

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: P638474

Luminaire Tested: **IFLD-L-SA8B-750-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638474
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-750-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30683.3 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

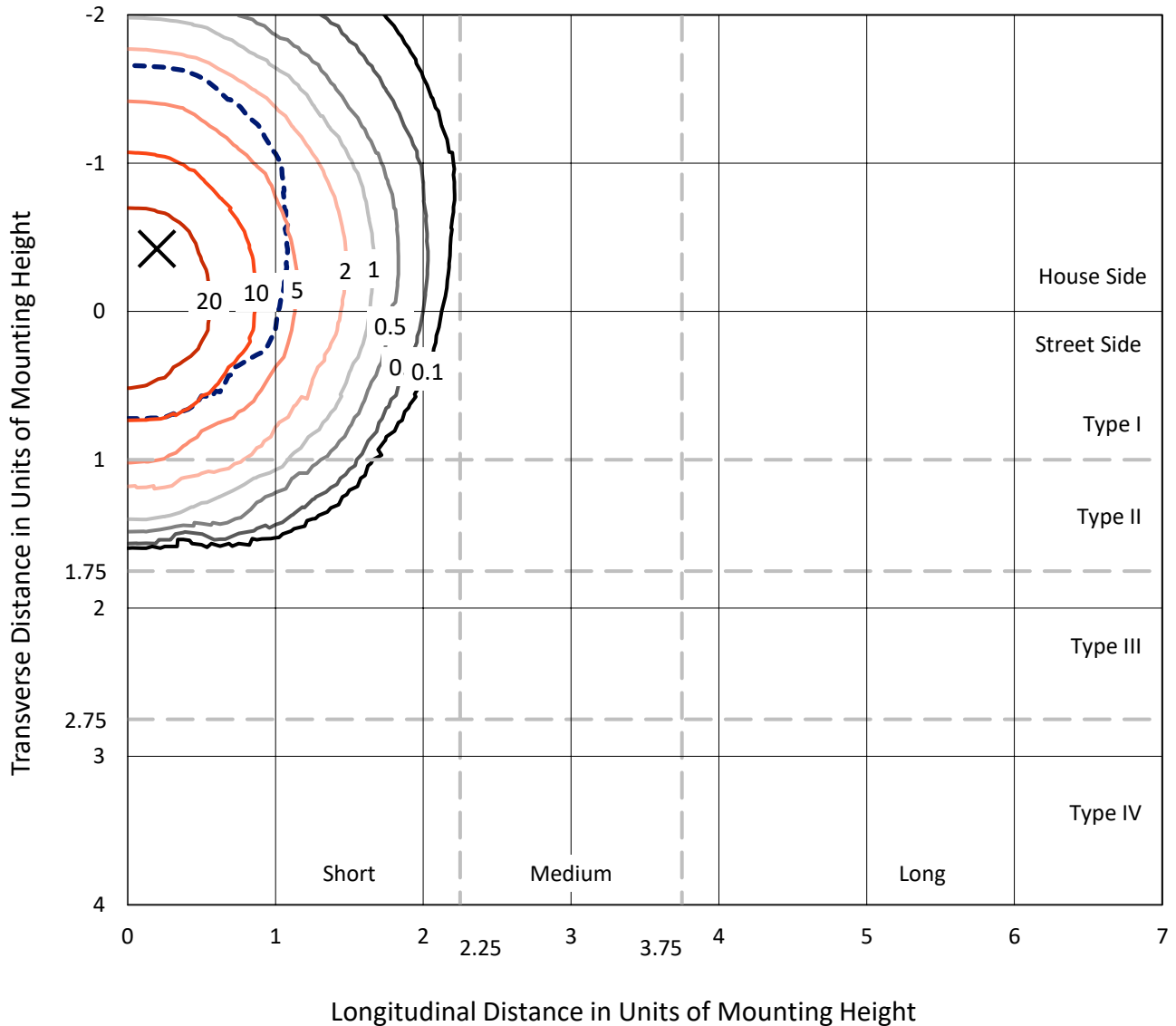
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

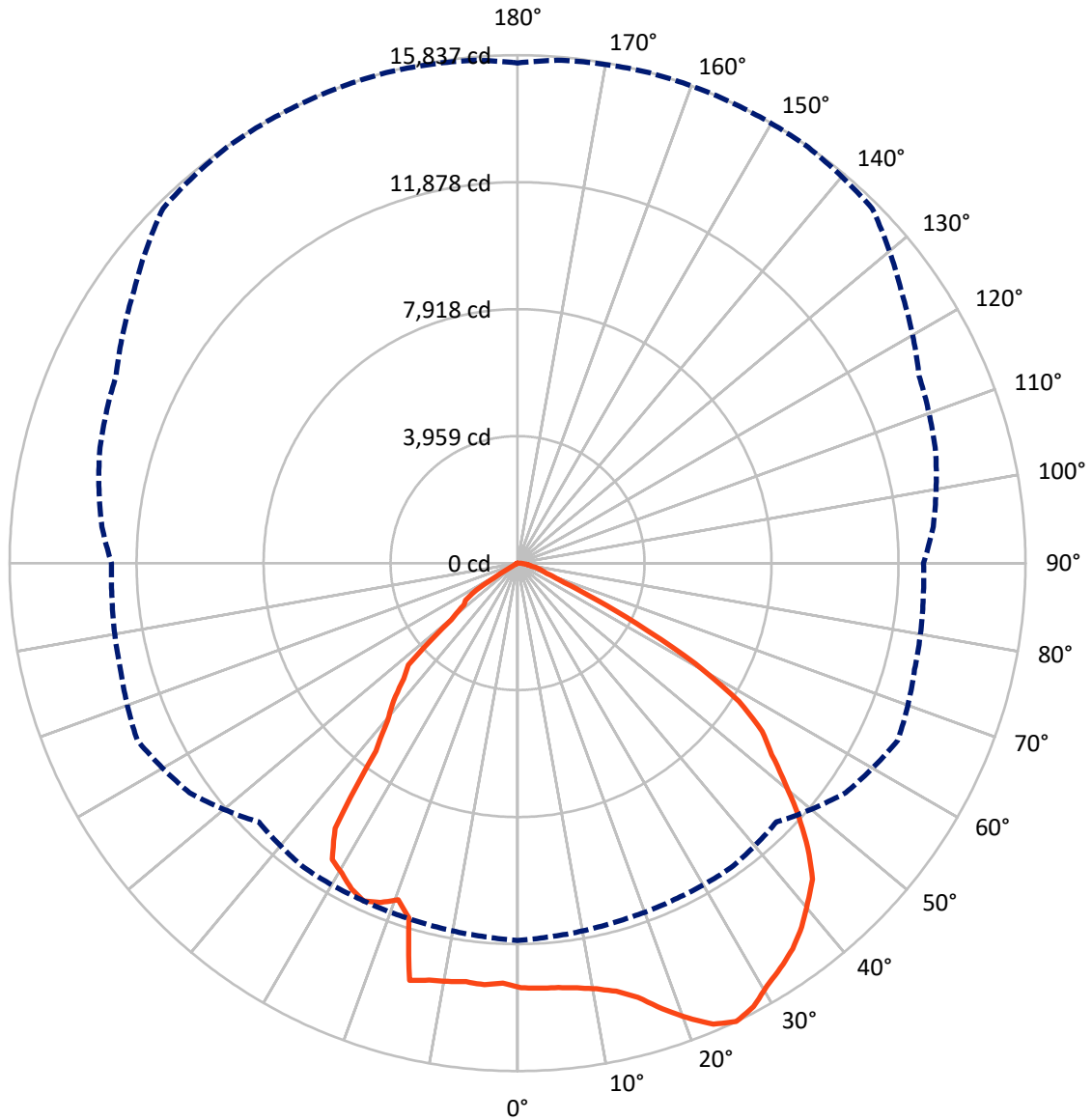
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 33.1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18996.1	0.0	18996.1
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	11687.2	0.0	11687.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	30683.3	0.0	30683.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1270.1	4.1
10°-20°	3878.3	12.6
20°-30°	6131.4	20.0
30°-40°	6925.9	22.6
40°-50°	6486.3	21.1
50°-60°	4471.8	14.6
60°-70°	1201.4	3.9
70°-80°	250.4	0.8
80°-90°	67.7	0.2
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°	30683.3	100.0
0°-180°	30683.3	100.0



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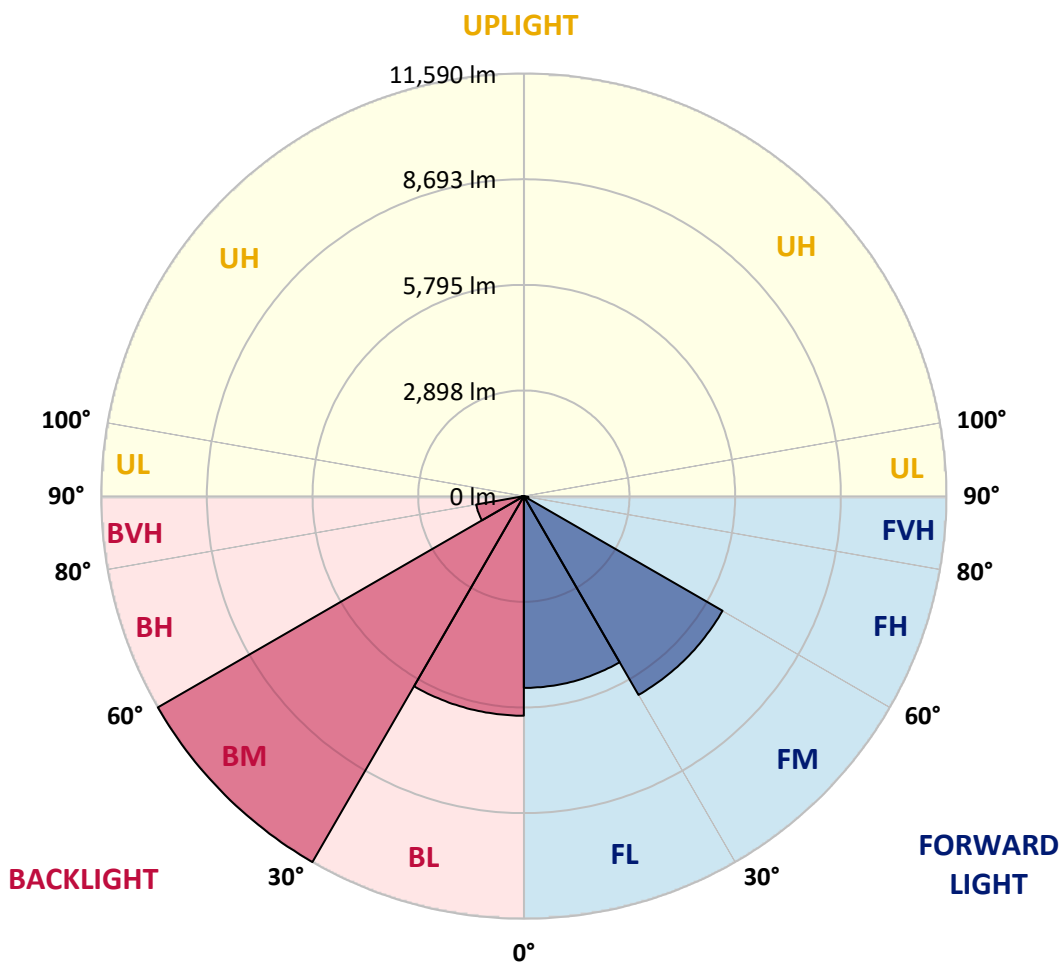
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5258.1	17.1			
FM	(30°-60°)	6293.8	20.5			
FH	(60°-80°)	126.1	0.4			G0/660
FVH	(80°-90°)	9.1	0.0			G0/10
BL	(0°-30°)	6021.7	19.6	B5		
BM	(30°-60°)	11590.2	37.8	B5		
BH	(60°-80°)	1325.7	4.3	B3/2500		G3/2500
