

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: P480121

Luminaire Tested: **IFLD-S-SA6A-740-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480121
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-740-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

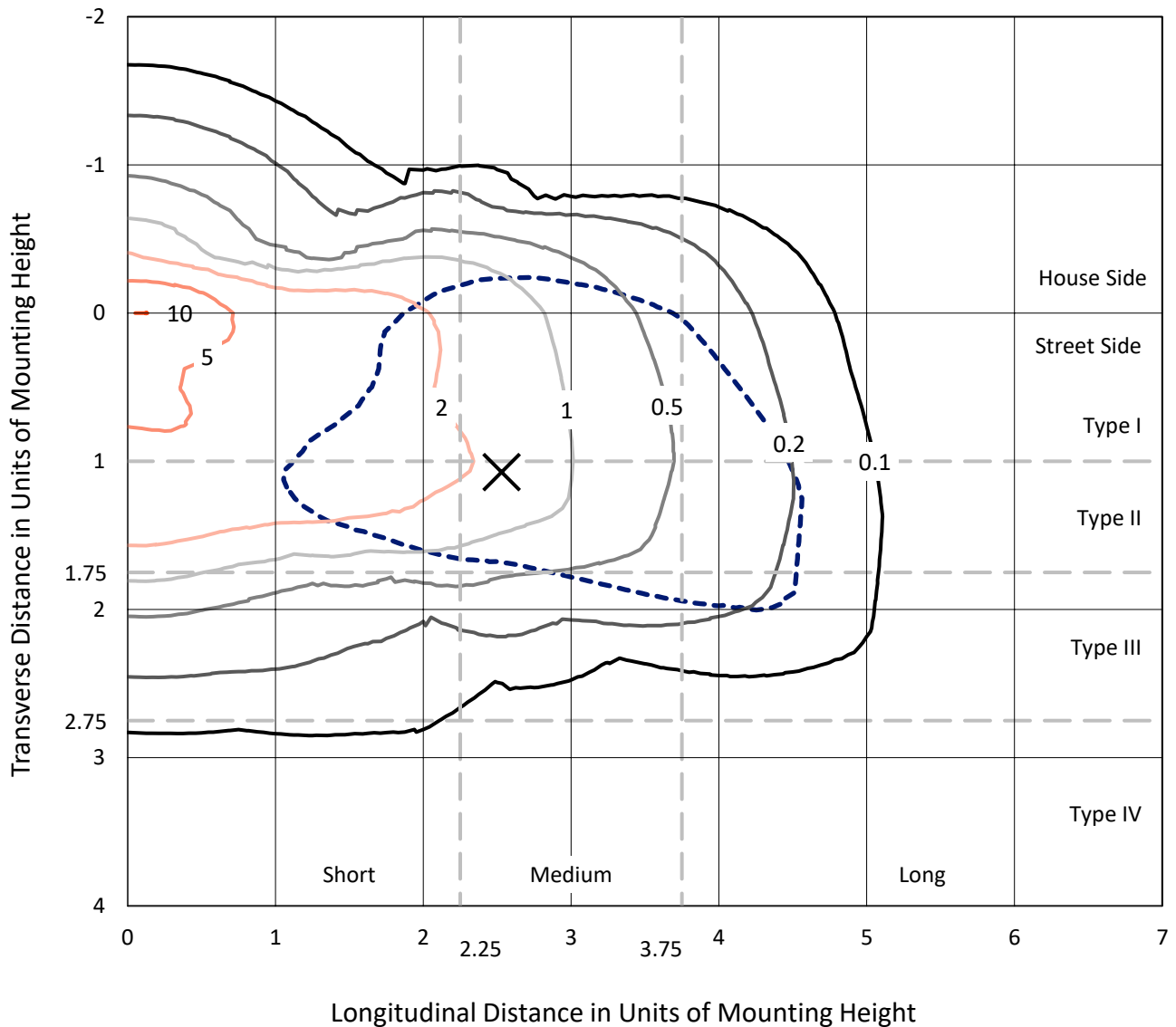
Lumens per Lamp: N/A
Luminaire Lumens: 26910.5 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 189.6
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

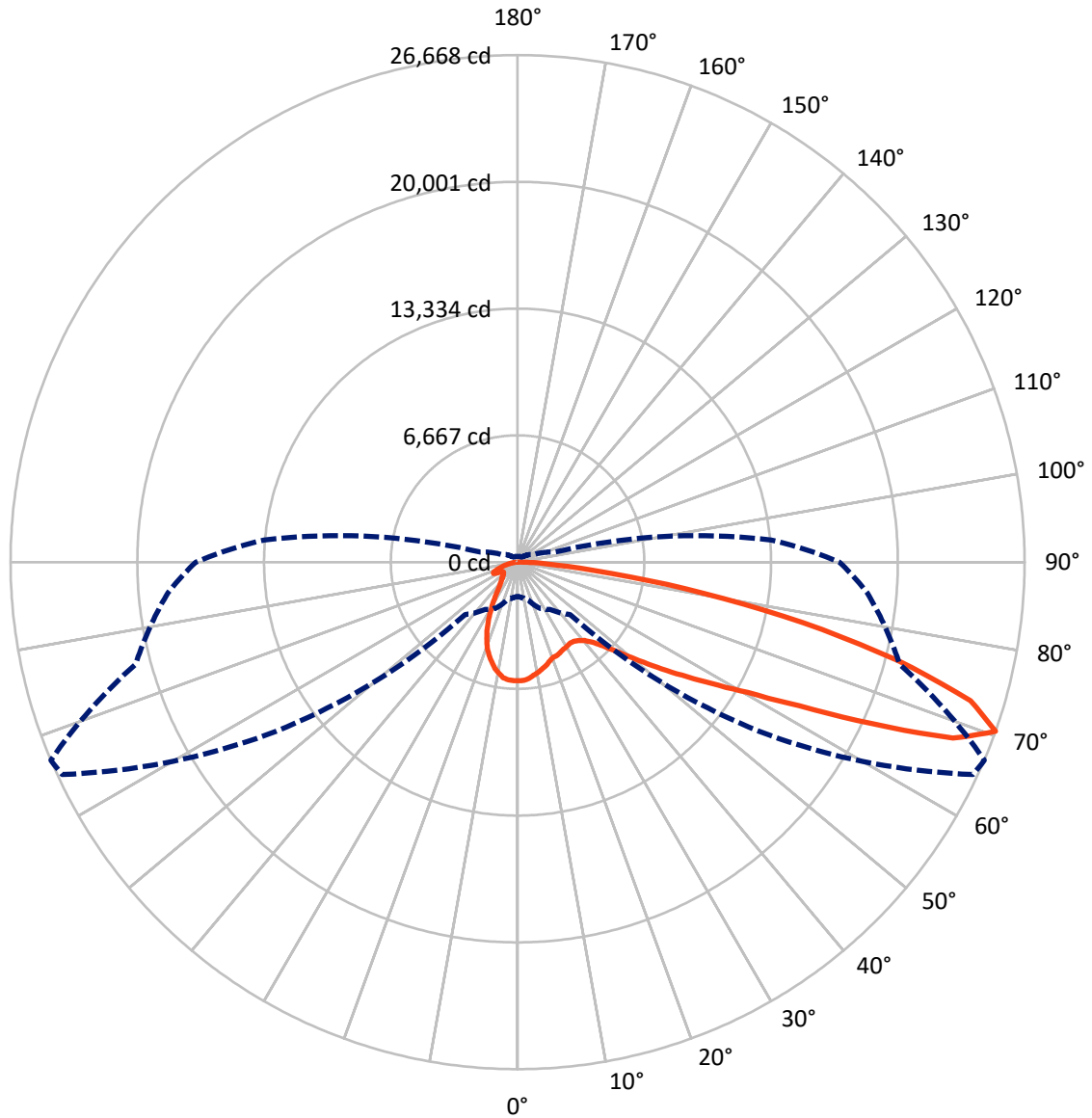
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5241.1	0.0	5241.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	21669.4	0.0	21669.4
	% Fixture	80.5	0.0	80.5
Total	Lumens	26910.5	0.0	26910.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.5	2.0
10°-20°	1301.8	4.8
20°-30°	1758.0	6.5
30°-40°	2352.3	8.7
40°-50°	3459.1	12.9
50°-60°	5391.8	20.0
60°-70°	6641.8	24.7
70°-80°	4693.0	17.4
80°-90°	769.2	2.9
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°	26910.5	100.0
0°-180°	26910.5	100.0

Coefficient of Utilization



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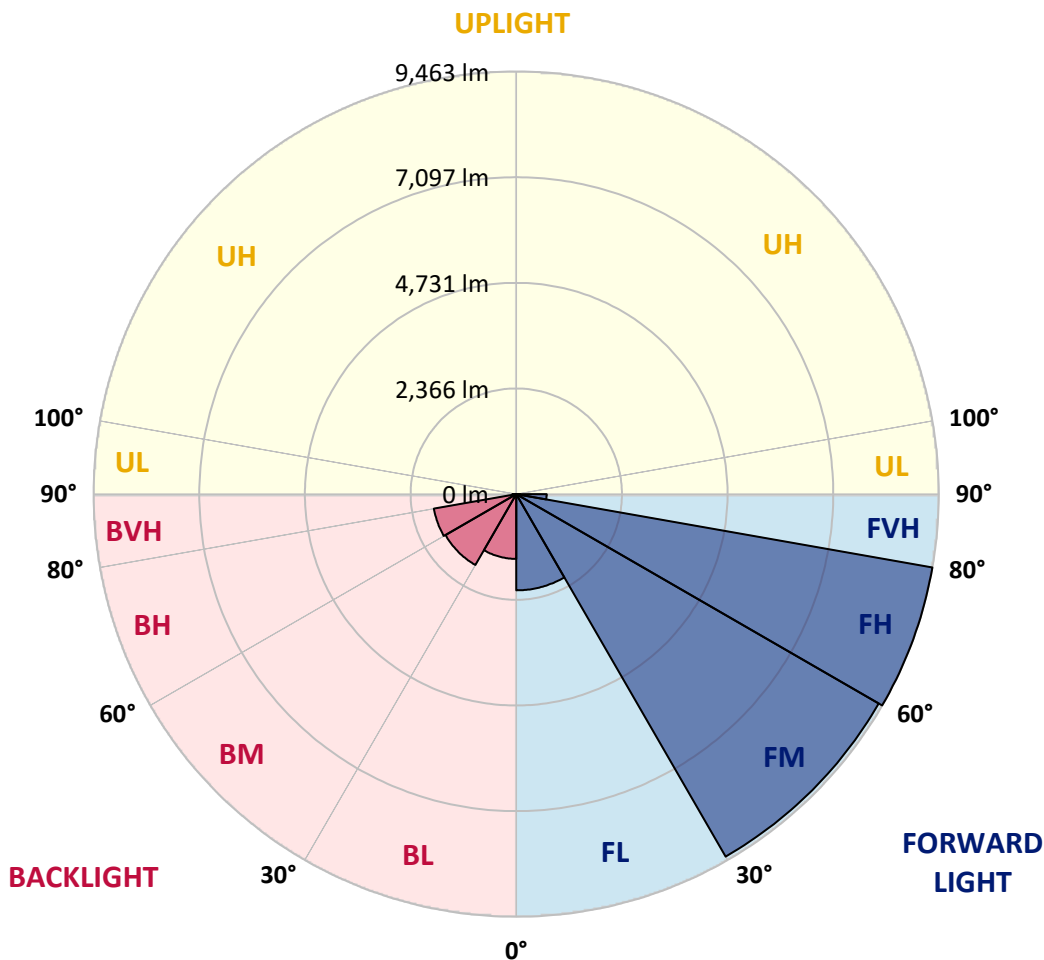
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2154.0	8.0			
FM (30°-60°)	9372.4	34.8			
FH (60°-80°)	9462.6	35.2			G4/12000
FVH (80°-90°)	680.5	2.5			G4/750
BL (0°-30°)	1449.3	5.4	B3/2500		
BM (30°-60°)	1830.8	6.8	B2/2500		
BH (60°-80°)	1872.2	7.0	B3/2500		G3/2500
