

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: P480363

Luminaire Tested: **IFLD-M-SA4D-722-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480363
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-722-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

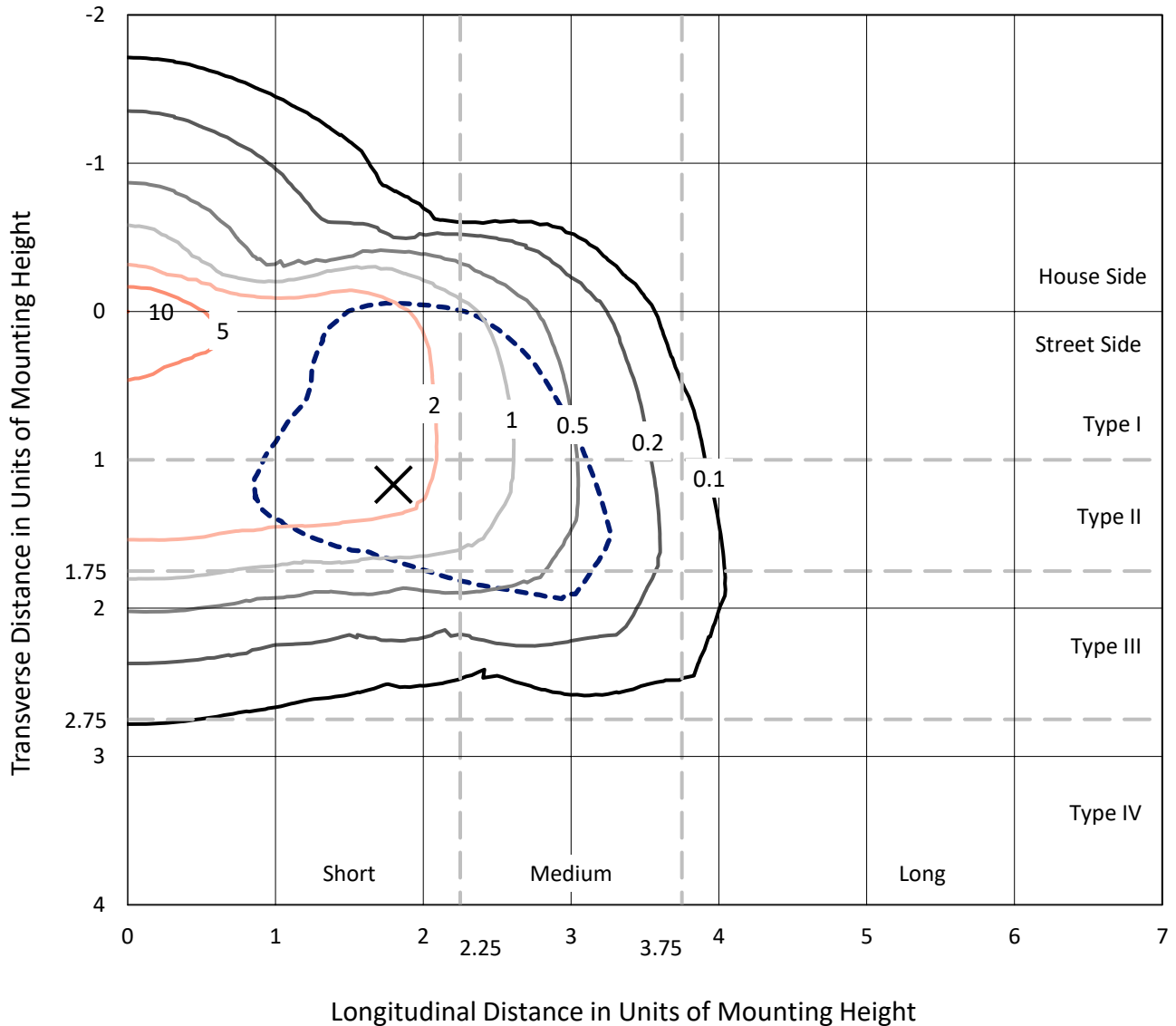
Lumens per Lamp: N/A
Luminaire Lumens: 22737.9 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.7
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

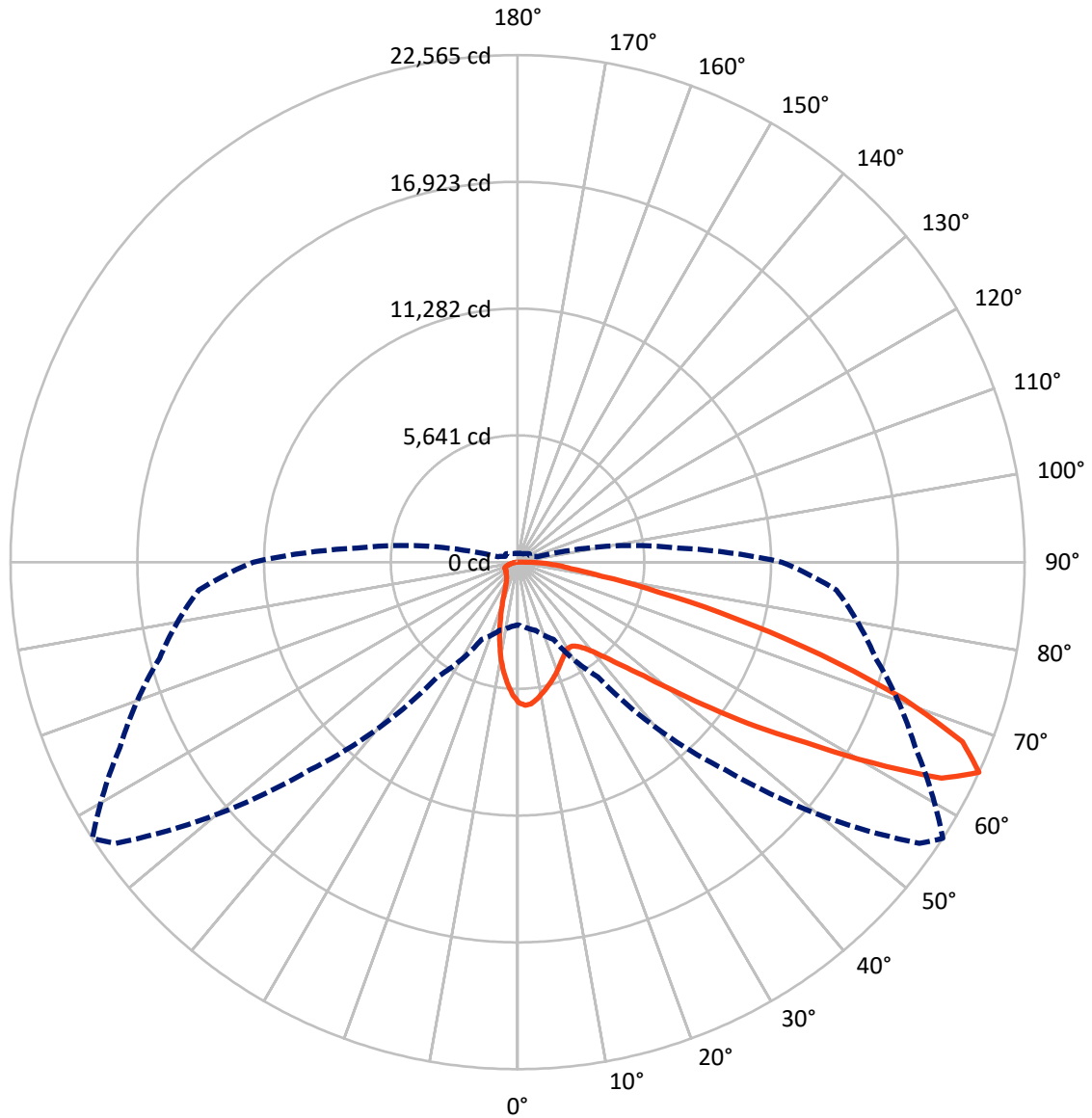
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3487.1	0.0	3487.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	19250.8	0.0	19250.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	22737.9	0.0	22737.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.6	2.3
10°-20°	1126.9	5.0
20°-30°	1457.0	6.4
30°-40°	1960.6	8.6
40°-50°	3126.3	13.7
50°-60°	5521.7	24.3
60°-70°	6074.6	26.7
70°-80°	2541.1	11.2
80°-90°	406.1	1.8
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°	22737.9	100.0
0°-180°	22737.9	100.0

Coefficient of Utilization



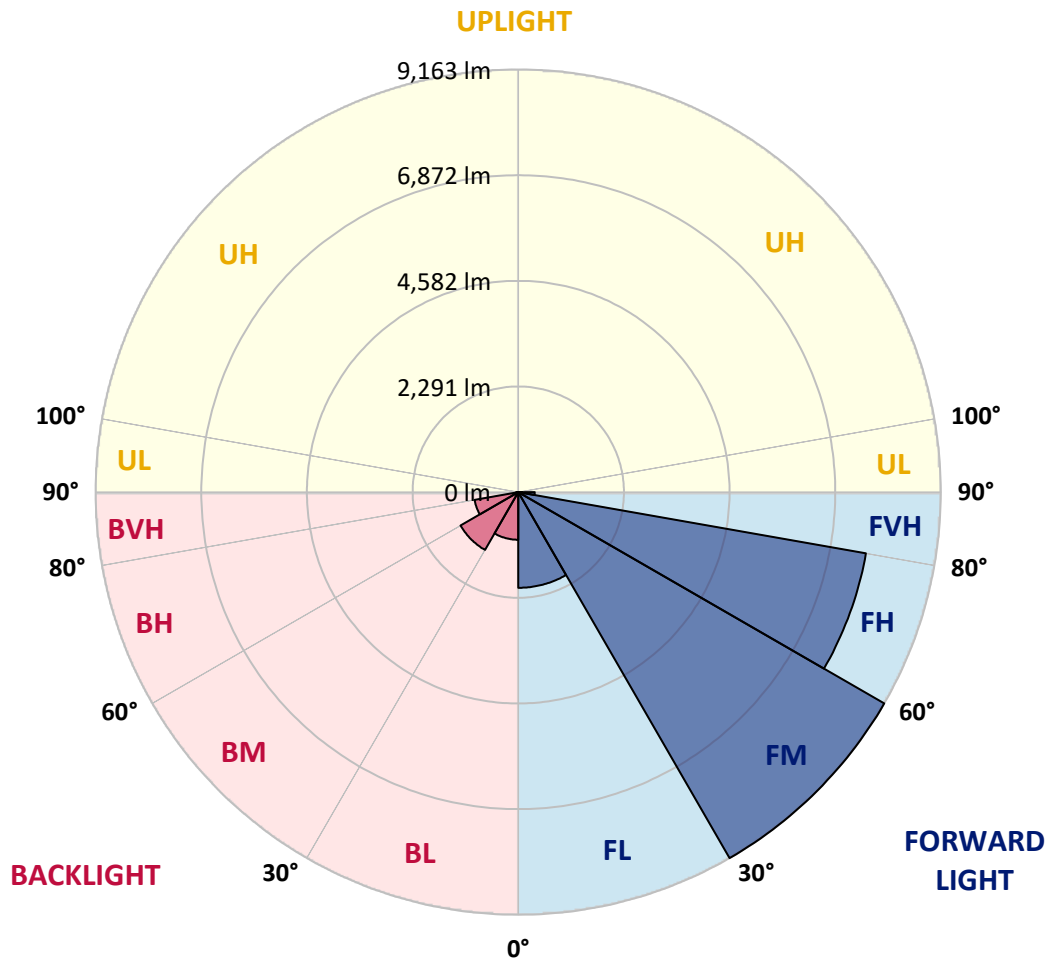
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2074.7	9.1			
FM (30°-60°)	9163.3	40.3			
FH (60°-80°)	7654.2	33.7			G4/12000
FVH (80°-90°)	358.5	1.6			G3/500
BL (0°-30°)	1032.7	4.5	B3/2500		
BM (30°-60°)	1445.2	6.4	B2/2500		
BH (60°-80°)	961.5	4.2	B2/1000		G2/1000
