

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: P481387

Luminaire Tested: **IFLD-L-SA8D-760-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481387  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-760-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (128) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

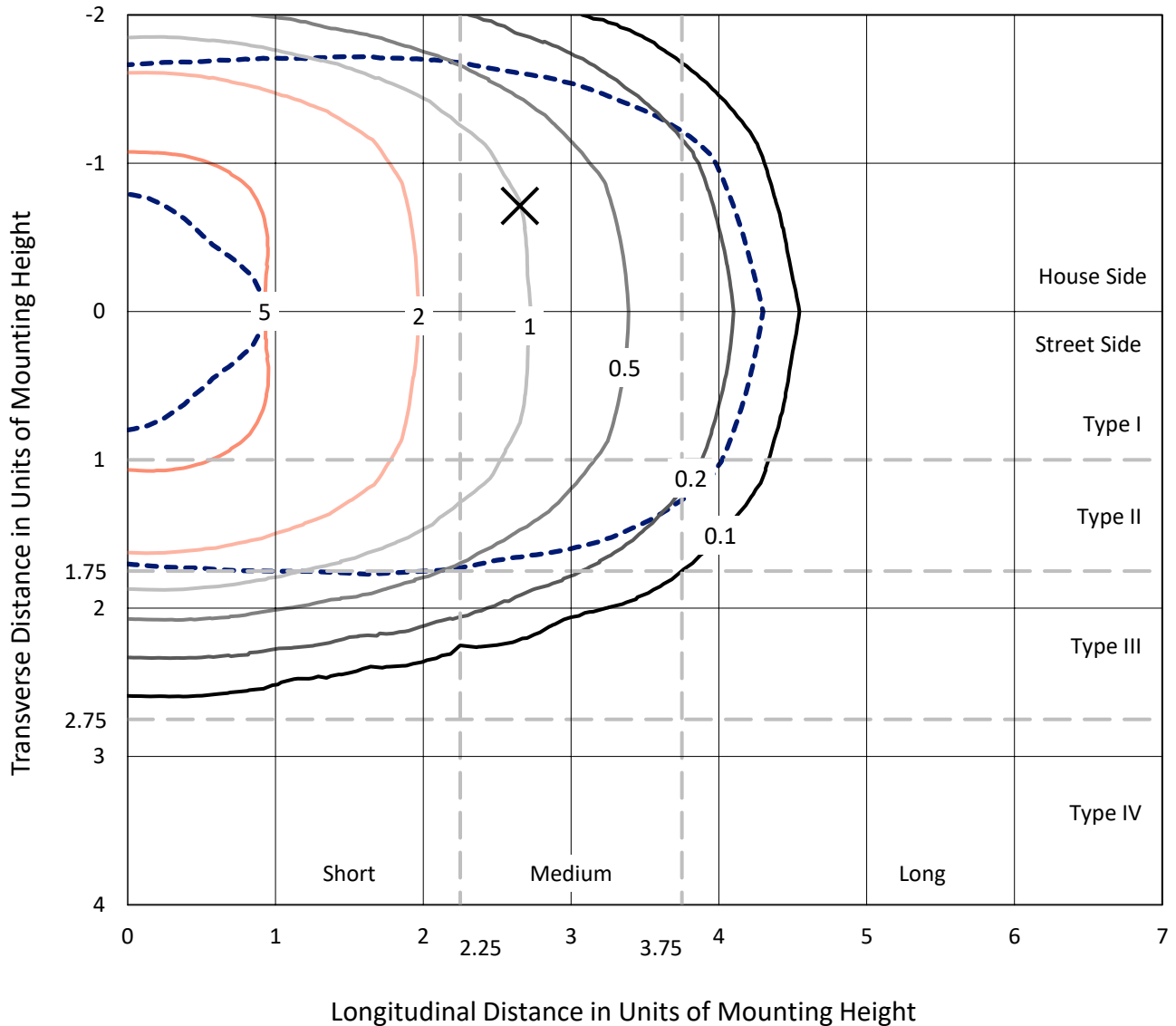
Lumens per Lamp: N/A  
Luminaire Lumens: 58736.6 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 488.3  
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

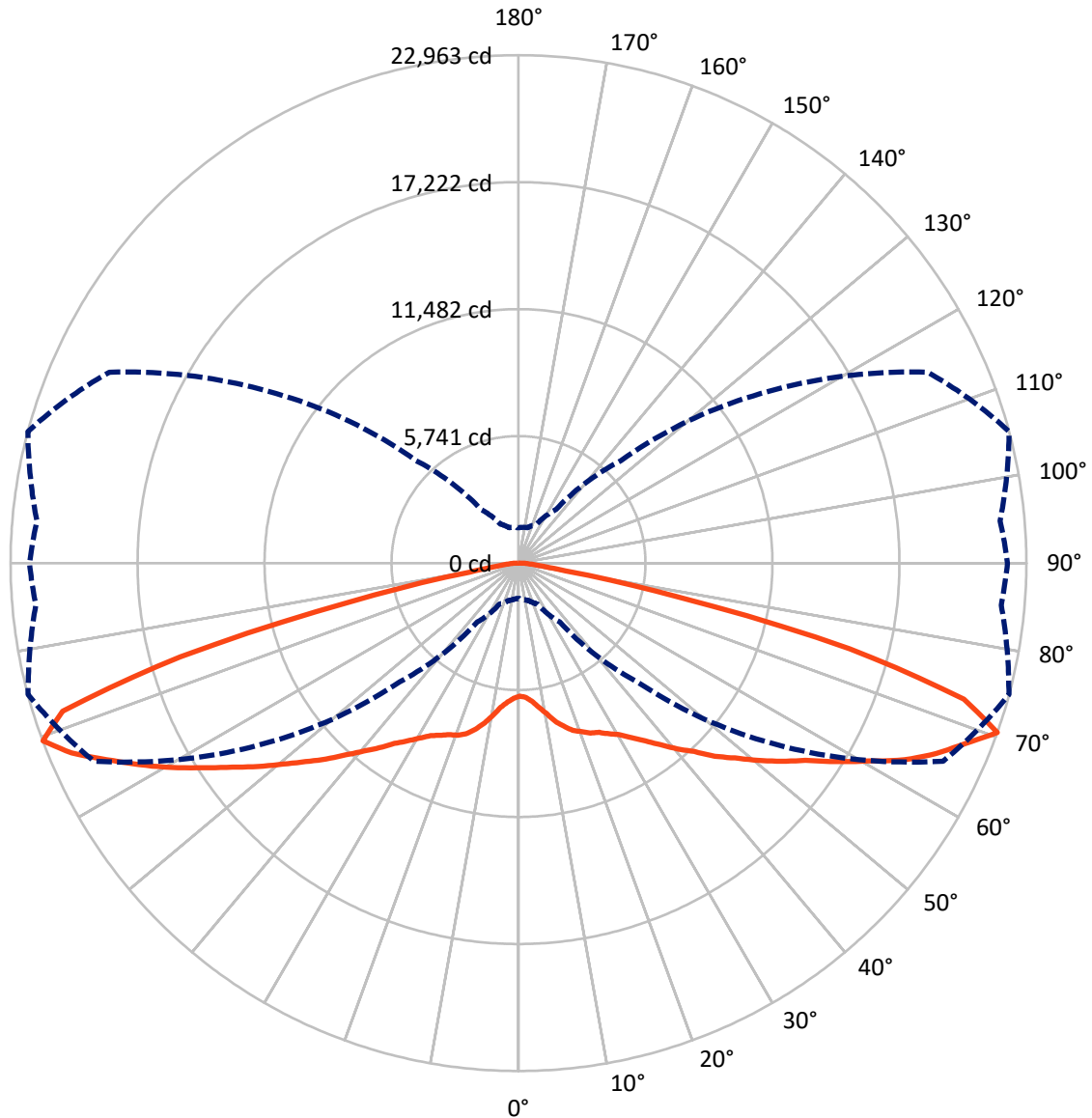
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.9 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
<b>House Side</b>	Lumens	29159.3	0.0	29159.3
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	29577.2	0.0	29577.2
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	58736.6	0.0	58736.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	598.7	1.0
10°-20°	2038.4	3.5
20°-30°	3946.9	6.7
30°-40°	6675.9	11.4
40°-50°	10650.1	18.1
50°-60°	14577.7	24.8
60°-70°	13740.4	23.4
70°-80°	6053.1	10.3
80°-90°	455.4	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°	58736.6	100.0
0°-180°	58736.6	100.0

**Coefficient of Utilization**

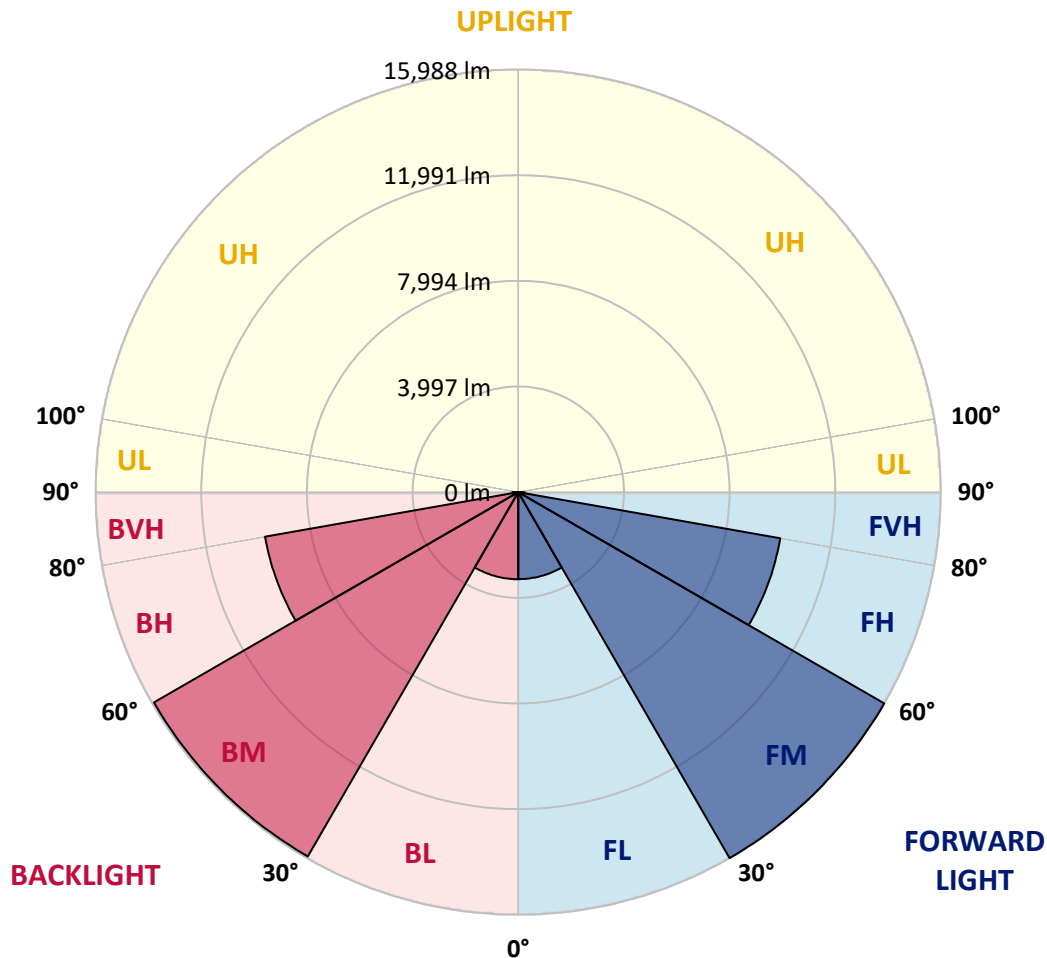


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3290.2	5.6			
FM (30°-60°)	15987.6	27.2			
FH (60°-80°)	10066.8	17.1			G4/12000
FVH (80°-90°)	232.6	0.4			G3/500
BL (0°-30°)	3293.8	5.6	B4/5000		
BM (30°-60°)	15916.1	27.1	B5		
