

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: P478994

Luminaire Tested: **IFLD-S-SA6E-750-U-5NQ**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P478994
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-750-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

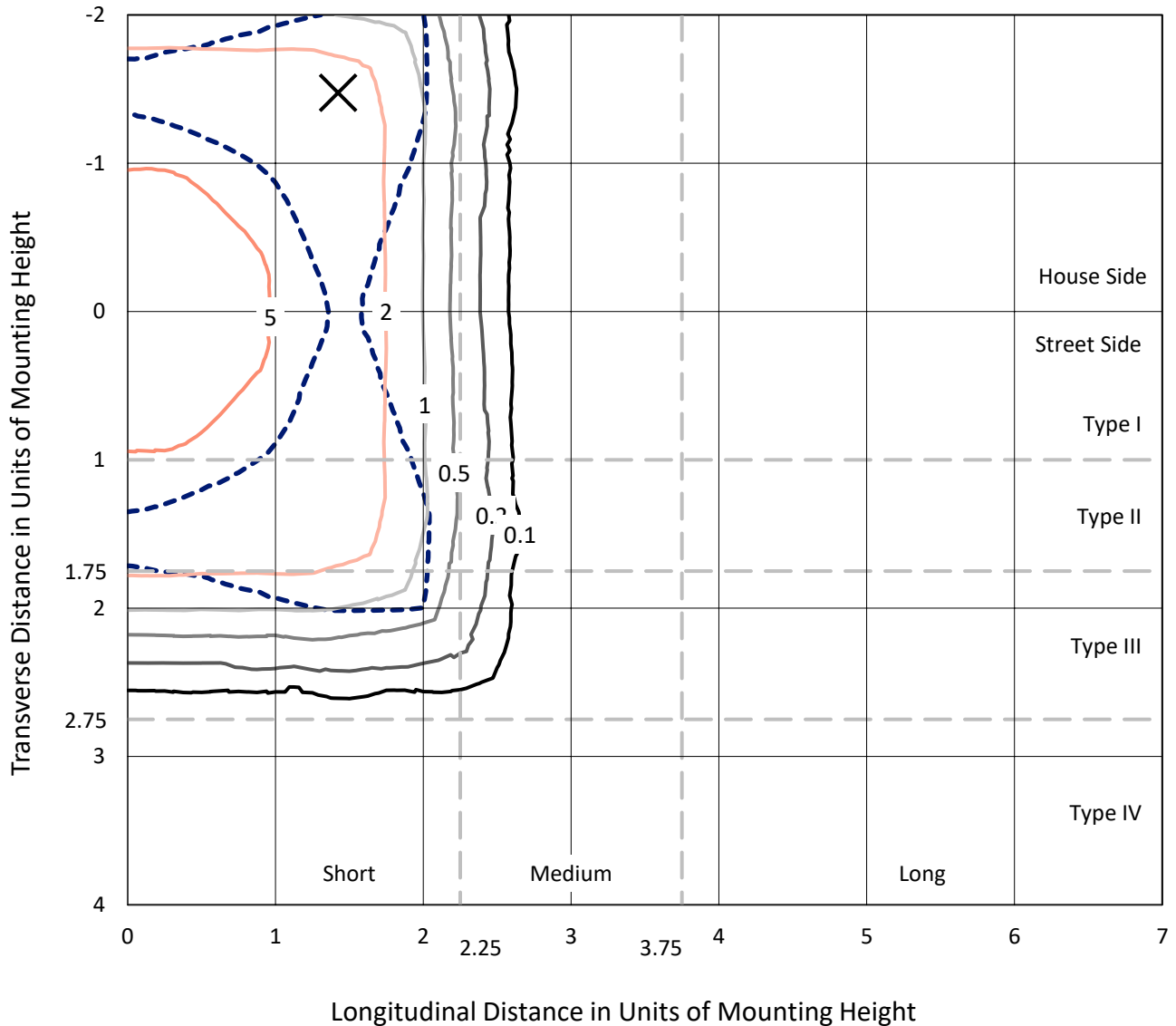
Lumens per Lamp: N/A
Luminaire Lumens: 53982.5 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

