

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: P481178

Luminaire Tested: **IFLD-S-SA6E-727-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481178
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-727-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

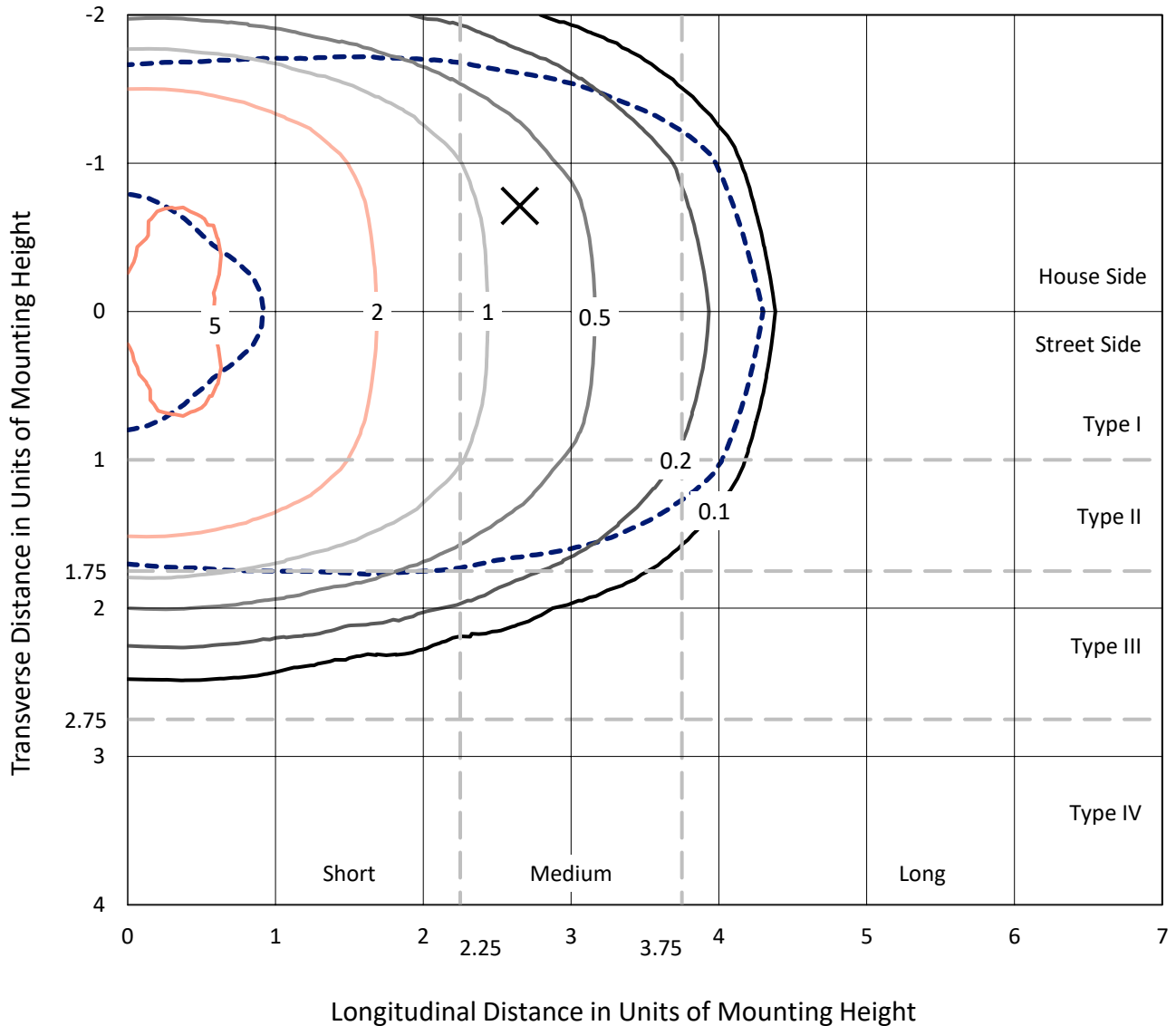
Lumens per Lamp: N/A
Luminaire Lumens: 45579.9 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B5 - U0 - G5

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

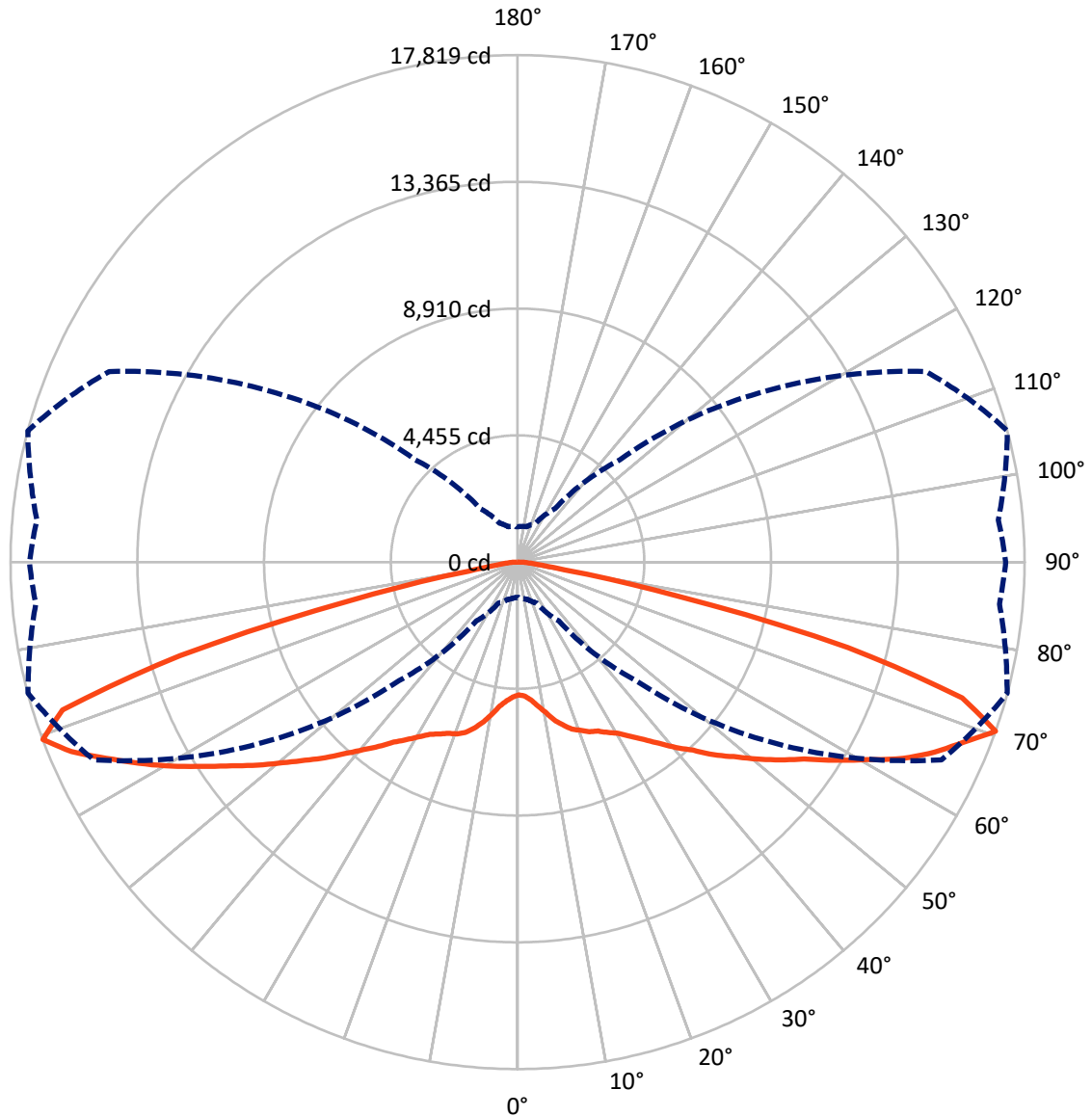
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.1 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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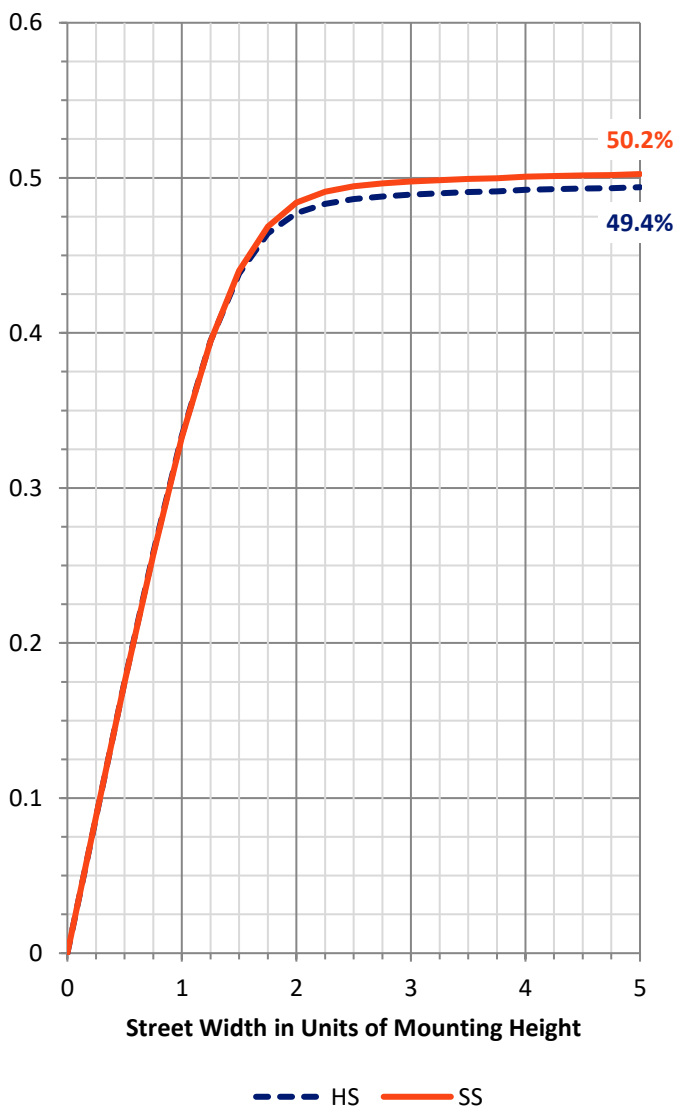
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22627.8	0.0	22627.8
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	22952.1	0.0	22952.1
	% Fixture	50.4	0.0	50.4
Total	Lumens	45579.9	0.0	45579.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.6	1.0
10°-20°	1581.8	3.5
20°-30°	3062.9	6.7
30°-40°	5180.6	11.4
40°-50°	8264.5	18.1
50°-60°	11312.3	24.8
60°-70°	10662.6	23.4
70°-80°	4697.2	10.3
80°-90°	353.4	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°	45579.9	100.0
0°-180°	45579.9	100.0

