

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: P481153

Luminaire Tested: **IFLD-L-SA8D-722-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481153
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-722-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

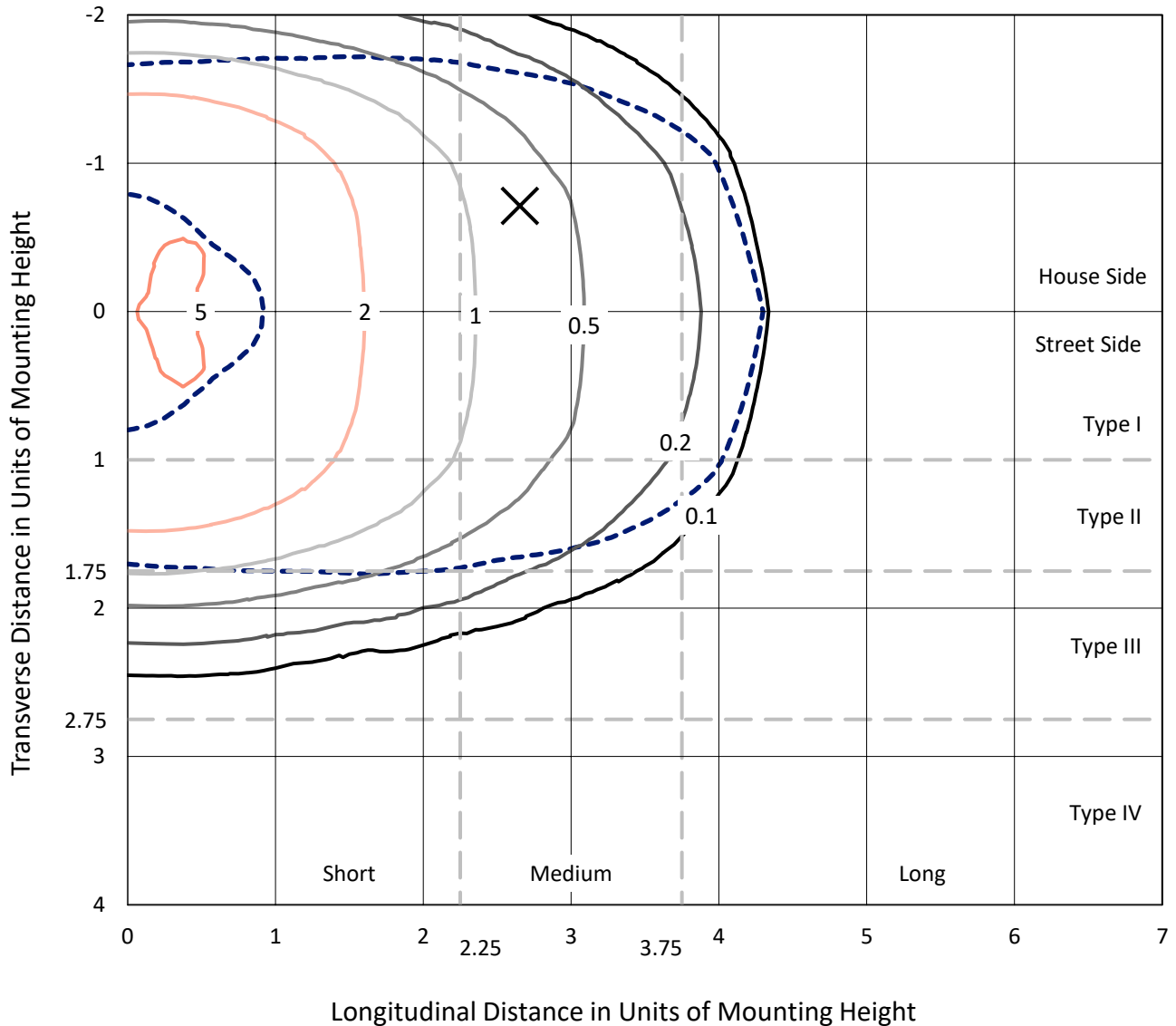
Lumens per Lamp: N/A
Luminaire Lumens: 42296.8 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

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

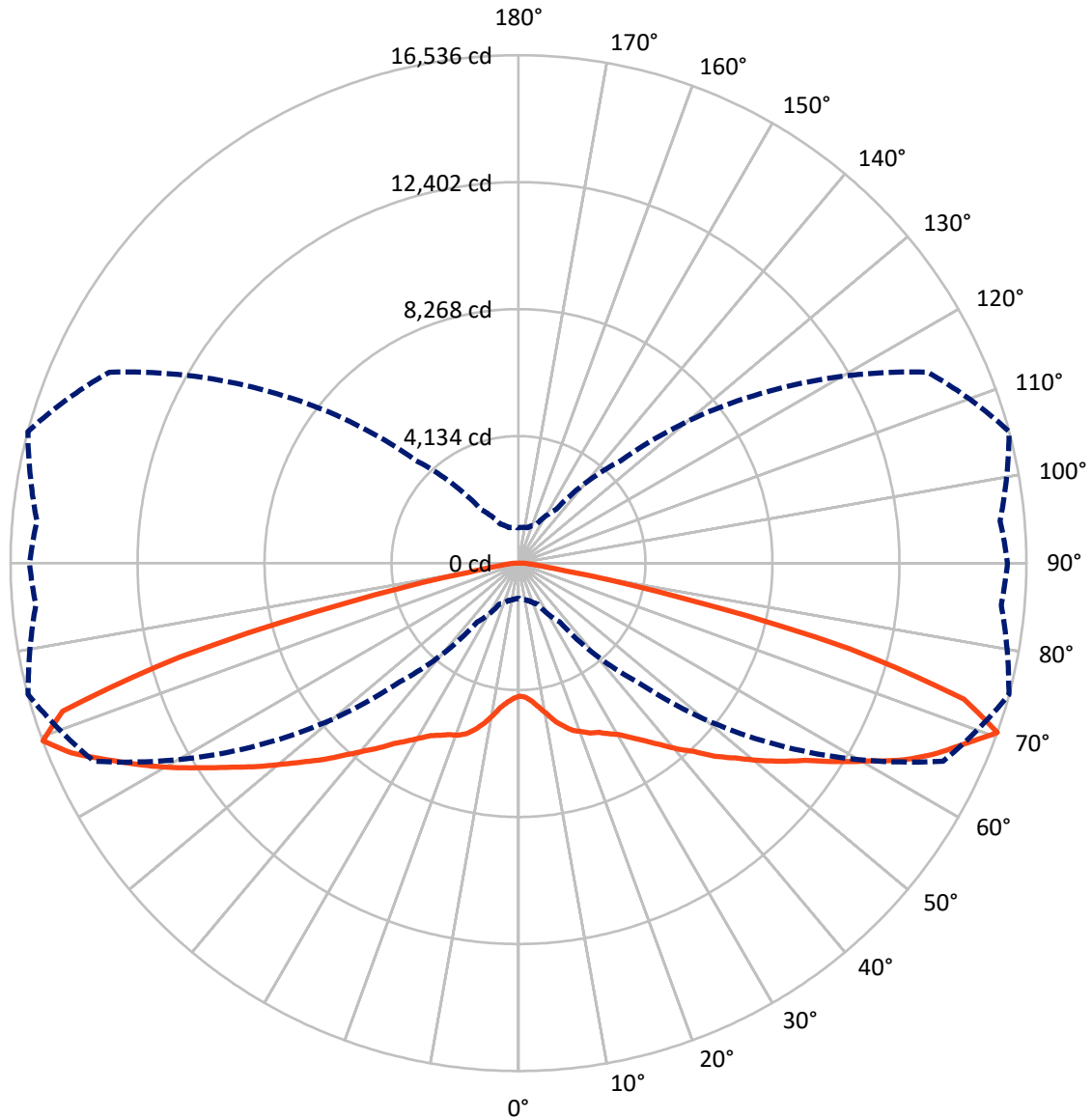
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 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	20997.9	0.0	20997.9
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	21298.8	0.0	21298.8
	% Fixture	50.4	0.0	50.4
Total	Lumens	42296.8	0.0	42296.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.1	1.0
10°-20°	1467.8	3.5
20°-30°	2842.2	6.7
30°-40°	4807.4	11.4
40°-50°	7669.2	18.1
50°-60°	10497.5	24.8
60°-70°	9894.6	23.4
70°-80°	4358.9	10.3
80°-90°	328.0	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°	42296.8	100.0
0°-180°	42296.8	100.0

Coefficient of Utilization

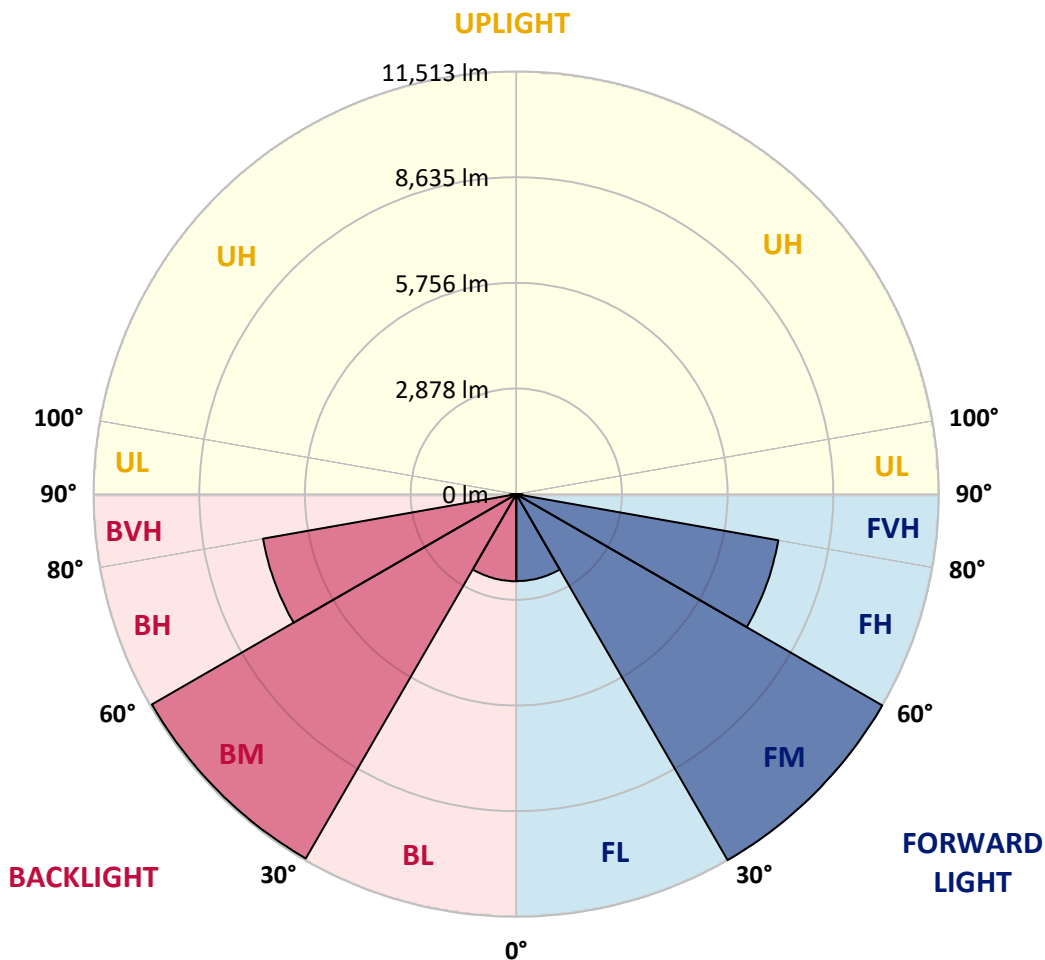


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2369.3	5.6			
FM (30°-60°)	11512.8	27.2			
FH (60°-80°)	7249.2	17.1			G3/7500
FVH (80°-90°)	167.5	0.4			G2/225
BL (0°-30°)	2371.9	5.6	B3/2500		
BM (30°-60°)	11461.3	27.1	B5		
BH (60°-80°)	7004.3	16.6	B5		G5