BVH (80°-90°)	47.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	6252.6	6252.6	6252.6	6252.6	6252.6	6252.6	6252.6	6252.6	6252.6	6252.6	6252.6
2.5°	6421.4	6431.7	6431.7	6452.1	6383.1	6416.3	6411.2	6380.5	6390.7	6337.0	6283.3
5°	6239.8	6232.1	6273.1	6278.2	6331.9	6347.2	6360.0	6339.6	6344.7	6227.0	6175.8
7.5°	5774.2	5771.6	5840.7	5899.5	6012.1	6117.0	6186.1	6165.6	6193.7	6119.6	5999.3
10°	5221.6	5280.4	5352.1	5410.9	5618.1	5751.2	5930.2	5948.1	6055.6	6037.7	5820.2
12.5°	4807.1	4832.7	4886.4	5055.3	5244.6	5464.6	5720.5	5743.5	5848.4	5899.5	5710.2
15°	4466.9	4489.9	4559.0	4684.3	4896.7	5157.6	5482.5	5541.4	5751.2	5769.1	5567.0
17.5°	4218.7	4236.6	4282.7	4408.0	4582.0	4917.1	5224.1	5329.0	5605.3	5692.3	5418.6
20°	4121.5	4083.1	4108.7	4188.0	4362.0	4620.4	5016.9	5109.0	5462.1	5633.5	5277.9
22.5°	4078.0	4044.7	4060.1	4055.0	4193.1	4377.3	4794.3	4891.6	5326.5	5564.4	5152.5
25°	4111.3	4111.3	4095.9	4083.1	4098.5	4218.7	4553.8	4704.8	5144.8	5505.6	5024.6
27.5°	4290.3	4221.3	4228.9	4175.2	4159.9	4159.9	4446.4	4535.9	5086.0	5472.3	4919.7
30°	4405.5	4438.7	4441.3	4362.0	4282.7	4139.4	4346.6	4433.6	5037.4	5513.2	4858.3
32.5°	4699.7	4684.3	4640.8	4625.5	4507.8	4346.6	4395.2	4454.1	5009.2	5605.3	4876.2
35°	4993.9	4986.2	4988.8	4981.1	4858.3	4620.4	4525.7	4605.0	5060.4	5766.5	4937.6
37.5°	5298.3	5318.8	5405.8	5405.8	5275.3	5016.9	4891.6	4868.5	5247.2	6030.0	5083.4
40°	5602.8	5653.9	5763.9	5937.9	5753.7	5513.2	5311.1	5275.3	5472.3	6383.1	5433.9
