

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: P479396

Luminaire Tested: **IFLD-L-SA8B-750-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479396
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-750-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

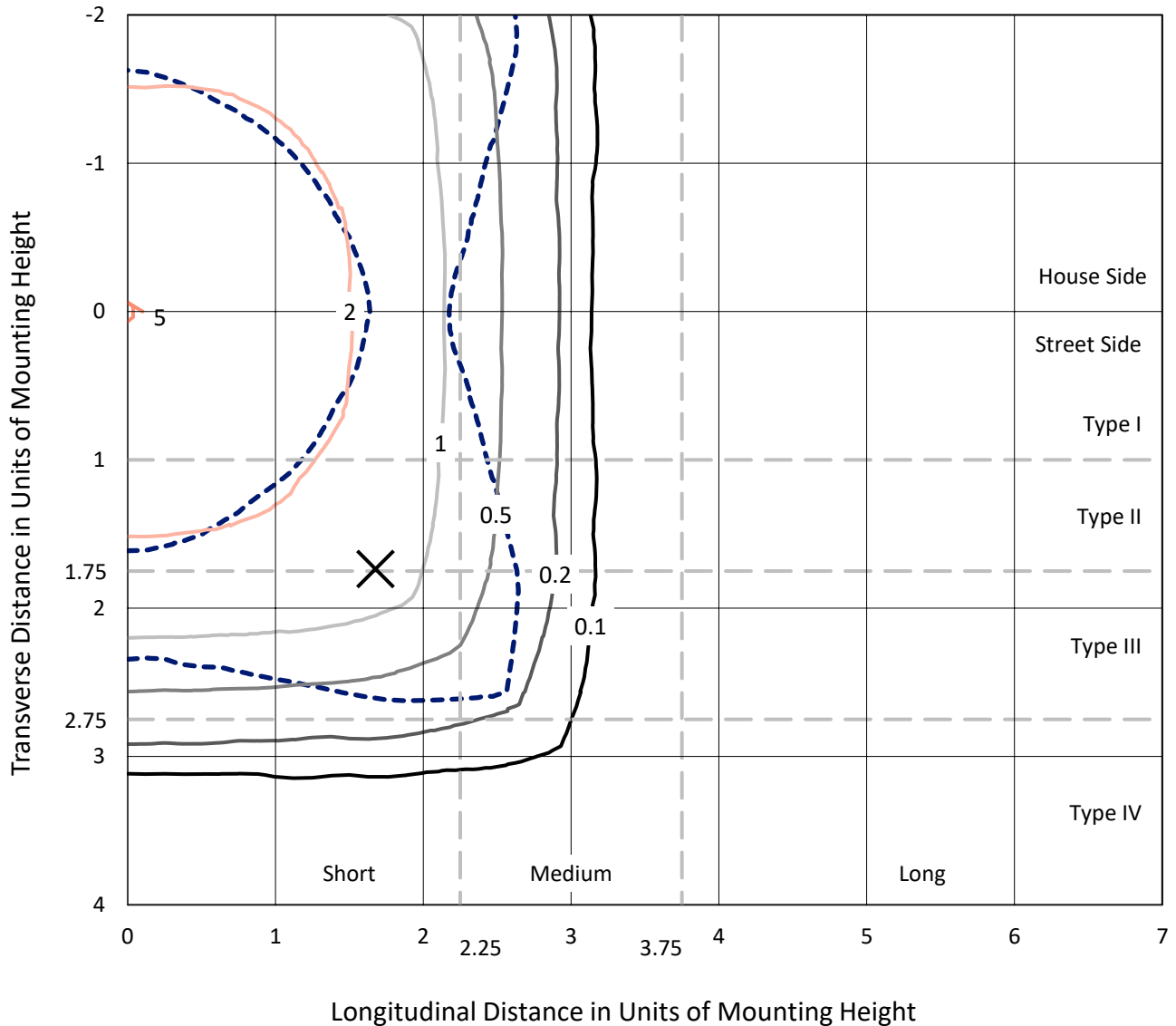
Lumens per Lamp: N/A
Luminaire Lumens: 42022.4 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

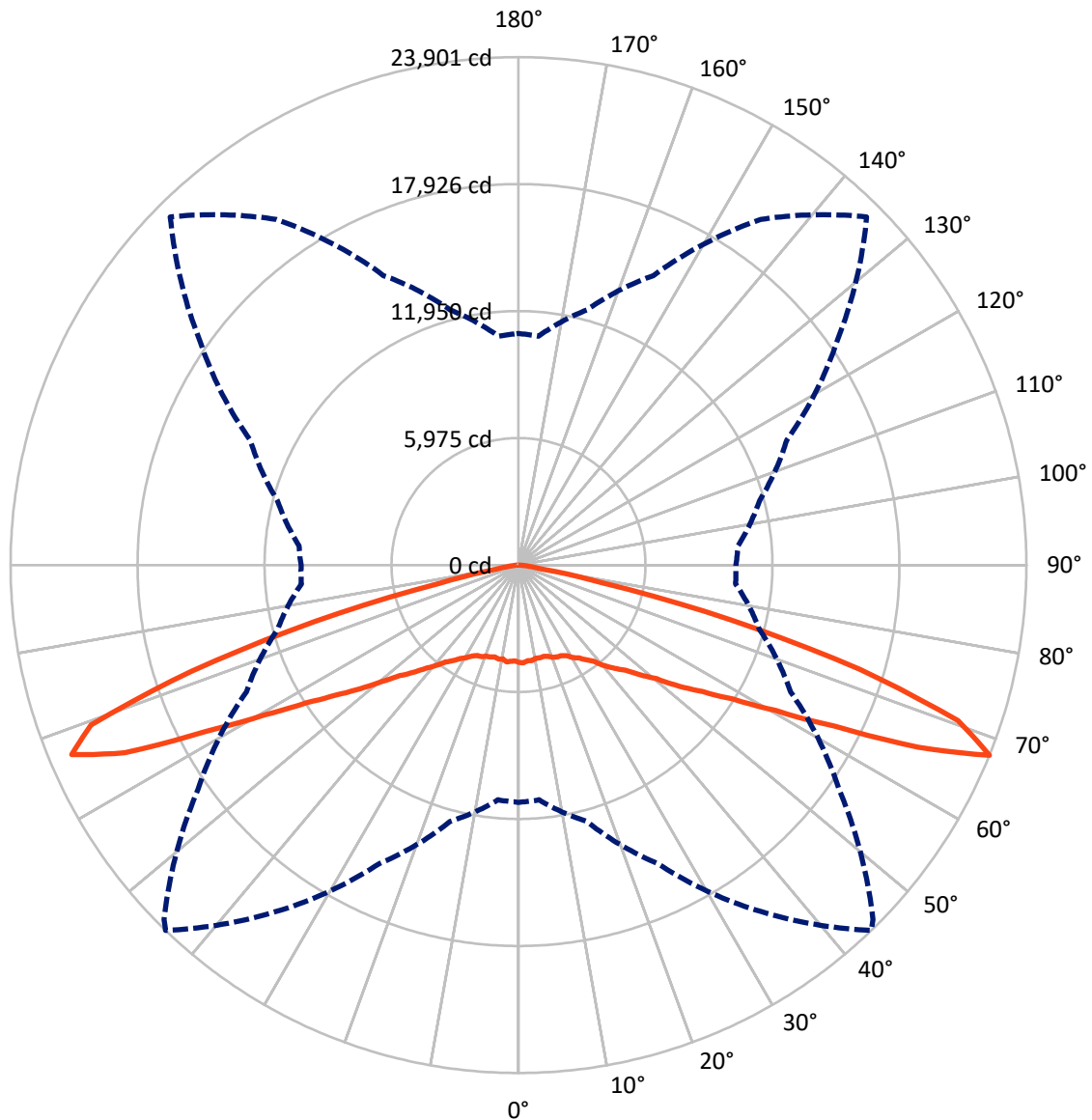
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20957.4	0.0	20957.4
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	21065.0	0.0	21065.0
	% Fixture	50.1	0.0	50.1
Total	Lumens	42022.4	0.0	42022.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.4	1.0
10°-20°	1269.0	3.0
20°-30°	2158.0	5.1
30°-40°	3421.6	8.1
40°-50°	5579.3	13.3
50°-60°	9528.6	22.7
60°-70°	14492.9	34.5
70°-80°	4885.0	11.6
80°-90°	253.6	0.6
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°	42022.4	100.0
0°-180°	42022.4	100.0

Coefficient of Utilization



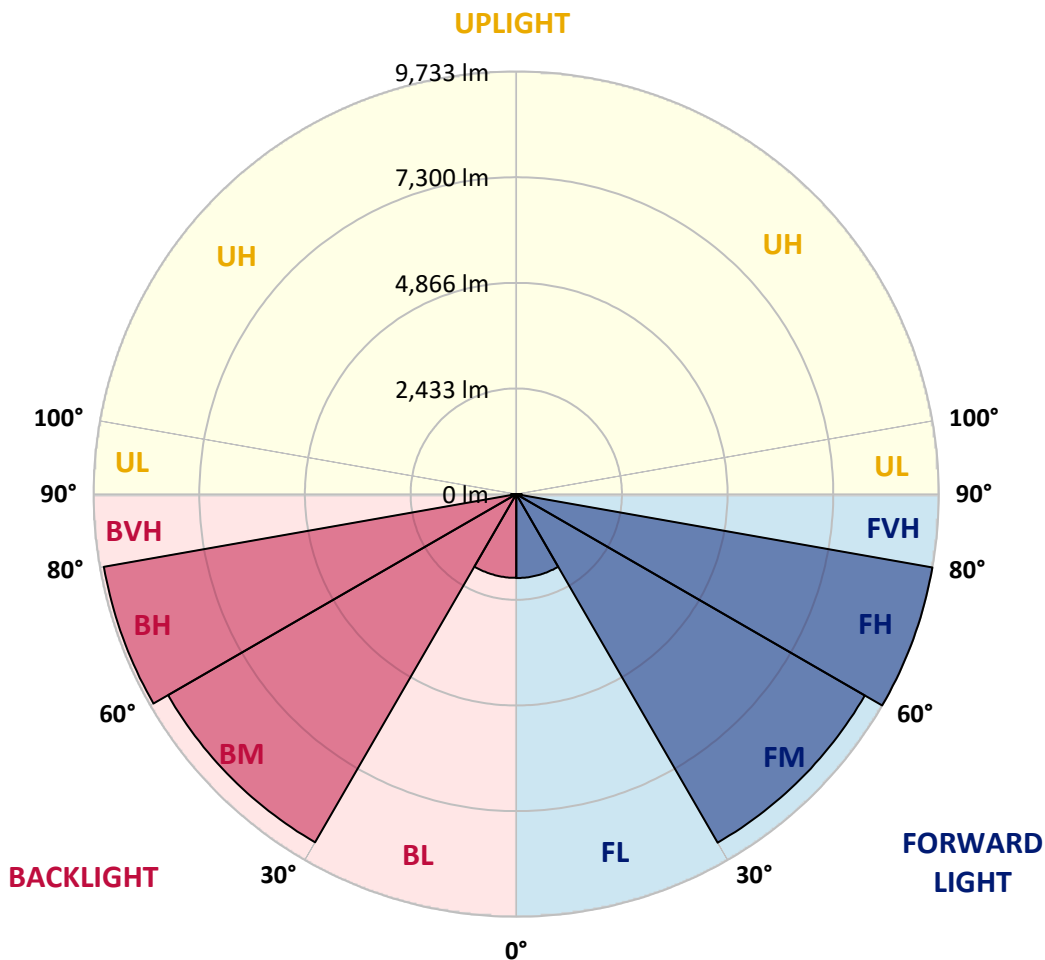
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1932.7	4.6			
FM (30°-60°)	9269.7	22.1			
FH (60°-80°)	9732.8	23.2			G4/12000
FVH (80°-90°)	129.7	0.3			G2/225
BL (0°-30°)	1928.7	4.6	B3/2500		
BM (30°-60°)	9259.7	22.0	B5		
BH (60°-80°)	9645.1	23.0	B5		G4/12000
BVH (80°-90°)	123.9	0.3			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4590.2	4590.2	4590.2	4590.2	4590.2	4590.2	4590.2	4590.2	4590.2	4590.2	4590.2