BH (60°-80°)	9726.7	16.6	B5		G5
BVH (80°-90°)	222.8	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°	6014.6	6014.6	6014.6	6014.6	6014.6	6014.6	6014.6	6014.6	6014.6	6014.6	6014.6
2.5°	5976.6	5976.6	5970.2	6001.9	6033.6	6046.2	6071.5	6077.9	6115.9	6084.2	6147.5
5°	5957.6	5951.3	6001.9	6077.9	6077.9	6160.2	6210.8	6280.5	6299.5	6337.5	6350.1
7.5°	6090.5	6077.9	6052.6	6134.9	6204.5	6331.1	6400.8	6521.1	6565.4	6616.0	6673.0
10°	6172.8	6172.8	6147.5	6293.1	6356.4	6527.4	6679.3	6799.6	6970.6	7027.5	7033.9
12.5°	6185.5	6204.5	6280.5	6470.4	6647.7	6869.3	6983.2	7211.1	7382.1	7489.7	7527.7
15°	6375.4	6337.5	6419.8	6679.3	6938.9	7135.2	7337.8	7502.4	7749.3	7888.6	7977.2
17.5°	6546.4	6508.4	6660.3	6970.6	7236.5	7540.4	7717.6	7894.9	8072.2	8198.8	8205.1
20°	6818.6	6850.3	6983.2	7318.8	7667.0	7932.9	8135.5	8167.1	8255.8	8439.4	8407.7
22.5°	7154.2	7128.8	7407.4	7774.6	8154.5	8376.1	8490.0	8407.7	8363.4	8559.7	8604.0
25°	7489.7	7565.7	7818.9	8160.8	8616.7	8914.2	8945.9	8718.0	8553.3	8623.0	8604.0
27.5°	8002.5	8015.2	8281.1	8686.3	9148.5	9408.0	9389.1	9066.2	8749.6	8755.9	8768.6
30°	8661.0	8597.7	8888.9	9256.1	9711.9	9946.2	9977.8	9515.7	9091.5	8964.9	8996.5
32.5°	9294.1	9370.1	9623.3	10041.2	10376.7	10509.7	10440.0	10028.5	9477.7	9306.7	9325.7
35°	10104.5	10091.8	10440.0	10794.6	11047.8	11073.1	11016.2	10414.7	9895.5	9674.0	9585.3
37.5°	10971.8	11085.8	11313.7	11604.9	11870.9	11883.5	11573.3	11092.1	10452.7	10085.5	10193.1
40°	11940.5	12067.1	12231.7	12655.9	12852.2	12649.6	12333.0	11680.9	11016.2	10693.3	10743.9
