.4	5103.2
65°	14722.5	15152.4	15961.3	14986.0	11445.2	7562.3	5057.0	3494.6	2935.3	2731.9
67.5°	15411.2	15896.6	16294.1	13261.8	8380.5	4428.3	2634.8	1839.7	1631.7	1557.8
70°	15956.7	16765.6	14907.4	9748.7	4788.9	2158.7	1423.7	1211.1	1183.3	1164.9
72.5°	15480.6	15374.3	11130.9	5625.5	2098.6	1188.0	1030.8	998.4	993.8	998.4
75°	12660.9	11292.6	6656.3	2445.3	1053.9	859.8	855.2	841.3	864.4	864.4
77.5°	6143.2	5371.3	2782.7	1049.3	693.4	674.9	698.0	698.0	698.0	698.0
80°	1423.7	1576.3	993.8	637.9	503.8	503.8	554.7	559.3	536.2	527.0
82.5°	485.4	647.1	545.4	402.2	332.8	374.4	420.6	429.9	355.9	360.6
85°	240.4	379.0	295.8	231.1	171.0	231.1	272.7	286.6	245.0	235.7
87.5°	110.9	166.4	110.9	78.6	60.1	83.2	78.6	64.7	37.0	37.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)