Coefficient of Utilization

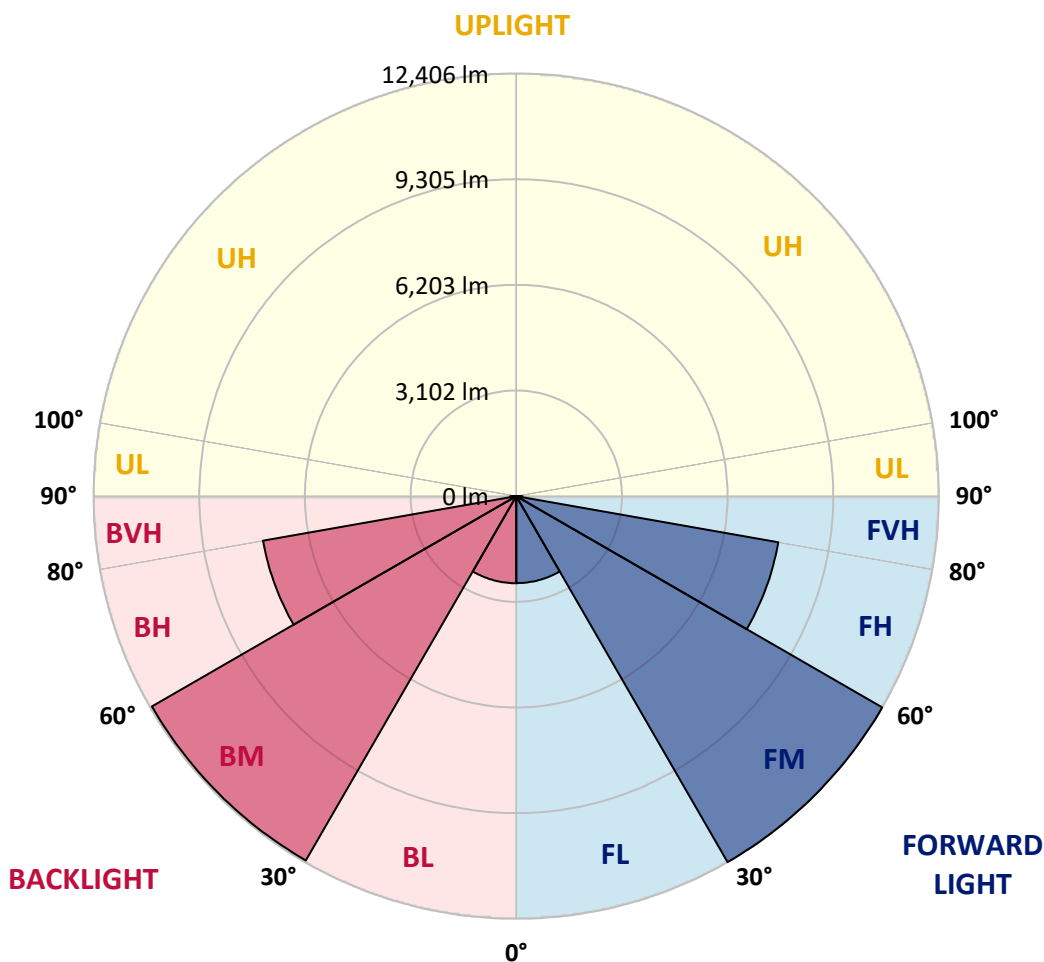


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2553.2	5.6			
FM (30°-60°)	12406.4	27.2			
FH (60°-80°)	7811.9	17.1			G4/12000
FVH (80°-90°)	180.5	0.4			G2/225
BL (0°-30°)	2556.0	5.6	B4/5000		
BM (30°-60°)	12351.0	27.1	B5		
BH (60°-80°)	7547.9	16.6	B5		G5
BVH (80°-90°)	172.9	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°	4667.3	4667.3	4667.3	4667.3	4667.3	4667.3	4667.3	4667.3	4667.3	4667.3	4667.3
2.5°	4637.9	4637.9	4632.9	4657.5	4682.1	4691.9	4711.5	4716.5	4745.9	4721.4	4770.5
5°	4623.1	4618.2	4657.5	4716.5	4716.5	4780.3	4819.6	4873.7	4888.4	4917.9	4927.7
7.5°	4726.3	4716.5	4696.8	4760.7	4814.7	4913.0	4967.0	5060.4	5094.8	5134.1	5178.3
10°	4790.2	4790.2	4770.5	4883.5	4932.6	5065.3	5183.2	5276.5	5409.2	5453.4	5458.3
12.5°	4800.0	4814.7	4873.7	5021.1	5158.6	5330.6	5419.0	5595.9	5728.5	5812.1	5841.5
15°	4947.4	4917.9	4981.8	5183.2	5384.6	5536.9	5694.1	5821.9	6013.5	6121.6	6190.4
17.5°	5080.0	5050.5	5168.5	5409.2	5615.5	5851.4	5988.9	6126.5	6264.1	6362.3	6367.2
20°	5291.3	5315.8	5419.0	5679.4	5949.6	6156.0	6313.2	6337.7	6406.5	6549.0	6524.4
22.5°	5551.7	5532.0	5748.2	6033.1	6327.9	6499.9	6588.3	6524.4	6490.0	6642.4	6676.7