2.5°	4484.7	4537.5	4575.8	4571.0	4585.4	4599.8	4580.6	4609.4	4590.2	4623.8	4643.0
5°	4571.0	4556.6	4561.4	4532.7	4599.8	4523.1	4523.1	4561.4	4609.4	4551.8	4585.4
7.5°	4518.3	4508.7	4484.7	4527.9	4542.3	4542.3	4580.6	4508.7	4590.2	4609.4	4614.2
10°	4460.7	4408.0	4479.9	4523.1	4532.7	4455.9	4489.5	4508.7	4484.7	4508.7	4523.1
12.5°	4412.8	4441.5	4441.5	4441.5	4427.1	4479.9	4513.5	4508.7	4460.7	4503.9	4427.1
15°	4408.0	4393.6	4436.7	4475.1	4451.1	4460.7	4475.1	4518.3	4427.1	4446.3	4446.3
17.5°	4403.2	4422.3	4436.7	4431.9	4513.5	4513.5	4499.1	4470.3	4542.3	4503.9	4451.1
20°	4422.3	4408.0	4446.3	4460.7	4518.3	4633.4	4590.2	4566.2	4527.9	4479.9	4479.9
22.5°	4446.3	4436.7	4489.5	4551.8	4662.2	4690.9	4686.1	4657.4	4590.2	4532.7	4523.1
25°	4532.7	4446.3	4503.9	4623.8	4662.2	4719.7	4758.1	4719.7	4628.6	4643.0	4556.6
27.5°	4662.2	4647.8	4724.5	4806.1	4772.5	4825.2	4791.7	4820.5	4825.2	4753.3	4667.0
30°	4815.7	4772.5	4820.5	4978.7	4993.1	5050.7	4993.1	4916.4	4940.4	4878.0	4834.8
32.5°	5036.3	5021.9	5113.0	5218.6	5237.7	5209.0	5180.2	5223.4	5122.6	5074.7	4997.9
35°	5180.2	5242.5	5352.9	5434.4	5496.8	5468.0	5482.4	5439.2	5463.2	5362.5	5328.9
37.5°	5607.1	5583.1	5607.1	5746.2	5760.6	5746.2	5760.6	5808.5	5774.9	5688.6	5602.3
40°	6010.0	5971.6	6029.2	6187.4	6177.9	6225.8	6129.9	6182.6	6182.6	6019.6	5986.0
42.5°	6312.2	6441.7	6508.8	6638.3	6686.3	6643.1	6623.9	6633.5	6739.0	6547.2	6475.2
45°	6935.7	6930.9	7132.3	7204.3	7070.0	7060.4	7022.0	7137.1	7209.1	7098.8	7070.0