BVH (80°-90°)	160.4	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°	4331.1	4331.1	4331.1	4331.1	4331.1	4331.1	4331.1	4331.1	4331.1	4331.1	4331.1
2.5°	4303.8	4303.8	4299.2	4322.0	4344.8	4353.9	4372.2	4376.7	4404.1	4381.3	4426.9
5°	4290.1	4285.6	4322.0	4376.7	4376.7	4436.0	4472.5	4522.6	4536.3	4563.7	4572.8
7.5°	4385.9	4376.7	4358.5	4417.8	4467.9	4559.1	4609.3	4695.9	4727.8	4764.3	4805.3
10°	4445.1	4445.1	4426.9	4531.7	4577.3	4700.4	4809.9	4896.5	5019.6	5060.6	5065.2
12.5°	4454.2	4467.9	4522.6	4659.4	4787.1	4946.6	5028.7	5192.8	5315.9	5393.4	5420.8
15°	4591.0	4563.7	4622.9	4809.9	4996.8	5138.1	5284.0	5402.5	5580.3	5680.6	5744.5
17.5°	4714.1	4686.8	4796.2	5019.6	5211.1	5429.9	5557.5	5685.2	5812.9	5904.0	5908.6
20°	4910.2	4932.9	5028.7	5270.3	5521.1	5712.6	5858.4	5881.2	5945.1	6077.3	6054.5
22.5°	5151.8	5133.5	5334.1	5598.6	5872.1	6031.7	6113.8	6054.5	6022.6	6163.9	6195.8
25°	5393.4	5448.1	5630.5	5876.7	6204.9	6419.2	6442.0	6277.9	6159.3	6209.5	6195.8
27.5°	5762.7	5771.8	5963.3	6255.1	6587.9	6774.8	6761.1	6528.6	6300.7	6305.2	6314.4
30°	6236.8	6191.3	6401.0	6665.4	6993.7	7162.3	7185.1	6852.3	6546.9	6455.7	6478.5
32.5°	6692.8	6747.5	6929.8	7230.7	7472.4	7568.1	7518.0	7221.6	6825.0	6701.9	6715.6
35°	7276.3	7267.2	7518.0	7773.3	7955.6	7973.9	7932.8	7499.7	7125.9	6966.3	6902.5
37.5°	7900.9	7983.0	8147.1	8356.8	8548.3	8557.4	8334.0	7987.5	7527.1	7262.6	7340.2
40°	8598.5	8689.6	8808.2	9113.6	9255.0	9109.1	8881.1	8411.5	7932.8	7700.3	7736.8
42.5°	9213.9	9255.0	9496.6	9856.8	9925.2	9861.3	9524.0	8954.1	8397.9	8142.6	8160.8