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

REPORT NUMBER: P478994
 CATALOG NUMBER: IFLD-S-SA6E-750-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

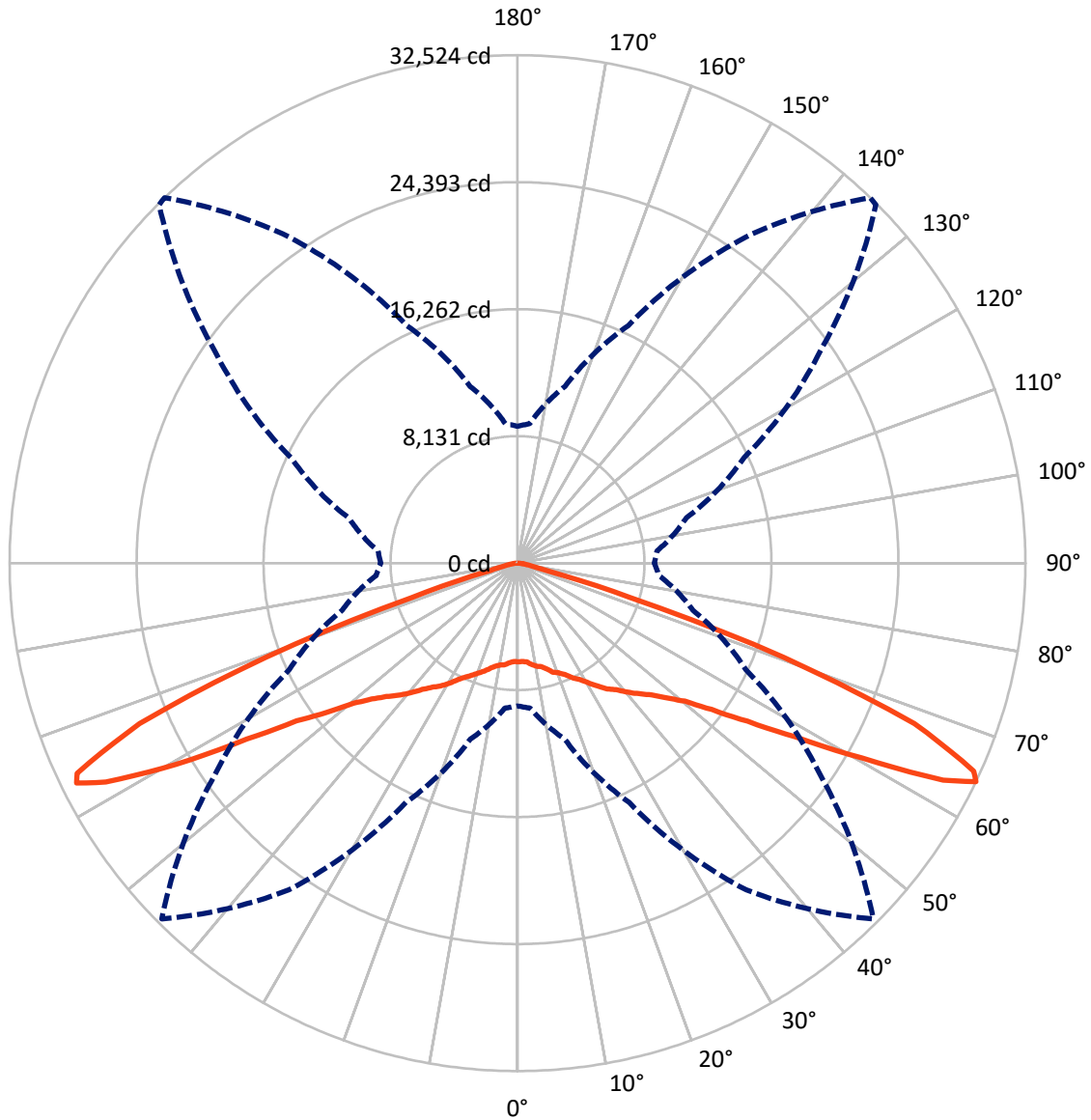
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 fc
 Type V - Short - N/A