25°	5812.1	5871.0	6067.5	6332.8	6686.6	6917.5	6942.0	6765.2	6637.4	6691.5	6676.7
27.5°	6210.0	6219.8	6426.2	6740.6	7099.3	7300.7	7286.0	7035.4	6789.7	6794.7	6804.5
30°	6721.0	6671.8	6897.8	7182.8	7536.5	7718.3	7742.9	7384.2	7055.0	6956.8	6981.3
32.5°	7212.3	7271.2	7467.7	7792.0	8052.4	8155.6	8101.5	7782.2	7354.7	7222.1	7236.8
35°	7841.1	7831.3	8101.5	8376.6	8573.2	8592.8	8548.6	8081.9	7679.0	7507.0	7438.3
37.5°	8514.2	8602.6	8779.5	9005.5	9211.8	9221.7	8980.9	8607.5	8111.3	7826.4	7909.9
40°	9265.9	9364.1	9491.9	9821.1	9973.4	9816.1	9570.5	9064.5	8548.6	8298.0	8337.3
42.5°	9929.1	9973.4	10233.7	10621.9	10695.6	10626.8	10263.2	9649.1	9049.7	8774.6	8794.2
45°	10538.3	10597.3	10936.3	11285.1	11457.1	11339.2	10916.6	10332.0	9634.4	9398.5	9305.2
47.5°	11098.4	11216.3	11545.5	11904.2	12169.5	12179.3	11658.5	10951.0	10214.1	9904.6	9899.7
50°	11476.7	11648.7	11972.9	12380.7	12768.8	12921.1	12400.4	11638.9	10847.9	10518.7	10484.3
52.5°	11683.1	11859.9	12184.2	12818.0	13250.3	13486.1	13240.5	12282.5	11589.7	11245.8	11191.8
55°	11432.5	11550.4	12081.0	12970.3	13638.4	14026.6	13864.4	13171.7	12326.7	12046.6	12095.8
57.5°	10366.4	10612.0	11265.5	12375.8	13628.6	14581.7	14567.0	14011.8	13176.6	12911.3	12921.1
60°	8533.8	8740.2	9545.9	11098.4	13078.4	14807.7	15328.5	14827.4	14129.7	13820.2	13810.4
