

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: P481295

Luminaire Tested: **IFLD-S-SA6E-740-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481295
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-740-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

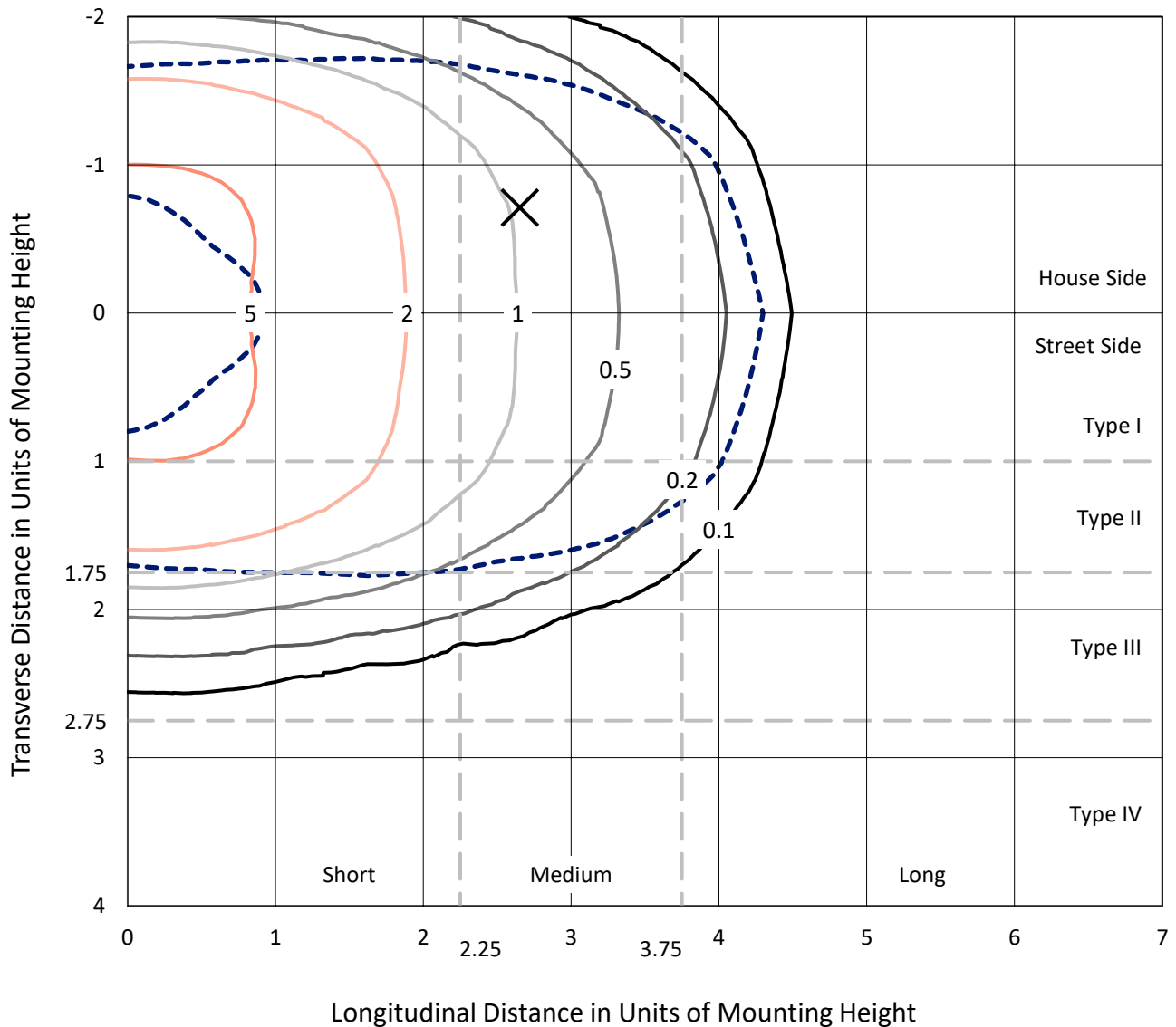
Lumens per Lamp: N/A
Luminaire Lumens: 54501.8 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 464.2
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

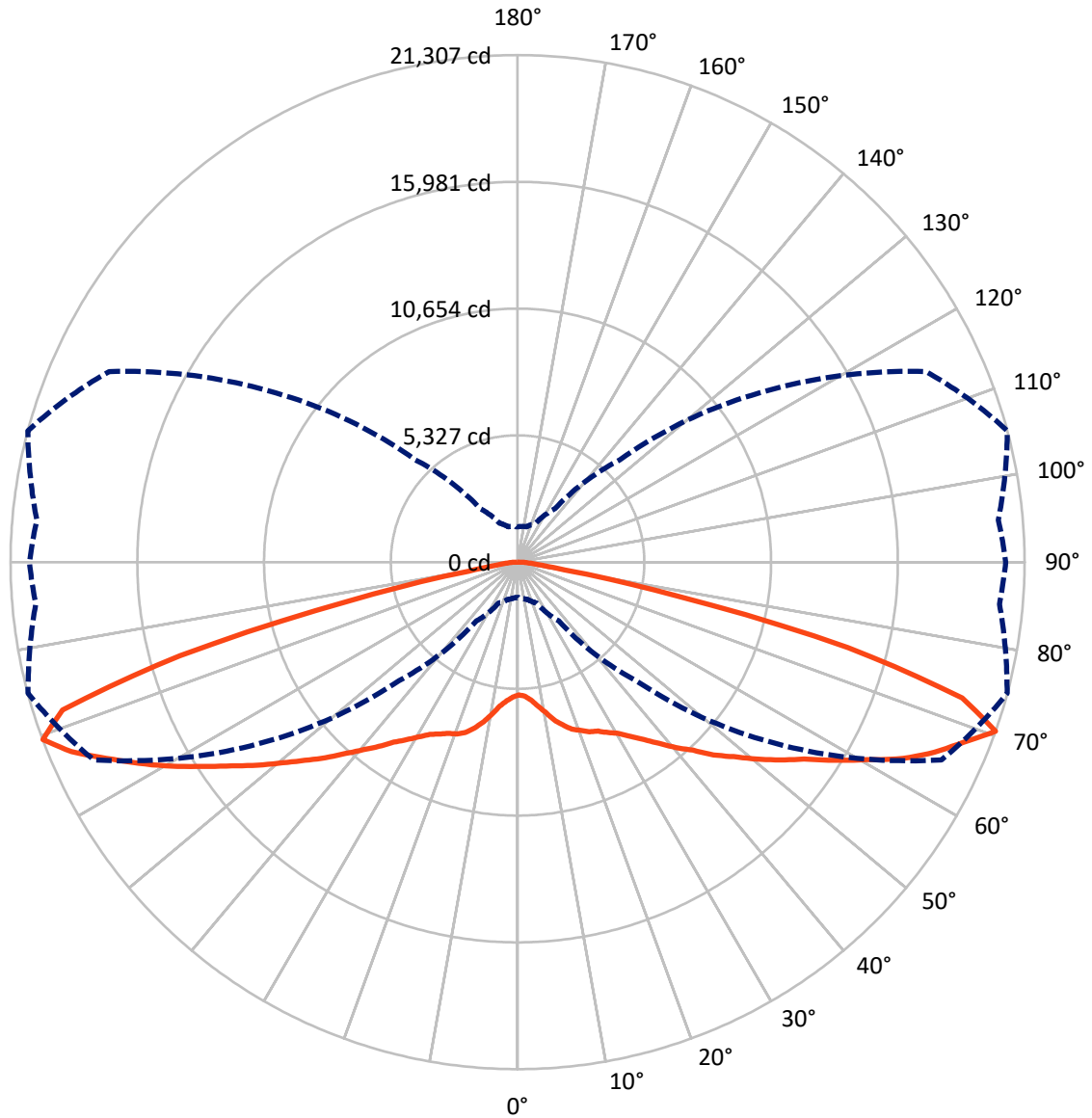
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.3 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	27057.0	0.0	27057.0
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	27444.8	0.0	27444.8
	% Fixture	50.4	0.0	50.4
Total	Lumens	54501.8	0.0	54501.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.5	1.0
10°-20°	1891.4	3.5
20°-30°	3662.4	6.7
30°-40°	6194.6	11.4
40°-50°	9882.3	18.1
50°-60°	13526.7	24.8
60°-70°	12749.8	23.4
70°-80°	5616.6	10.3
80°-90°	422.6	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°	54501.8	100.0
0°-180°	54501.8	100.0

Coefficient of Utilization

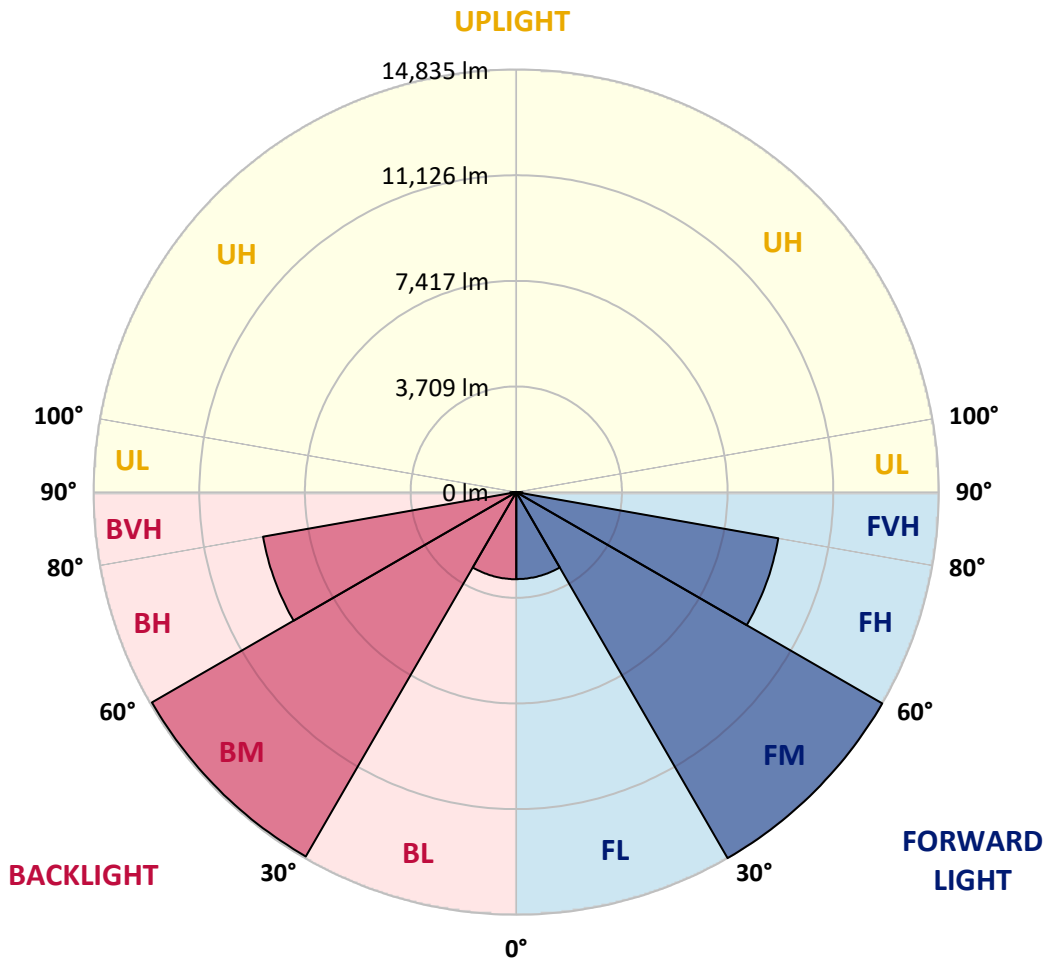


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3053.0	5.6			
FM (30°-60°)	14834.9	27.2			
FH (60°-80°)	9341.0	17.1			G4/12000
FVH (80°-90°)	215.9	0.4			G2/225
BL (0°-30°)	3056.3	5.6	B4/5000		
BM (30°-60°)	14768.6	27.1	B5		
BH (60°-80°)	9025.4	16.6	B5		G5