BVH (80°-90°)	88.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6229.7	6229.7	6229.7	6229.7	6229.7	6229.7	6229.7	6229.7	6229.7	6229.7	6229.7
2.5°	5800.7	5866.2	5890.1	5925.8	6018.2	6086.7	6128.4	6176.1	6232.7	6280.4	6310.1
5°	5395.5	5431.3	5487.9	5526.6	5642.8	5827.5	5952.6	6155.2	6149.3	6223.7	6337.0
7.5°	5002.2	5038.0	5064.8	5142.3	5309.1	5475.9	5705.3	6033.1	6009.2	6182.0	6357.8
10°	4757.9	4731.1	4740.1	4871.1	5002.2	5189.9	5478.9	5812.6	5899.0	6167.1	6417.4
12.5°	4528.5	4498.7	4570.2	4653.7	4814.5	4984.4	5330.0	5630.9	5762.0	6113.5	6444.2
15°	4385.5	4364.7	4454.0	4489.8	4680.5	4883.1	5127.4	5493.8	5636.8	6048.0	6402.5
17.5°	4305.1	4323.0	4355.7	4433.2	4555.3	4728.1	4996.3	5401.5	5464.0	5967.5	6393.6
20°	4320.0	4340.8	4343.8	4376.6	4460.0	4594.1	4868.2	5303.1	5344.9	5952.6	6417.4
22.5°	4439.1	4409.4	4421.3	4400.4	4424.3	4528.5	4769.8	5172.1	5332.9	5827.5	6366.8
25°	4617.9	4576.2	4570.2	4498.7	4454.0	4483.8	4752.0	5139.3	5243.6	5788.8	6363.8
27.5°	4933.7	4871.1	4871.1	4763.9	4582.2	4534.5	4701.3	5085.7	5178.0	5753.0	6295.2
30°	5237.6	5237.6	5240.6	5088.6	4886.0	4650.7	4722.2	5064.8	5124.4	5645.8	6202.9
32.5°	5607.0	5598.1	5583.2	5508.7	5195.9	4844.3	4823.5	5038.0	5067.8	5610.0	6176.1
35°	5967.5	5943.7	6059.9	5994.3	5675.6	5222.7	4927.8	5049.9	5115.4	5556.4	6092.7
37.5°	6238.6	6253.5	6494.9	6536.6	6262.5	5651.7	5222.7	5169.1	5231.6	5633.8	6092.7
40°	6590.2	6649.8	6876.2	7016.2	6849.4	6217.8	5690.5	5368.7	5413.4	5806.6	6223.7
42.5°	7052.0	7102.6	7391.6	7573.4	7525.7	6938.8	6152.2	5785.8	5750.0	6095.6	6420.4