62.5°	6023.3	6283.7	7217.2	8912.1	11457.1	14493.3	16203.0	15854.2	15063.2	14837.2	14920.7
65°	3370.3	3527.5	4392.2	5925.1	8730.4	12763.9	16360.2	16920.3	16011.4	15667.5	15682.2
67.5°	1803.1	1862.0	2264.9	3109.9	5340.4	9840.7	14773.3	17534.4	17038.2	16443.8	16350.4
70°	1238.1	1257.7	1360.9	1591.8	2525.3	5885.8	11142.6	16438.8	17809.6	16998.9	17156.1
72.5°	1046.5	1036.6	1061.2	1085.8	1321.6	2633.4	6539.2	12650.9	16812.2	16507.6	16448.7
75°	908.9	904.0	913.8	889.2	918.7	1159.5	2893.7	7885.3	12307.0	13736.7	13957.8
77.5°	751.7	756.6	761.5	736.9	727.1	766.4	1164.4	3463.7	6057.7	6686.6	7212.3
80°	569.9	579.7	619.0	594.5	555.2	560.1	687.8	1159.5	1739.2	1577.1	1626.2
82.5°	388.1	393.0	476.6	447.1	417.6	378.3	442.2	599.4	678.0	515.9	452.0
85°	275.1	270.2	309.5	285.0	265.3	191.6	265.3	339.0	407.8	255.5	230.9
87.5°	63.9	63.9	127.7	103.2	98.3	78.6	103.2	132.7	176.9	113.0	103.2
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°	4667.3	4667.3	4667.3	4667.3	4667.3	4667.3	4667.3	4667.3	4667.3	4667.3
2.5°	4755.8	4711.5	4711.5	4701.7	4662.4	4652.6	4618.2	4628.0	4603.5	4578.9
5°	4922.8	4863.9	4863.9	4780.3	4701.7	4691.9	4652.6	4652.6	4613.3	4623.1
7.5°	5153.7	5099.7	5011.2	4937.5	4829.5	4785.2	4711.5	4701.7	4691.9	4672.2