REPORT NUMBER: P478994
CATALOG NUMBER: IFLD-S-SA6E-750-U-5NQ

Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P478994

CATALOG NUMBER: IFLD-S-SA6E-750-U-5NQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	27017.0	0.0	27017.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	26965.5	0.0	26965.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	53982.5	0.0	53982.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.0	1.2
10°-20°	2001.5	3.7
20°-30°	3761.7	7.0
30°-40°	6203.7	11.5
40°-50°	9702.1	18.0
50°-60°	15676.2	29.0
60°-70°	14115.4	26.1
70°-80°	1672.0	3.1
80°-90°	228.9	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°	53982.5	100.0
0°-180°	53982.5	100.0

Coefficient of Utilization



REPORT NUMBER: P478994

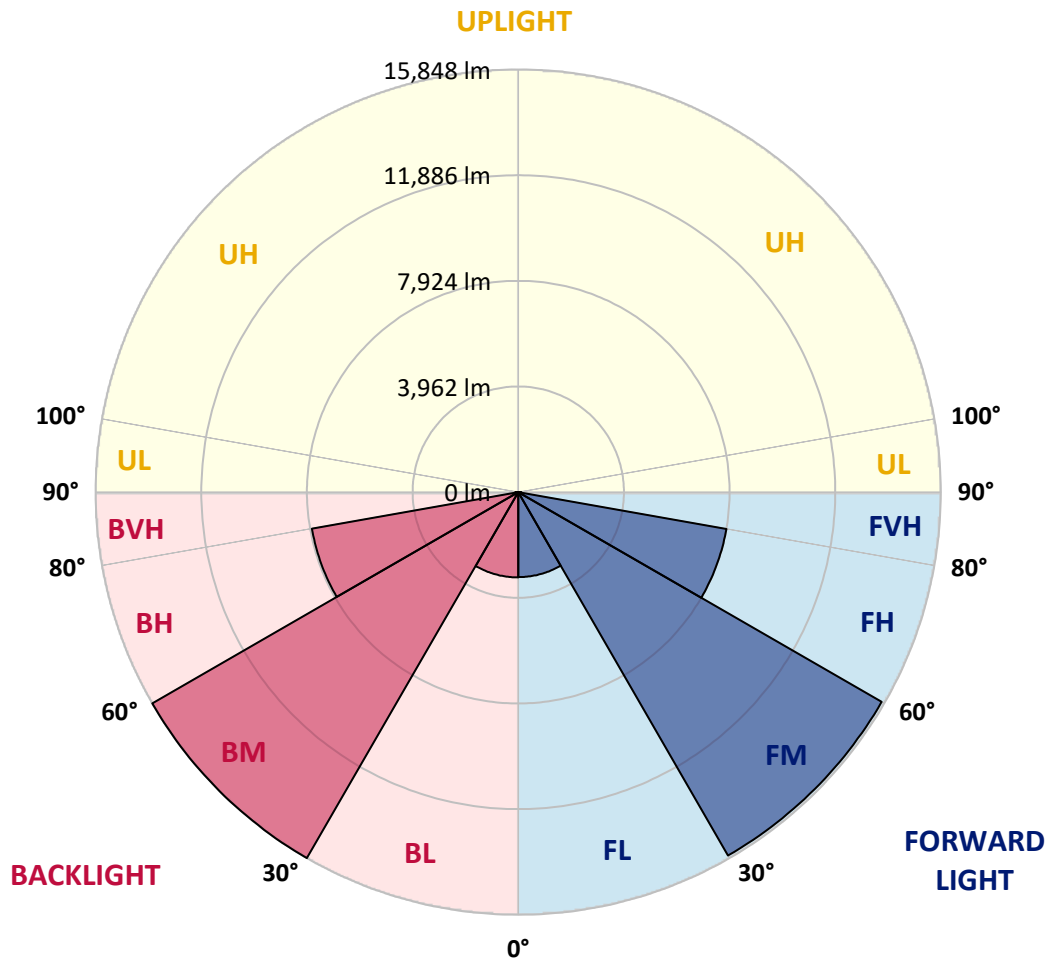
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3186.0	5.9			
FM (30°-60°)	15734.2	29.1			
FH (60°-80°)	7927.9	14.7			G4/12000
FVH (80°-90°)	117.4	0.2			G2/225
BL (0°-30°)	3198.3	5.9	B4/5000		
BM (30°-60°)	15847.7	29.4	B5		
BH (60°-80°)	7859.5	14.6	B5		G4/12000
BVH (80°-90°)	111.5	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