45°	7662.7	7671.7	7963.7	8213.9	8312.2	7692.5	6885.1	6313.1	6283.3	6593.2	6780.9
47.5°	8389.7	8380.8	8562.5	8830.6	9095.8	8592.3	7728.3	7114.6	7007.3	7305.2	7379.7
50°	9092.8	9054.1	9095.8	9438.4	9947.9	9718.5	8753.2	8094.7	7987.5	8151.3	8279.5
52.5°	9480.1	9527.8	9414.6	9867.4	10853.6	11050.2	10111.7	9265.6	9173.2	9253.7	9477.1
55°	9209.0	9307.3	9232.8	9661.8	11249.8	12673.9	11869.5	10621.2	10502.0	10472.2	10838.7
57.5°	8056.0	8234.8	8249.7	8928.9	11112.8	13931.2	14342.3	12221.1	12042.3	11738.4	12116.8
60°	6185.0	6363.8	6500.8	7305.2	9938.9	14682.0	17208.4	14497.2	13907.3	13120.8	13347.2
62.5°	4334.9	4457.0	4594.1	5088.6	7662.7	14241.0	19687.2	17703.0	16615.5	14577.7	14860.7
65°	3158.1	3253.4	3393.4	3685.4	4707.3	11783.1	20837.2	21510.5	20479.7	16430.8	16395.1
67.5°	2377.5	2437.1	2621.8	3089.5	3262.3	7278.4	19645.5	25532.5	24698.3	18489.5	17628.5
70°	1799.5	1850.1	2022.9	2663.5	3047.8	3902.9	15498.3	26429.3	26667.7	20798.4	18456.7
72.5°	1239.4	1296.0	1489.6	2219.6	2901.8	3095.5	9727.4	24010.1	24912.9	21748.8	17568.9
75°	759.7	798.5	911.7	1683.3	2881.0	3027.0	5353.8	19675.3	20631.6	20095.3	15370.2
77.5°	536.3	533.3	554.1	986.1	2496.6	3044.8	3301.1	14416.8	15346.3	14810.1	10430.5
80°	390.3	393.3	414.1	589.9	1695.2	3095.5	2600.9	9655.9	9933.0	7722.3	4114.4
82.5°	235.4	247.3	297.9	399.2	1018.9	2794.6	2404.3	5365.7	5020.1	2478.8	1132.1
85°	125.1	125.1	175.8	253.2	542.2	2085.5	2314.9	2553.3	2139.1	768.7	420.1