BVH	(80°-90°)	58.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13239.3	13239.3	13239.3	13239.3	13239.3	13239.3	13239.3	13239.3	13239.3	13239.3
2.5°	13297.9	13212.3	13131.1	13104.0	13216.8	13338.5	13261.9	13266.4	13239.3	13288.9
5°	13397.1	13279.9	13225.8	13185.2	13203.2	13329.5	13221.3	13261.9	13216.8	13275.4
7.5°	13361.1	13279.9	13225.8	13149.1	13207.7	13356.6	13252.8	13257.4	13234.8	13288.9
10°	13338.5	13279.9	13212.3	13221.3	13288.9	13415.2	13334.0	13379.1	13347.5	13379.1
12.5°	13392.6	13329.5	13293.4	13293.4	13352.0	13496.3	13455.8	13496.3	13482.8	13509.9
15°	12883.1	12941.7	13284.4	13437.7	13555.0	13699.3	13681.2	13721.8	13730.8	13771.4
17.5°	10867.4	10808.8	10781.7	11570.9	13667.7	14114.1	14100.6	14096.1	14051.0	14019.4
20°	11133.5	11110.9	11079.4	11138.0	11372.5	14330.6	14420.8	13866.1	13703.8	13690.2
22.5°	11557.3	11521.3	11404.0	11408.5	11480.7	12459.2	13974.3	13469.3	13415.2	13383.6
25°	11764.8	11692.6	11597.9	11570.9	11593.4	11413.0	12481.8	13081.5	12815.4	12693.7
27.5°	11399.5	11404.0	11327.4	11399.5	11313.8	10502.2	10046.7	12323.9	12314.9	12260.8
30°	11124.5	11110.9	11020.7	11110.9	10520.2	9613.8	9419.9	11494.2	11399.5	11327.4
32.5°	10281.2	10290.2	10551.8	10903.5	9934.0	9217.0	8630.8	10267.7	11165.0	11124.5
35°	7354.7	7372.7	8301.6	10037.7	9045.7	8427.9	8382.8	8874.3	10795.3	10813.3
37.5°	7079.6	7079.6	7057.1	7341.1	8346.7	8107.7	8197.9	8148.3	9888.9	9934.0
40°	6881.2	6840.6	6809.0	6362.6	5803.5	7882.3	7945.4	7719.9	9347.8	9356.8