42.5°	12795.2	12852.2	13187.7	13687.9	13782.9	13694.2	13225.7	12434.3	11661.9	11307.4	11332.7
45°	13580.3	13656.2	14093.1	14542.6	14764.2	14612.2	14067.8	13314.3	12415.3	12111.4	11991.1
47.5°	14302.0	14454.0	14878.1	15340.3	15682.2	15694.9	15023.8	14112.1	13162.4	12763.5	12757.2
50°	14789.5	15011.1	15428.9	15954.4	16454.6	16650.8	15979.8	14998.4	13979.1	13554.9	13510.6
52.5°	15055.4	15283.3	15701.2	16517.9	17075.0	17378.9	17062.4	15827.8	14935.1	14491.9	14422.3
55°	14732.5	14884.5	15568.2	16714.2	17575.2	18075.4	17866.4	16973.7	15884.8	15523.9	15587.2
57.5°	13358.7	13675.2	14517.3	15948.1	17562.5	18790.8	18771.8	18056.4	16980.1	16638.2	16650.8
60°	10997.2	11263.1	12301.4	14302.0	16853.4	19082.0	19753.1	19107.3	18208.3	17809.4	17796.8
62.5°	7762.0	8097.5	9300.4	11484.7	14764.2	18676.8	20880.0	20430.5	19411.2	19120.0	19227.6
65°	4343.1	4545.7	5660.0	7635.3	11250.4	16448.3	21082.6	21804.4	20633.1	20189.9	20208.9
67.5°	2323.5	2399.5	2918.6	4007.6	6881.9	12681.2	19037.7	22595.8	21956.3	21190.3	21070.0
70°	1595.4	1620.8	1753.7	2051.3	3254.2	7584.7	14359.0	21183.9	22950.3	21905.7	22108.3
72.5°	1348.5	1335.9	1367.5	1399.2	1703.1	3393.5	8426.7	16302.6	21665.1	21272.6	21196.6
75°	1171.3	1164.9	1177.6	1145.9	1183.9	1494.1	3729.0	10161.5	15859.5	17701.8	17986.7
77.5°	968.7	975.0	981.3	949.7	937.0	987.7	1500.5	4463.4	7806.3	8616.7	9294.1
80°	734.4	747.1	797.7	766.1	715.4	721.7	886.4	1494.1	2241.2	2032.3	2095.6
82.5°	500.2	506.5	614.1	576.1	538.1	487.5	569.8	772.4	873.7	664.8	582.5