42.5°	5894.4	5978.8	6196.3	6454.7	6393.3	6152.8	5884.2	5843.3	5935.4	6907.5	5922.6
45°	6267.9	6339.6	6682.4	7078.9	7163.4	6951.0	6636.3	6603.1	6598.0	7675.0	6595.4
47.5°	6835.9	6912.6	7255.5	7654.6	7915.5	7948.8	7595.7	7559.9	7437.1	8711.2	7580.4
50°	7547.1	7672.5	7961.6	8427.2	8805.8	9161.4	9061.6	8956.8	8716.3	9916.1	8828.8
52.5°	8066.5	8220.0	8611.4	9207.5	9875.2	10440.6	10798.8	10798.8	10246.2	11238.8	10330.6
55°	8204.6	8296.7	8790.5	9652.6	10796.2	12226.3	12975.9	12919.6	12067.7	12630.5	12077.9
57.5°	7654.6	7774.8	8373.5	9276.5	11279.7	13896.9	15137.7	15150.5	14058.1	14247.4	13802.3
60°	6140.0	6178.4	6884.5	8092.0	10814.1	15242.6	18090.0	18138.6	16322.2	15687.8	14679.8
62.5°	4244.3	4367.1	4899.2	5958.4	8959.3	15091.7	20937.5	21178.0	18136.1	16447.6	14817.9
65°	2793.7	2867.9	3151.9	3796.6	6237.2	13080.8	21822.7	22564.6	19522.7	16491.1	14239.7
67.5°	2026.2	2039.0	2123.4	2456.0	3748.0	9407.0	20310.7	21357.0	20042.1	16127.8	12883.8
70°	1637.3	1647.6	1678.3	1890.6	2420.2	5886.7	16565.3	18205.2	18484.0	14406.0	10376.6
72.5°	1330.3	1343.1	1381.5	1581.1	1995.5	3274.7	12113.8	14111.8	15035.4	10658.1	6897.3
75°	1046.4	1056.6	1148.7	1345.7	1875.3	2248.8	8035.8	9992.9	10118.2	6229.6	3228.6
77.5°	716.3	734.2	846.8	1141.0	1765.3	1967.4	5009.2	6401.0	5743.5	2438.1	1110.3
80°	455.4	481.0	547.5	864.7	1560.6	1877.8	3116.1	3822.2	2514.9	834.0	534.7
82.5°	268.6	294.2	360.7	560.3	1225.4	1742.2	2195.1	2392.0	1179.4	427.2	322.4