REPORT NUMBER: P478994
 CATALOG NUMBER: IFLD-S-SA6E-750-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6320.2	6320.2	6320.2	6320.2	6320.2	6320.2	6320.2	6320.2	6320.2	6320.2	6320.2
2.5°	6246.0	6258.3	6369.8	6326.4	6363.6	6295.5	6345.0	6450.2	6326.4	6419.3	6450.2
5°	6314.1	6332.6	6332.6	6376.0	6400.7	6388.3	6419.3	6376.0	6493.6	6444.0	6518.3
7.5°	6561.7	6530.7	6481.2	6518.3	6524.5	6555.5	6586.4	6642.1	6623.6	6580.2	6654.5
10°	6605.0	6580.2	6654.5	6660.7	6629.8	6605.0	6635.9	6635.9	6691.7	6704.0	6704.0
12.5°	6679.3	6704.0	6697.8	6747.4	6753.6	6735.0	6784.5	6877.4	6852.6	6871.2	6827.8
15°	6964.0	6933.1	6926.9	6976.4	7056.9	6939.3	7025.9	7019.7	6995.0	7032.1	6933.1
17.5°	7211.6	7112.6	7155.9	7236.4	7205.4	7230.2	7341.6	7242.6	7267.4	7224.0	7193.1
20°	7428.3	7347.8	7354.0	7385.0	7385.0	7459.2	7502.6	7465.4	7440.7	7434.5	7446.9
22.5°	7669.7	7576.9	7583.1	7713.0	7756.4	7731.6	7700.7	7762.6	7775.0	7725.4	7781.1
25°	7849.2	7948.3	7979.2	8041.1	7948.3	8016.4	7991.6	8109.2	8183.5	8084.5	8152.6
27.5°	8319.7	8276.4	8356.8	8350.6	8424.9	8356.8	8400.2	8437.3	8468.3	8474.4	8443.5
30°	8740.6	8759.2	8678.7	8895.4	8722.1	8833.5	8907.8	8926.3	8963.5	8963.5	8870.6
32.5°	9186.3	9149.2	9279.2	9229.7	9198.7	9285.4	9204.9	9458.7	9310.1	9396.8	9291.6
35°	9687.7	9687.7	9737.3	9873.4	9687.7	9632.0	9780.6	9885.8	9885.8	9731.1	9768.2
37.5°	10251.1	10201.5	10263.4	10436.8	10294.4	10108.7	10381.0	10424.4	10393.4	10350.1	10275.8
40°	10647.2	10634.8	10758.7	10987.7	10783.4	10746.3	10795.8	10913.4	10950.5	10993.9	10894.8
42.5°	11315.8	11371.5	11730.5	11674.8	11507.7	11377.7	11365.3	11804.8	11699.6	11588.1	11532.4
45°	12306.2	12256.7	12442.4	12448.6	12231.9	11947.2	12009.1	12411.4	12591.0	12343.4	12436.2
47.5°	13092.4	13117.1	13247.1	13513.3	13011.9	12714.8	12943.8	13593.8	13538.1	13445.2	13531.9
50°	14144.7	14256.1	14664.7	14571.8	14126.1	13760.9	14262.3	14875.2	14943.3	14602.8	14540.9
52.5°	15599.4	15772.8	15995.6	16069.9	15642.8	15512.8	15543.7	16305.1	16138.0	15809.9	15599.4
55°	16874.6	16955.1	17363.6	17976.5	17945.5	17320.3	17679.3	17964.1	17283.2	16608.4	16664.1
57.5°	17419.4	17456.5	18595.5	19821.2	20551.6	20694.0	20285.4	19326.0	17704.1	16404.2	16323.7