BVH (80°-90°)	206.7	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°	5580.9	5580.9	5580.9	5580.9	5580.9	5580.9	5580.9	5580.9	5580.9	5580.9	5580.9
2.5°	5545.7	5545.7	5539.8	5569.2	5598.6	5610.3	5633.8	5639.7	5674.9	5645.6	5704.3
5°	5528.1	5522.2	5569.2	5639.7	5639.7	5716.0	5763.0	5827.7	5845.3	5880.5	5892.3
7.5°	5651.4	5639.7	5616.2	5692.6	5757.2	5874.7	5939.3	6050.9	6092.0	6139.0	6191.9
10°	5727.8	5727.8	5704.3	5839.4	5898.2	6056.8	6197.8	6309.4	6468.0	6520.9	6526.8
12.5°	5739.5	5757.2	5827.7	6003.9	6168.4	6374.0	6479.8	6691.2	6849.9	6949.7	6985.0
15°	5915.8	5880.5	5956.9	6197.8	6438.6	6620.7	6808.7	6961.5	7190.6	7319.8	7402.1
17.5°	6074.4	6039.2	6180.1	6468.0	6714.7	6996.7	7161.2	7325.7	7490.2	7607.7	7613.6
20°	6327.0	6356.4	6479.8	6791.1	7114.2	7361.0	7548.9	7578.3	7660.6	7830.9	7801.6
22.5°	6638.4	6614.9	6873.4	7214.1	7566.6	7772.2	7877.9	7801.6	7760.4	7942.5	7983.7
25°	6949.7	7020.2	7255.2	7572.4	7995.4	8271.5	8300.9	8089.4	7936.7	8001.3	7983.7
27.5°	7425.6	7437.3	7684.1	8060.0	8488.9	8729.8	8712.1	8412.5	8118.8	8124.7	8136.4
30°	8036.5	7977.8	8248.0	8588.8	9011.7	9229.1	9258.5	8829.6	8436.0	8318.5	8347.9
32.5°	8624.0	8694.5	8929.5	9317.2	9628.6	9751.9	9687.3	9305.5	8794.4	8635.8	8653.4
35°	9376.0	9364.2	9687.3	10016.3	10251.3	10274.8	10221.9	9663.8	9182.1	8976.5	8894.2
37.5°	10180.8	10286.5	10498.0	10768.3	11015.0	11026.7	10738.9	10292.4	9699.1	9358.3	9458.2
40°	11079.6	11197.1	11349.9	11743.5	11925.6	11737.6	11443.8	10838.8	10221.9	9922.3	9969.3
42.5°	11872.7	11925.6	12236.9	12701.0	12789.1	12706.9	12272.2	11537.8	10821.1	10492.2	10515.6