42.5°	6642.2	6597.1	6606.1	5780.9	5194.7	7323.1	7147.2	6845.1	8445.9	8454.9
45°	6204.8	6281.5	6335.6	5059.4	5014.3	5230.8	6592.6	6403.2	7837.2	8004.0
47.5°	3156.5	3224.2	4946.7	4653.6	4757.3	4649.1	5569.0	5573.5	6520.5	7075.1
50°	2863.4	2845.4	2849.9	2714.6	4392.1	3760.8	4026.8	5109.0	5221.8	6015.4
52.5°	2669.5	2665.0	2389.9	2123.9	2759.7	3309.8	2922.0	3697.6	3882.5	5095.5
55°	1975.1	2119.4	1884.9	1997.6	1727.1	2651.5	2637.9	3336.9	3400.0	4085.4
57.5°	18.0	22.5	54.1	1519.6	1195.0	1325.7	1821.8	2277.2	2389.9	3183.6
60°	4.5	9.0	22.5	45.1	775.6	816.2	1217.5	1316.7	1483.6	1898.4
62.5°	0.0	0.0	9.0	22.5	40.6	333.7	387.8	423.9	653.8	969.5
65°	0.0	0.0	4.5	13.5	22.5	54.1	94.7	198.4	284.1	351.7
67.5°	0.0	0.0	4.5	9.0	18.0	27.1	54.1	76.7	121.8	207.4
70°	0.0	0.0	4.5	9.0	13.5	22.5	36.1	54.1	72.1	103.7
72.5°	0.0	0.0	4.5	9.0	9.0	27.1	27.1	40.6	54.1	67.6
75°	0.0	0.0	4.5	4.5	9.0	18.0	27.1	31.6	36.1	54.1
77.5°	0.0	0.0	4.5	9.0	13.5	18.0	22.5	36.1	31.6	31.6
80°	0.0	0.0	4.5	13.5	13.5	22.5	27.1	36.1	22.5	22.5
82.5°	0.0	0.0	4.5	18.0	13.5	45.1	45.1	49.6	18.0	18.0
85°	0.0	0.0	13.5	9.0	27.1	45.1	40.6	27.1	22.5	13.5
87.5°	0.0	0.0	4.5	4.5	9.0	13.5	31.6	27.1	9.0	9.0
90°	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):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
13239.3	0°	13239.3	13239.3	13239.3	13239.3	13239.3	13239.3	13239.3	13239.3	13239.3
13158.1	2.5°	13338.5	13279.9	13401.6	13388.1	13329.5	13302.4	13270.9	13243.8	13045.4