60°	16063.7	16416.5	17790.8	20557.8	23894.4	25541.0	22823.4	19480.7	16719.9	15141.3	15023.7
62.5°	12838.6	12857.1	14899.9	19096.9	25974.3	30288.9	23795.3	18026.0	14095.2	12306.2	11835.8
64°	9143.0	9316.3	11662.4	16905.6	25541.0	32220.2	23677.7	16125.6	11619.1	9081.1	8753.0
65°	6561.7	6803.1	9068.7	14677.1	24525.8	31991.2	23324.9	14491.4	9396.8	6933.1	6598.8
67.5°	2414.2	2513.2	3559.4	7341.6	17611.3	27261.9	18484.1	7966.8	4128.9	2940.4	2643.2
70°	1120.4	1126.6	1318.5	2426.6	7700.7	18230.3	8821.1	2989.9	1553.8	1231.9	1145.2
72.5°	823.3	841.9	922.3	1120.4	2265.6	7719.2	2897.0	1225.7	910.0	804.7	786.2
75°	668.5	680.9	705.7	810.9	1046.2	2067.5	1176.1	848.1	724.3	650.0	625.2
77.5°	513.8	513.8	569.5	619.0	693.3	965.7	780.0	674.7	588.1	513.8	495.2
80°	371.4	377.6	445.7	482.8	470.5	637.6	563.3	557.1	482.8	402.4	371.4
82.5°	216.7	235.2	321.9	346.7	334.3	377.6	408.6	433.3	377.6	278.6	253.8
85°	123.8	130.0	185.7	191.9	191.9	179.5	235.2	260.0	253.8	173.3	154.8
87.5°	37.1	37.1	49.5	49.5	55.7	61.9	92.9	111.4	123.8	86.7	80.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P478994
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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	6320.2	6320.2	6320.2	6320.2	6320.2	6320.2	6320.2	6320.2	6320.2	6320.2	6320.2
2.5°	6419.3	6326.4	6332.6	6357.4	6276.9	6307.9	6400.7	6332.6	6314.1	6276.9	6258.3
5°	6388.3	6487.4	6450.2	6462.6	6444.0	6357.4	6345.0	6400.7	6431.7	6376.0	6487.4
7.5°	6605.0	6561.7	6512.1	6530.7	6487.4	6561.7	6611.2	6499.8	6555.5	6524.5	6462.6
10°	6728.8	6648.3	6685.5	6673.1	6642.1	6716.4	6666.9	6654.5	6605.0	6536.9	6635.9
12.5°	6772.1	6865.0	6926.9	6821.7	6840.2	6803.1	6772.1	6772.1	6716.4	6697.8	6716.4
15°	6964.0	7044.5	7019.7	7100.2	6995.0	7032.1	7069.3	6976.4	7025.9	6889.7	6995.0
17.5°	7316.9	7248.8	7335.4	7230.2	7267.4	7341.6	7224.0	7224.0	7261.2	7186.9	7094.0
20°	7539.7	7508.8	7477.8	7484.0	7422.1	7490.2	7453.1	7434.5	7378.8	7403.5	7453.1
22.5°	7750.2	7706.9	7719.2	7737.8	7781.1	7750.2	7731.6	7750.2	7614.0	7737.8	7564.5
25°	8010.2	8127.8	8090.7	8171.1	8047.3	8127.8	8121.6	8004.0	8078.3	8028.8	7991.6
27.5°	8443.5	8381.6	8437.3	8338.3	8424.9	8431.1	8356.8	8554.9	8468.3	8455.9	8431.1