10°	5428.8	5360.1	5271.6	5119.3	5030.9	4947.4	4873.7	4770.5	4745.9	4750.9
12.5°	5802.2	5694.1	5502.5	5369.9	5256.9	5148.8	5040.7	4888.4	4854.0	4868.8
15°	6067.5	5930.0	5738.4	5689.2	5536.9	5404.3	5227.4	5055.5	4996.5	4981.8
17.5°	6283.7	6170.7	6057.7	5984.0	5861.2	5699.1	5453.4	5256.9	5124.2	5109.5
20°	6460.6	6313.2	6288.6	6332.8	6180.5	6072.4	5772.8	5532.0	5355.2	5281.5
22.5°	6568.7	6475.3	6544.1	6583.4	6573.6	6391.8	6082.3	5802.2	5581.1	5512.4
25°	6686.6	6578.5	6824.1	6956.8	6991.2	6691.5	6450.7	6082.3	5866.1	5821.9
27.5°	6745.5	6784.8	7069.8	7349.8	7325.3	7094.3	6770.1	6440.9	6269.0	6190.4
30°	6917.5	6981.3	7413.7	7728.1	7733.0	7507.0	7261.4	6888.0	6696.4	6662.0
32.5°	7227.0	7305.6	7767.4	8101.5	8160.5	7988.5	7742.9	7511.9	7315.4	7236.8
35°	7462.8	7664.3	8185.0	8489.6	8646.8	8543.7	8406.1	8165.4	7959.0	7890.2
37.5°	7801.8	8081.9	8583.0	8995.7	9172.5	9162.7	9059.5	8799.2	8627.2	8568.2
40°	8288.2	8568.2	9025.1	9570.5	9899.7	9884.9	9826.0	9624.5	9369.1	9339.6
42.5°	8804.1	9035.0	9629.4	10253.4	10725.0	10675.9	10518.7	10282.9	10106.0	10066.7
45°	9305.2	9663.8	10214.1	11014.9	11368.6	11491.5	11304.8	10901.9	10700.5	10675.9
47.5°	9934.0	10219.0	10906.8	11624.1	12149.8	12169.5	11850.1	11476.7	11108.3	11186.9