47.5°	7612.0	7645.6	7760.7	7789.5	7871.0	7722.3	7722.3	7736.7	7990.9	7731.9	7597.6
50°	8221.1	8264.3	8494.5	8720.0	8566.5	8408.2	8470.6	8547.3	8686.4	8441.8	8326.7
52.5°	8959.8	9194.8	9348.3	9468.2	9578.5	9468.2	9324.3	9410.7	9684.1	9357.9	9214.0
55°	10024.6	10211.7	10355.6	10576.2	10667.3	10518.7	10504.3	10494.7	10648.2	10302.8	10106.2
57.5°	11214.1	11137.4	11367.6	11708.2	12039.1	11895.2	11852.1	11861.7	11900.0	11410.8	11262.1
60°	12691.5	12777.8	13051.2	13348.6	13698.7	13900.2	13617.2	13454.1	13487.7	12821.0	12590.7
62.5°	13535.6	13727.5	14346.2	15367.9	16073.0	16701.3	16744.5	15684.5	14974.6	13679.5	12701.0
65°	13127.9	13099.2	14264.7	16154.5	18826.1	20653.6	20380.2	17809.3	15329.5	13271.8	11957.6
67.5°	11166.2	11089.4	12499.6	15497.4	19910.1	23900.8	23589.0	18408.8	14130.4	11741.8	10254.8
70°	7194.7	7175.5	8705.6	11813.7	17775.7	21943.8	22059.0	16720.5	11501.9	8600.1	7127.6
72.5°	2614.1	2772.4	3659.7	6350.5	12072.7	16787.6	16859.6	12379.7	6614.3	3976.3	2930.6
75°	964.1	992.9	1155.9	2062.5	5501.5	10307.6	10576.2	6005.2	2350.3	1295.0	1055.2
77.5°	556.4	561.2	618.7	767.4	1630.8	4024.2	4187.3	1822.7	911.3	690.7	637.9
80°	378.9	374.1	436.5	498.8	652.3	1141.6	1213.5	762.6	575.6	479.6	402.9
82.5°	220.6	235.0	321.4	354.9	398.1	503.6	513.2	474.9	431.7	354.9	263.8
85°	134.3	110.3	177.5	196.7	230.2	225.4	225.4	259.0	278.2	249.4	148.7
87.5°	33.6	33.6	43.2	48.0	62.4	48.0	52.8	100.7	134.3	124.7	76.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4590.2	4590.2	4590.2	4590.2	4590.2	4590.2	4590.2	4590.2	4590.2	4590.2	4590.2