45°	9779.3	9834.0	10148.6	10472.3	10631.8	10522.4	10130.3	9587.8	8940.4	8721.6	8634.9
47.5°	10299.0	10408.4	10713.9	11046.7	11292.9	11302.0	10818.7	10162.2	9478.4	9191.1	9186.6
50°	10650.1	10809.6	11110.5	11488.9	11849.1	11990.4	11507.2	10800.5	10066.5	9761.0	9729.1
52.5°	10841.5	11005.7	11306.6	11894.7	12295.9	12514.7	12286.8	11397.8	10754.9	10435.8	10385.6
55°	10609.0	10718.4	11210.8	12036.0	12656.1	13016.2	12865.8	12222.9	11438.8	11178.9	11224.5
57.5°	9619.7	9847.7	10454.0	11484.4	12646.9	13531.4	13517.7	13002.6	12227.5	11981.3	11990.4
60°	7919.2	8110.6	8858.3	10299.0	12136.3	13741.1	14224.4	13759.4	13112.0	12824.8	12815.6
62.5°	5589.5	5831.1	6697.3	8270.2	10631.8	13449.3	15035.9	14712.2	13978.2	13768.5	13846.0
65°	3127.5	3273.4	4075.8	5498.3	8101.5	11844.5	15181.8	15701.5	14858.1	14539.0	14552.6
67.5°	1673.2	1727.9	2101.7	2885.9	4955.7	9131.9	13709.2	16271.4	15811.0	15259.3	15172.7
70°	1148.9	1167.1	1262.9	1477.1	2343.4	5461.8	10340.0	15254.8	16526.7	15774.5	15920.4
72.5°	971.1	962.0	984.8	1007.6	1226.4	2443.7	6068.2	11739.7	15601.2	15318.6	15263.9
75°	843.4	838.9	848.0	825.2	852.6	1075.9	2685.3	7317.4	11420.5	12747.2	12952.4
77.5°	697.5	702.1	706.7	683.9	674.7	711.2	1080.5	3214.2	5621.4	6204.9	6692.8
80°	528.9	538.0	574.4	551.7	515.2	519.7	638.3	1075.9	1613.9	1463.5	1509.1
82.5°	360.2	364.7	442.2	414.9	387.5	351.1	410.3	556.2	629.2	478.7	419.4
85°	255.3	250.8	287.2	264.4	246.2	177.8	246.2	314.6	378.4	237.1	214.3