50°	10494.1	10872.4	11570.1	12356.1	12985.0	12759.0	12351.2	11884.5	11619.2	11516.0
52.5°	11093.5	11555.3	12366.0	13166.8	13515.6	13289.6	12626.4	12105.6	11702.7	11658.5
55°	11968.0	12208.8	13270.0	13884.1	13997.1	13520.5	12542.8	11805.9	11285.1	11157.4
57.5°	12857.3	13137.3	14065.9	14596.5	14478.6	13392.8	12002.4	10862.6	10179.7	9997.9
60°	13756.3	14100.3	14881.4	15367.8	14758.6	12513.4	10474.5	9005.5	8209.6	8047.5
62.5°	14758.6	15205.7	15903.3	16075.3	13928.3	10774.2	8312.8	6499.9	5694.1	5423.9
65°	15647.8	16104.8	16964.5	15927.9	12164.5	8037.6	5374.8	3714.2	3119.7	2903.6
67.5°	16379.9	16895.7	17318.3	14095.3	8907.2	4706.6	2800.4	1955.4	1734.3	1655.7
70°	16959.6	17819.4	15844.4	10361.5	5089.8	2294.4	1513.2	1287.2	1257.7	1238.1
72.5°	16453.6	16340.6	11830.5	5979.1	2230.5	1262.6	1095.6	1061.2	1056.3	1061.2
75°	13456.7	12002.4	7074.7	2599.0	1120.2	913.8	908.9	894.2	918.7	918.7
77.5°	6529.4	5708.9	2957.6	1115.2	736.9	717.3	741.9	741.9	741.9	741.9
80°	1513.2	1675.3	1056.3	678.0	535.5	535.5	589.6	594.5	569.9	560.1
82.5°	515.9	687.8	579.7	427.4	353.7	398.0	447.1	456.9	378.3	383.2
85°	255.5	402.9	314.4	245.6	181.8	245.6	289.9	304.6	260.4	250.6
87.5°	117.9	176.9	117.9	83.5	63.9	88.4	83.5	68.8	39.3	39.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)