2.5°	4599.8	4585.4	4595.0	4647.8	4614.2	4513.5	4537.5	4590.2	4547.1	4523.1	4518.3
5°	4580.6	4609.4	4575.8	4585.4	4619.0	4537.5	4551.8	4619.0	4590.2	4599.8	4547.1
7.5°	4585.4	4599.8	4571.0	4527.9	4527.9	4595.0	4556.6	4566.2	4523.1	4595.0	4499.1
10°	4556.6	4518.3	4484.7	4508.7	4499.1	4479.9	4465.5	4494.3	4451.1	4513.5	4446.3
12.5°	4470.3	4479.9	4470.3	4460.7	4479.9	4527.9	4451.1	4460.7	4393.6	4403.2	4436.7
15°	4436.7	4465.5	4455.9	4508.7	4532.7	4460.7	4518.3	4460.7	4408.0	4379.2	4431.9
17.5°	4451.1	4494.3	4479.9	4518.3	4475.1	4527.9	4537.5	4513.5	4451.1	4427.1	4451.1
20°	4465.5	4451.1	4470.3	4537.5	4599.8	4547.1	4547.1	4532.7	4475.1	4441.5	4441.5
22.5°	4499.1	4475.1	4503.9	4556.6	4575.8	4657.4	4585.4	4551.8	4455.9	4369.6	4451.1
25°	4566.2	4580.6	4599.8	4580.6	4686.1	4676.6	4667.0	4643.0	4494.3	4499.1	4484.7
27.5°	4695.7	4614.2	4638.2	4753.3	4767.7	4806.1	4758.1	4801.3	4643.0	4647.8	4551.8
30°	4854.0	4767.7	4844.4	4945.2	4940.4	5012.3	4988.3	4997.9	4887.6	4825.2	4695.7
32.5°	5026.7	5017.1	5065.1	5127.4	5151.4	5189.8	5185.0	5185.0	5117.8	4954.8	4978.7
35°	5218.6	5285.7	5343.3	5410.4	5420.0	5468.0	5400.8	5410.4	5343.3	5223.4	5261.7
37.5°	5597.5	5592.7	5655.0	5736.6	5746.2	5707.8	5760.6	5736.6	5645.4	5563.9	5501.5
40°	6038.8	5942.8	6000.4	6192.2	6206.6	6139.5	6134.7	6129.9	6062.7	5885.3	5846.9
42.5°	6422.5	6547.2	6537.6	6599.9	6556.8	6523.2	6643.1	6576.0	6523.2	6336.1	6302.6
45°	6916.5	6954.9	7079.6	7281.0	7074.8	7074.8	7156.3	7103.6	7074.8	6935.7	6806.2