85°	148.4	166.3	217.5	337.7	718.9	1547.8	1757.6	1716.6	675.4	227.7	202.1
87.5°	48.6	56.3	79.3	135.6	296.8	729.1	1054.0	990.1	350.5	104.9	79.3
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°	6252.6	6252.6	6252.6	6252.6	6252.6	6252.6	6252.6	6252.6	6252.6	6252.6	6252.6
2.5°	6247.5	6239.8	6124.7	6037.7	5889.3	5766.5	5717.9	5651.4	5648.8	5600.2	5587.4
5°	6096.5	6017.2	5840.7	5671.8	5408.3	5231.8	5070.6	4958.1	4912.0	4812.2	4789.2
7.5°	5902.1	5797.2	5526.0	5208.8	4899.2	4622.9	4372.2	4121.5	3980.8	3932.2	3878.4
10°	5700.0	5515.8	5114.1	4758.5	4326.2	3901.5	3507.5	3154.4	2962.6	2827.0	2768.1
12.5°	5538.8	5293.2	4781.5	4249.4	3678.9	3110.9	2653.0	2282.0	2064.6	1962.2	1916.2
15°	5357.2	5032.3	4418.3	3745.4	3034.2	2389.5	1941.8	1650.1	1563.1	1514.5	1506.9
17.5°	5165.3	4789.2	4024.3	3249.1	2404.8	1798.5	1509.4	1391.7	1353.4	1332.9	1322.7
20°	4986.2	4571.8	3620.1	2696.5	1882.9	1442.9	1307.3	1245.9	1243.4	1253.6	1251.0
22.5°	4732.9	4287.8	3221.0	2184.8	1504.3	1256.1	1169.2	1153.8	1169.2	1182.0	1187.1
25°	4589.7	4055.0	2775.8	1734.6	1243.4	1115.4	1087.3	1082.2	1105.2	1120.6	1118.0
27.5°	4441.3	3814.5	2361.3	1389.2	1089.9	1015.7	1010.5	1015.7	1038.7	1061.7	1059.2
30°	4326.2	3622.6	1972.5	1161.5	972.2	944.0	938.9	944.0	956.8	959.4	959.4
32.5°	4231.5	3394.9	1642.5	1008.0	900.5	877.5	882.6	880.1	882.6	885.2	887.7
35°	4175.2	3259.3	1371.3	913.3	841.7	823.8	821.2	813.6	816.1	818.7	816.1