87.5°	29.8	29.8	50.6	101.3	217.5	998.1	1579.0	1015.9	813.3	259.2	172.8
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°	6229.7	6229.7	6229.7	6229.7	6229.7	6229.7	6229.7	6229.7	6229.7	6229.7	6229.7
2.5°	6298.2	6262.5	6307.2	6217.8	6146.3	6149.3	6039.0	6033.1	6018.2	5940.7	5967.5
5°	6369.7	6339.9	6289.3	6191.0	6033.1	5875.2	5779.8	5657.7	5607.0	5580.2	5592.1
7.5°	6438.3	6384.6	6238.6	6101.6	5857.3	5559.4	5386.6	5222.7	5014.2	4990.3	4948.6
10°	6456.1	6342.9	6155.2	5863.2	5538.5	5207.8	4814.5	4510.7	4349.8	4224.6	4177.0
12.5°	6429.3	6381.6	6021.2	5645.8	5154.2	4635.8	4177.0	3748.0	3450.0	3295.1	3253.4
15°	6426.3	6342.9	5872.2	5315.1	4686.4	4010.1	3357.7	2842.2	2529.4	2401.3	2401.3
17.5°	6429.3	6229.7	5696.4	4981.4	4135.3	3220.6	2502.6	2079.5	1906.7	1888.9	1903.8
20°	6369.7	6146.3	5511.7	4588.1	3444.1	2419.2	1817.4	1644.6	1644.6	1668.4	1677.3
22.5°	6316.1	6021.2	5219.7	4102.5	2741.0	1751.8	1477.7	1427.1	1483.7	1525.4	1543.3
25°	6241.6	5916.9	4921.8	3599.0	2085.5	1412.2	1284.1	1296.0	1349.6	1424.1	1418.1
27.5°	6134.4	5735.1	4567.3	3015.0	1552.2	1218.5	1185.8	1191.7	1248.3	1281.1	1275.1
30°	6012.2	5550.4	4239.5	2434.1	1230.4	1117.2	1114.3	1129.2	1138.1	1156.0	1153.0
32.5°	5857.3	5306.1	3891.0	1891.9	1108.3	1060.6	1048.7	1039.8	1048.7	1045.7	1036.8
35°	5747.1	5175.0	3536.4	1442.0	1039.8	1010.0	1001.0	986.1	974.2	956.4	953.4
37.5°	5717.3	5043.9	3164.0	1176.8	986.1	971.2	941.5	914.6	899.7	890.8	884.9
40°	5699.4	4957.5	2800.5	1033.8	941.5	926.6	890.8	855.1	840.2	831.2	834.2