13167.2	5°	13343.0	13252.8	13401.6	13374.6	13365.6	13320.5	13293.4	13334.0	13153.6
13203.2	7.5°	13343.0	13252.8	13415.2	13424.2	13410.7	13374.6	13370.1	13397.1	13248.3
13266.4	10°	13433.2	13397.1	13532.4	13545.9	13527.9	13518.9	13496.3	13478.3	13320.5
13482.8	12.5°	13622.6	13550.5	13703.8	13744.4	13730.8	13753.4	13699.3	13726.3	13564.0
13703.8	15°	13852.6	13857.1	13974.3	14064.5	14055.5	14127.6	14046.5	14118.6	14001.4
13956.3	17.5°	14204.3	14253.9	14420.8	14556.0	14605.6	14659.7	14605.6	14628.2	14461.3
13676.7	20°	13834.5	14019.4	14822.1	15070.1	15173.8	15223.4	15133.2	15160.3	14993.4
13334.0	22.5°	13500.9	13739.8	14452.3	15227.9	15548.1	15647.3	15615.7	15611.2	15548.1
12657.6	25°	13009.3	13491.8	13812.0	14632.7	15638.3	15818.6	15836.7	15832.2	15737.5
12242.8	27.5°	12405.1	12513.3	13343.0	13843.6	15007.0	15692.4	15665.3	15534.5	15408.3
11381.5	30°	11634.0	12125.5	12499.8	13297.9	14190.8	15304.6	15304.6	15205.4	15074.6
11074.8	32.5°	11241.7	11877.5	12224.7	12513.3	13275.4	14871.7	15052.1	14948.3	14844.6
10835.9	35°	11034.3	11129.0	11940.6	12202.2	12847.0	14037.5	14768.0	14664.3	14587.6
10200.0	37.5°	10578.8	10799.8	11178.6	11877.5	12075.9	13356.6	14389.2	14335.1	14244.9
9374.8	40°	9564.2	10155.0	10736.7	11399.5	11606.9	12481.8	13929.2	13951.8	13830.0
8495.5	42.5°	8964.5	9365.8	10276.7	10723.1	11282.3	11918.1	13482.8	13518.9	13433.2
8049.1	45°	8261.0	8707.5	9347.8	10159.5	10921.5	11142.5	12693.7	13072.5	13000.3
7160.8	47.5°	7616.2	7977.0	8761.6	9582.3	10425.5	10393.9	11787.3	12499.8	12400.6