87.5°	59.3	59.3	118.5	95.7	91.2	72.9	95.7	123.1	164.1	104.9	95.7
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°	4331.1	4331.1	4331.1	4331.1	4331.1	4331.1	4331.1	4331.1	4331.1	4331.1
2.5°	4413.2	4372.2	4372.2	4363.1	4326.6	4317.5	4285.6	4294.7	4271.9	4249.1
5°	4568.2	4513.5	4513.5	4436.0	4363.1	4353.9	4317.5	4317.5	4281.0	4290.1
7.5°	4782.5	4732.3	4650.3	4581.9	4481.6	4440.6	4372.2	4363.1	4353.9	4335.7
10°	5037.8	4974.0	4891.9	4750.6	4668.5	4591.0	4522.6	4426.9	4404.1	4408.7
12.5°	5384.3	5284.0	5106.2	4983.1	4878.2	4777.9	4677.6	4536.3	4504.4	4518.1
15°	5630.5	5502.8	5325.0	5279.4	5138.1	5015.0	4850.9	4691.3	4636.6	4622.9
17.5°	5831.1	5726.2	5621.4	5553.0	5439.0	5288.6	5060.6	4878.2	4755.1	4741.5
20°	5995.2	5858.4	5835.6	5876.7	5735.3	5635.0	5356.9	5133.5	4969.4	4901.0
22.5°	6095.5	6008.9	6072.7	6109.2	6100.1	5931.4	5644.2	5384.3	5179.1	5115.3
25°	6204.9	6104.6	6332.6	6455.7	6487.6	6209.5	5986.1	5644.2	5443.6	5402.5
27.5°	6259.6	6296.1	6560.5	6820.4	6797.6	6583.3	6282.4	5977.0	5817.4	5744.5
30°	6419.2	6478.5	6879.7	7171.5	7176.0	6966.3	6738.4	6391.9	6214.1	6182.1
32.5°	6706.4	6779.4	7207.9	7518.0	7572.7	7413.1	7185.1	6970.9	6788.5	6715.6
35°	6925.3	7112.2	7595.5	7878.1	8024.0	7928.3	7800.6	7577.2	7385.7	7321.9
37.5°	7239.9	7499.7	7964.7	8347.7	8511.8	8502.7	8407.0	8165.3	8005.8	7951.1
40°	7691.2	7951.1	8375.1	8881.1	9186.6	9172.9	9118.2	8931.3	8694.2	8666.9
42.5°	8169.9	8384.2	8935.8	9514.8	9952.5	9906.9	9761.0	9542.2	9378.1	9341.6