45°	12601.2	12671.7	13077.0	13494.1	13699.7	13558.7	13053.5	12354.4	11520.2	11238.2	11126.6
47.5°	13270.9	13411.9	13805.5	14234.3	14551.5	14563.3	13940.6	13094.6	12213.4	11843.3	11837.4
50°	13723.2	13928.8	14316.6	14804.2	15268.3	15450.4	14827.7	13917.1	12971.3	12577.7	12536.5
52.5°	13970.0	14181.4	14569.2	15327.0	15844.0	16126.0	15832.2	14686.7	13858.3	13447.1	13382.5
55°	13670.3	13811.3	14445.8	15509.1	16308.1	16772.2	16578.3	15750.0	14739.5	14404.7	14463.4
57.5°	12395.5	12689.3	13470.6	14798.3	16296.3	17436.0	17418.4	16754.5	15755.9	15438.6	15450.4
60°	10204.3	10451.0	11414.5	13270.9	15638.4	17706.2	18329.0	17729.7	16895.5	16525.4	16513.7
62.5°	7202.3	7513.7	8629.9	10656.6	13699.7	17330.3	19374.6	18957.5	18011.7	17741.5	17841.4
65°	4030.0	4218.0	5252.0	7084.8	10439.3	15262.4	19562.6	20232.3	19145.5	18734.3	18751.9
67.5°	2156.0	2226.5	2708.2	3718.7	6385.8	11767.0	17665.1	20966.7	20373.3	19662.5	19550.9
70°	1480.4	1503.9	1627.3	1903.4	3019.6	7037.8	13323.7	19656.6	21295.7	20326.3	20514.3
72.5°	1251.3	1239.6	1268.9	1298.3	1580.3	3148.8	7819.2	15127.3	20103.1	19738.9	19668.4
75°	1086.8	1080.9	1092.7	1063.3	1098.6	1386.4	3460.2	9428.8	14716.0	16425.6	16689.9
77.5°	898.8	904.7	910.6	881.2	869.5	916.4	1392.3	4141.6	7243.5	7995.4	8624.0
80°	681.5	693.2	740.2	710.8	663.8	669.7	822.5	1386.4	2079.6	1885.8	1944.5
82.5°	464.1	470.0	569.8	534.6	499.3	452.3	528.7	716.7	810.7	616.8	540.5
85°	329.0	323.1	370.1	340.7	317.2	229.1	317.2	405.4	487.6	305.5	276.1