6479.9	50°	6700.8	7332.1	7701.9	8454.9	9713.0	9798.7	10822.3	11827.9	11746.7
5505.9	52.5°	5650.2	6443.8	7151.8	7841.7	8991.5	9194.5	9925.0	11142.5	11088.4
4207.2	55°	4937.7	5514.9	6313.0	6867.7	8116.7	8657.9	9253.1	10488.6	10461.6
3458.6	57.5°	3512.7	4626.5	5284.9	6060.5	6718.9	7697.4	8139.3	9158.4	8905.9
1916.5	60°	2380.9	2904.0	3706.6	4540.9	4982.8	5961.3	6371.6	7187.8	7120.2
1145.4	62.5°	1258.1	1740.6	2313.3	2732.6	3052.8	4004.3	4175.6	5054.9	5032.4
459.9	65°	554.6	735.0	1253.6	1470.0	1799.2	2241.1	2389.9	2705.6	2628.9
225.5	67.5°	288.6	437.4	708.0	870.3	1095.8	1262.6	1384.4	1483.6	1546.7
148.8	70°	175.9	320.2	437.4	604.2	753.1	888.3	983.0	1118.3	1199.5
76.7	72.5°	130.8	202.9	302.1	464.5	545.6	703.5	798.1	897.4	969.5
63.1	75°	72.1	135.3	243.5	365.3	437.4	572.7	658.4	726.0	748.5
36.1	77.5°	45.1	103.7	202.9	284.1	342.7	464.5	441.9	505.0	559.2
27.1	80°	31.6	76.7	157.8	234.5	239.0	297.6	351.7	405.8	441.9
18.0	82.5°	22.5	63.1	117.2	180.4	157.8	230.0	275.1	315.7	230.0
13.5	85°	18.0	45.1	58.6	108.2	90.2	162.3	139.8	135.3	90.2
9.0	87.5°	13.5	22.5	40.6	49.6	36.1	36.1	45.1	54.1	45.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
13239.3
12910.1
13000.3
13077.0
13189.7
13419.7
13807.5
14317.0
14876.2
15345.2
15593.2
15309.1
15025.0
14758.9
14479.4
14154.7
13803.0
13424.2
13009.3
12472.7
11760.3
11124.5
10493.1
8878.8
7124.7
5036.9
2597.4
1546.7
1204.0
983.0
735.0
568.2
446.4
166.8
90.2
45.1
0.0

(END OF REPORT)