30°	9000.6	8957.3	8920.1	8864.4	8932.5	8876.8	8938.7	8957.3	8876.8	8814.9	8697.3
32.5°	9316.3	9433.9	9477.3	9341.1	9347.3	9378.2	9322.5	9266.8	9316.3	9334.9	9316.3
35°	9762.0	9873.4	9898.2	9793.0	9737.3	9892.0	9780.6	9966.3	9805.4	9811.5	9644.4
37.5°	10282.0	10313.0	10523.4	10405.8	10356.3	10282.0	10486.3	10461.5	10498.7	10201.5	10350.1
40°	10870.1	10981.5	11099.1	10802.0	10795.8	10863.9	10851.5	10993.9	10925.8	10882.5	10777.2
42.5°	11513.9	11749.1	11767.7	11569.6	11445.8	11433.4	11495.3	11811.0	11817.2	11532.4	11408.6
45°	12368.1	12628.1	12560.0	12176.2	12040.0	12021.5	12324.8	12461.0	12578.6	12467.2	12361.9
47.5°	13432.8	13606.2	13556.6	13203.8	12764.3	12888.1	13185.2	13612.4	13488.5	13340.0	13216.2
50°	14571.8	14776.1	14670.9	14318.0	13897.1	13897.1	14262.3	14807.1	14769.9	14479.0	14367.6
52.5°	15834.7	16131.8	16373.2	15871.8	15519.0	15574.7	16150.4	16348.4	16255.6	16051.3	15958.5
55°	16775.6	17345.1	17840.3	17865.1	17883.6	17877.4	18026.0	18224.1	17561.7	17233.6	16899.4
57.5°	16546.5	17623.6	19319.8	20471.1	20811.6	20991.1	20941.6	20025.5	18459.3	17382.2	17493.6
60°	14912.3	16670.3	19406.4	23102.0	25578.1	25330.5	24426.7	20805.4	17964.1	16144.2	15915.1
62.5°	11897.7	14014.7	17951.7	23844.8	30666.5	30592.2	25862.9	19004.1	14968.0	12665.2	12522.9
64°	8963.5	11192.0	16014.2	23652.9	32449.3	32523.6	25497.6	16788.0	11711.9	8963.5	8746.8
65°	6858.8	8926.3	14113.8	23256.8	32065.5	32108.8	24482.4	14497.6	8901.6	6363.6	6128.3
67.5°	2729.9	3800.8	7657.3	17636.0	27534.2	27416.6	17468.9	7013.6	3404.6	2216.1	2172.8
70°	1163.8	1448.5	2686.6	8356.8	18434.6	18094.1	7521.2	2278.0	1262.8	1058.5	1052.3
72.5°	798.5	885.2	1151.4	2581.3	7663.5	7484.0	2141.8	1058.5	860.4	792.4	792.4
75°	643.8	705.7	835.7	1083.3	2030.4	1956.1	1009.0	780.0	687.1	637.6	631.4
77.5°	501.4	563.3	656.2	749.0	928.5	922.3	674.7	588.1	532.4	495.2	482.8
80°	396.2	458.1	520.0	532.4	606.6	594.3	458.1	464.3	433.3	359.0	352.8
82.5°	272.4	371.4	414.7	377.6	359.0	359.0	328.1	328.1	303.3	222.8	204.3
85°	167.1	247.6	260.0	222.8	167.1	167.1	179.5	173.3	160.9	117.6	111.4
87.5°	86.7	117.6	105.2	86.7	55.7	55.7	49.5	37.1	37.1	31.0	31.0
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)