87.5°	76.4	76.4	152.7	123.4	117.5	94.0	123.4	158.6	211.5	135.1	123.4
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°	5580.9	5580.9	5580.9	5580.9	5580.9	5580.9	5580.9	5580.9	5580.9	5580.9
2.5°	5686.7	5633.8	5633.8	5622.1	5575.1	5563.3	5522.2	5533.9	5504.6	5475.2
5°	5886.4	5815.9	5815.9	5716.0	5622.1	5610.3	5563.3	5563.3	5516.3	5528.1
7.5°	6162.5	6097.9	5992.2	5904.0	5774.8	5721.9	5633.8	5622.1	5610.3	5586.8
10°	6491.5	6409.3	6303.5	6121.4	6015.7	5915.8	5827.7	5704.3	5674.9	5680.8
12.5°	6938.0	6808.7	6579.6	6421.0	6285.9	6156.6	6027.4	5845.3	5804.2	5821.8
15°	7255.2	7090.7	6861.6	6802.9	6620.7	6462.1	6250.6	6045.0	5974.5	5956.9
17.5°	7513.7	7378.6	7243.5	7155.3	7008.5	6814.6	6520.9	6285.9	6127.3	6109.7
20°	7725.2	7548.9	7519.6	7572.4	7390.3	7261.1	6902.7	6614.9	6403.4	6315.3
22.5°	7854.4	7742.8	7825.1	7872.1	7860.3	7642.9	7272.8	6938.0	6673.6	6591.4
25°	7995.4	7866.2	8159.9	8318.5	8359.6	8001.3	7713.4	7272.8	7014.3	6961.5
27.5°	8065.9	8112.9	8453.6	8788.5	8759.1	8483.0	8095.3	7701.7	7496.1	7402.1
30°	8271.5	8347.9	8864.9	9240.8	9246.7	8976.5	8682.8	8236.3	8007.2	7966.0
32.5°	8641.6	8735.6	9287.8	9687.3	9757.8	9552.2	9258.5	8982.4	8747.4	8653.4
35°	8923.6	9164.5	9787.2	10151.4	10339.4	10216.0	10051.6	9763.7	9517.0	9434.7
37.5°	9329.0	9663.8	10263.0	10756.5	10968.0	10956.2	10832.9	10521.5	10315.9	10245.4
40°	9910.6	10245.4	10791.8	11443.8	11837.4	11819.8	11749.3	11508.5	11203.0	11167.7
42.5°	10527.4	10803.5	11514.3	12260.4	12824.4	12765.6	12577.7	12295.7	12084.2	12037.2