85°	354.5	348.2	398.9	367.2	341.9	246.9	341.9	436.8	525.5	329.2	297.6
87.5°	82.3	82.3	164.6	133.0	126.6	101.3	133.0	170.9	227.9	145.6	133.0
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°	6014.6	6014.6	6014.6	6014.6	6014.6	6014.6	6014.6	6014.6	6014.6	6014.6
2.5°	6128.5	6071.5	6071.5	6058.9	6008.2	5995.6	5951.3	5963.9	5932.3	5900.6
5°	6343.8	6267.8	6267.8	6160.2	6058.9	6046.2	5995.6	5995.6	5944.9	5957.6
7.5°	6641.3	6571.7	6457.7	6362.8	6223.5	6166.5	6071.5	6058.9	6046.2	6020.9
10°	6995.9	6907.3	6793.3	6597.0	6483.1	6375.4	6280.5	6147.5	6115.9	6122.2
12.5°	7477.1	7337.8	7090.9	6919.9	6774.3	6635.0	6495.7	6299.5	6255.1	6274.1
15°	7818.9	7641.7	7394.7	7331.4	7135.2	6964.2	6736.3	6514.7	6438.8	6419.8
17.5°	8097.5	7951.9	7806.3	7711.3	7553.0	7344.1	7027.5	6774.3	6603.4	6584.4
20°	8325.4	8135.5	8103.8	8160.8	7964.6	7825.3	7439.1	7128.8	6900.9	6806.0
22.5°	8464.7	8344.4	8433.1	8483.7	8471.0	8236.8	7837.9	7477.1	7192.2	7103.5
25°	8616.7	8477.4	8793.9	8964.9	9009.2	8623.0	8312.8	7837.9	7559.4	7502.4
27.5°	8692.6	8743.3	9110.5	9471.4	9439.7	9142.1	8724.3	8300.1	8078.5	7977.2
30°	8914.2	8996.5	9553.7	9958.9	9965.2	9674.0	9357.4	8876.2	8629.3	8585.0
32.5°	9313.1	9414.4	10009.5	10440.0	10516.0	10294.4	9977.8	9680.3	9427.0	9325.7
35°	9617.0	9876.5	10547.6	10940.2	11142.8	11009.8	10832.5	10522.3	10256.4	10167.8
37.5°	10053.8	10414.7	11060.5	11592.3	11820.2	11807.5	11674.6	11339.0	11117.4	11041.5
40°	10680.6	11041.5	11630.3	12333.0	12757.2	12738.2	12662.2	12402.7	12073.4	12035.5