42.5°	5762.0	4909.9	2431.1	962.3	902.7	875.9	837.2	795.5	792.5	786.5	795.5
45°	5982.4	4969.5	2088.5	911.7	864.0	819.3	768.7	747.8	744.8	738.9	744.8
47.5°	6482.9	5118.4	1796.5	878.9	822.3	783.6	729.9	700.1	697.2	694.2	694.2
50°	7174.1	5577.2	1552.2	840.2	795.5	741.8	691.2	658.4	652.5	640.5	640.5
52.5°	8258.6	6348.9	1406.2	819.3	747.8	703.1	649.5	613.7	598.8	586.9	586.9
55°	9480.1	7305.2	1379.4	783.6	697.2	655.4	607.8	572.0	557.1	542.2	536.3
57.5°	10871.4	8571.4	1570.1	759.7	661.4	607.8	554.1	521.4	509.5	494.6	488.6
60°	12167.4	9834.6	2163.0	724.0	628.6	563.1	509.5	476.7	461.8	446.9	446.9
62.5°	13666.0	11398.8	3167.0	724.0	598.8	515.4	461.8	438.0	429.0	414.1	411.1
65°	15438.7	13016.5	3899.9	768.7	589.9	473.7	417.1	393.3	384.3	375.4	372.4
67.5°	16788.3	13946.1	3354.7	887.8	628.6	438.0	372.4	357.5	351.6	342.6	336.7
70°	16931.3	13380.0	2022.9	959.3	667.4	402.2	333.7	318.8	318.8	309.8	303.9
72.5°	15647.3	11872.5	1361.5	855.1	604.8	360.5	295.0	283.0	277.1	271.1	268.1
75°	13094.0	10070.0	1075.5	682.3	464.8	297.9	256.2	244.3	235.4	232.4	226.4
77.5°	8794.9	6545.5	795.5	533.3	342.6	241.3	214.5	202.6	193.7	190.7	181.7
80°	3378.5	2493.7	512.4	387.3	241.3	190.7	169.8	157.9	151.9	143.0	137.0
82.5°	995.1	807.4	286.0	238.3	154.9	131.1	122.2	113.2	104.3	95.3	92.4
85°	411.1	369.4	175.8	125.1	95.3	77.5	71.5	62.6	53.6	47.7	41.7
87.5°	190.7	157.9	80.4	47.7	32.8	17.9	8.9	3.0	0.0	0.0	0.0
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)