45°	11126.6	11555.5	12213.4	13171.0	13594.0	13740.8	13517.6	13035.9	12795.0	12765.6
47.5°	11878.6	12219.3	13041.8	13899.5	14528.0	14551.5	14169.7	13723.2	13282.6	13376.6
50°	12548.3	13000.6	13834.8	14774.8	15526.7	15256.5	14768.9	14210.8	13893.6	13770.2
52.5°	13265.0	13817.2	14786.5	15744.1	16161.2	15891.0	15097.9	14475.2	13993.5	13940.6
55°	14310.7	14598.5	15867.5	16601.8	16736.9	16167.1	14998.0	14116.8	13494.1	13341.4
57.5°	15374.0	15708.9	16819.2	17453.6	17312.6	16014.3	14351.8	12988.9	12172.3	11954.9
60°	16449.1	16860.3	17794.4	18376.0	17647.5	14962.8	12524.8	10768.3	9816.6	9622.7
62.5°	17647.5	18182.1	19016.3	19221.9	16654.7	12883.1	9939.9	7772.2	6808.7	6485.6
65°	18710.8	19257.2	20285.2	19045.7	14545.7	9611.0	6426.9	4441.2	3730.4	3471.9
67.5°	19586.1	20203.0	20708.2	16854.4	10650.8	5627.9	3348.6	2338.1	2073.8	1979.8
70°	20279.3	21307.4	18945.8	12389.7	6086.2	2743.5	1809.4	1539.2	1503.9	1480.4
72.5°	19674.3	19539.1	14146.2	7149.5	2667.1	1509.8	1310.1	1268.9	1263.1	1268.9
75°	16090.7	14351.8	8459.5	3107.7	1339.4	1092.7	1086.8	1069.2	1098.6	1098.6
77.5°	7807.4	6826.4	3536.5	1333.5	881.2	857.7	887.1	887.1	887.1	887.1
80°	1809.4	2003.3	1263.1	810.7	640.3	640.3	705.0	710.8	681.5	669.7
82.5°	616.8	822.5	693.2	511.1	423.0	475.8	534.6	546.3	452.3	458.2
85°	305.5	481.7	376.0	293.7	217.4	293.7	346.6	364.2	311.4	299.6
87.5°	141.0	211.5	141.0	99.9	76.4	105.7	99.9	82.2	47.0	47.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)