42.5°	11345.4	11642.9	12409.0	13213.1	13820.8	13757.5	13554.9	13251.0	13023.1	12972.5
45°	11991.1	12453.3	13162.4	14194.4	14650.2	14808.5	14567.9	14048.8	13789.2	13757.5
47.5°	12801.5	13168.7	14055.1	14979.4	15656.9	15682.2	15270.7	14789.5	14314.7	14416.0
50°	13523.3	14010.8	14909.8	15922.8	16733.2	16441.9	15916.4	15315.0	14973.1	14840.1
52.5°	14295.7	14890.8	15935.4	16967.4	17416.9	17125.7	16271.0	15599.9	15080.7	15023.8
55°	15422.6	15732.8	17100.4	17891.7	18037.4	17423.2	16163.4	15213.7	14542.6	14378.0
57.5°	16568.5	16929.4	18126.0	18809.8	18657.8	17258.6	15466.9	13998.1	13118.1	12883.8
60°	17727.1	18170.3	19177.0	19803.7	19018.7	16125.4	13498.0	11604.9	10579.3	10370.4
62.5°	19018.7	19594.8	20493.8	20715.4	17948.7	13884.1	10712.3	8376.1	7337.8	6989.6
65°	20164.6	20753.4	21861.4	20525.5	15675.9	10357.7	6926.2	4786.3	4020.3	3741.7
67.5°	21108.0	21772.7	22317.2	18164.0	11478.3	6065.2	3608.7	2519.8	2234.9	2133.6
70°	21855.0	22963.0	20417.9	13352.3	6559.0	2956.6	1950.0	1658.8	1620.8	1595.4
72.5°	21202.9	21057.3	15245.3	7705.0	2874.3	1627.1	1411.8	1367.5	1361.2	1367.5
75°	17340.9	15466.9	9116.8	3349.2	1443.5	1177.6	1171.3	1152.3	1183.9	1183.9
77.5°	8414.1	7356.8	3811.3	1437.2	949.7	924.3	956.0	956.0	956.0	956.0
80°	1950.0	2158.9	1361.2	873.7	690.1	690.1	759.7	766.1	734.4	721.7
82.5°	664.8	886.4	747.1	550.8	455.8	512.8	576.1	588.8	487.5	493.8
85°	329.2	519.2	405.2	316.6	234.3	316.6	373.5	392.5	335.5	322.9
87.5°	151.9	227.9	151.9	107.6	82.3	114.0	107.6	88.6	50.6	50.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)