47.5°	7530.5	7564.0	7813.4	7827.8	7693.5	7602.4	7856.6	7866.2	7746.3	7640.8	7482.5
50°	8249.9	8264.3	8489.7	8720.0	8571.3	8398.6	8657.6	8758.4	8489.7	8345.9	8149.2
52.5°	9041.3	8998.2	9185.2	9616.9	9473.0	9420.3	9698.5	9722.4	9357.9	9132.5	9185.2
55°	9952.7	9895.1	10403.5	10696.1	10605.0	10509.1	10633.8	10691.3	10398.7	10029.4	10158.9
57.5°	11132.6	11161.4	11415.6	11703.4	11852.1	11876.1	11933.6	11876.1	11578.7	11204.5	11084.6
60°	12312.5	12398.9	12892.9	13434.9	13482.9	13905.0	13828.2	13540.4	13118.3	12585.9	12609.9
62.5°	12749.0	12677.1	13473.3	14797.1	15924.3	16696.5	16356.0	15334.3	14355.8	13386.9	13458.9
65°	11871.3	12048.7	13132.7	15204.8	17651.0	20706.4	18893.3	16068.2	14092.0	12840.1	12701.0
67.5°	10230.9	10365.2	11741.8	13928.9	18269.7	23171.7	19852.6	15032.1	12427.6	10806.4	10892.8
70°	7127.6	7194.7	8542.5	11410.8	16567.0	21867.1	17910.0	11545.1	8580.9	6839.8	6935.7
72.5°	2868.3	3031.4	3918.7	6873.3	12231.0	16615.0	12058.3	6057.9	3559.0	2647.7	2403.0
75°	1060.0	1064.8	1251.9	2364.7	5808.5	10441.9	5439.2	1947.4	1136.8	930.5	887.3
77.5°	613.9	609.2	652.3	853.8	1683.6	4077.0	1544.5	762.6	618.7	556.4	532.4
80°	383.7	378.9	446.1	566.0	738.7	1117.6	652.3	474.9	417.3	359.7	359.7
82.5°	244.6	249.4	350.1	417.3	450.9	494.0	378.9	335.8	311.8	206.2	201.5
85°	158.3	143.9	244.6	278.2	249.4	220.6	211.0	177.5	163.1	100.7	110.3
87.5°	71.9	76.7	124.7	139.1	91.1	52.8	52.8	38.4	38.4	24.0	24.0
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)