45°	8634.9	8967.8	9478.4	10221.5	10549.8	10663.7	10490.5	10116.6	9929.7	9906.9
47.5°	9218.5	9482.9	10121.2	10786.8	11274.7	11292.9	10996.6	10650.1	10308.1	10381.1
50°	9738.2	10089.3	10736.7	11466.1	12049.7	11840.0	11461.6	11028.5	10782.3	10686.5
52.5°	10294.4	10723.0	11475.3	12218.4	12542.1	12332.4	11716.9	11233.6	10859.8	10818.7
55°	11106.0	11329.4	12314.1	12884.0	12988.9	12546.6	11639.4	10955.5	10472.3	10353.7
57.5°	11931.2	12191.0	13052.7	13545.1	13435.7	12428.1	11137.9	10080.2	9446.5	9277.8
60°	12765.5	13084.6	13809.5	14260.9	13695.5	11612.0	9720.0	8356.8	7618.3	7467.8
62.5°	13695.5	14110.4	14757.8	14917.4	12925.1	9998.1	7714.0	6031.7	5284.0	5033.2
65°	14520.7	14944.7	15742.6	14780.6	11288.3	7458.7	4987.7	3446.7	2895.0	2694.4
67.5°	15200.0	15678.7	16070.8	13080.1	8265.6	4367.6	2598.7	1814.5	1609.4	1536.4
70°	15738.0	16535.9	14703.1	9615.1	4723.2	2129.1	1404.2	1194.5	1167.1	1148.9
72.5°	15268.4	15163.6	10978.3	5548.4	2069.8	1171.7	1016.7	984.8	980.2	984.8
75°	12487.4	11137.9	6565.1	2411.8	1039.5	848.0	843.4	829.8	852.6	852.6
77.5°	6059.0	5297.7	2744.6	1034.9	683.9	665.6	688.4	688.4	688.4	688.4
80°	1404.2	1554.7	980.2	629.2	496.9	496.9	547.1	551.7	528.9	519.7
82.5°	478.7	638.3	538.0	396.6	328.3	369.3	414.9	424.0	351.1	355.6
85°	237.1	373.8	291.8	228.0	168.7	228.0	269.0	282.7	241.6	232.5
87.5°	109.4	164.1	109.4	77.5	59.3	82.1	77.5	63.8	36.5	36.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)