37.5°	4295.5	3192.8	1156.4	846.8	800.8	785.4	780.3	775.2	767.5	767.5	767.5
40°	4477.1	3157.0	1025.9	803.3	770.1	752.2	736.8	731.7	731.7	734.2	736.8
42.5°	4837.8	3215.8	936.4	770.1	731.7	711.2	695.9	698.4	706.1	713.8	708.7
45°	5359.7	3394.9	895.4	744.5	708.7	680.5	670.3	667.7	675.4	688.2	698.4
47.5°	6042.8	3673.8	880.1	721.5	693.3	654.9	642.1	649.8	660.1	678.0	670.3
50°	7160.8	4300.6	892.9	701.0	670.3	642.1	626.8	619.1	626.8	639.6	644.7
52.5°	8621.6	5439.0	941.5	690.8	654.9	631.9	606.3	593.5	601.2	611.4	611.4
55°	10369.0	6994.5	1077.1	678.0	629.4	616.6	588.4	562.8	568.0	568.0	565.4
57.5°	11909.1	8168.8	1238.2	660.1	614.0	596.1	560.3	529.6	524.5	527.0	529.6
60°	12599.8	8480.9	1315.0	654.9	614.0	570.5	521.9	491.2	483.5	478.4	478.4
62.5°	12479.6	7941.1	1158.9	631.9	629.4	550.0	486.1	452.8	442.6	432.4	434.9
65°	11753.0	7171.0	913.3	601.2	631.9	537.3	450.3	417.0	399.1	386.3	383.8
67.5°	10425.2	6122.1	724.0	578.2	606.3	514.2	419.6	381.2	365.8	353.1	347.9
70°	8156.0	4799.4	629.4	547.5	544.9	457.9	383.8	350.5	327.5	312.1	312.1
72.5°	5288.1	3034.2	539.8	486.1	470.7	383.8	332.6	312.1	294.2	281.4	281.4
75°	2394.6	1409.6	434.9	406.8	383.8	307.0	281.4	271.2	255.8	243.0	243.0
77.5°	859.6	601.2	324.9	319.8	286.5	237.9	227.7	220.0	209.8	197.0	197.0
80°	481.0	381.2	243.0	232.8	199.6	176.5	163.7	163.7	158.6	150.9	148.4
82.5°	304.4	248.2	179.1	156.1	130.5	117.7	112.6	110.0	107.5	97.2	94.7
85°	191.9	168.9	117.7	92.1	76.8	58.8	56.3	53.7	48.6	43.5	43.5
87.5°	87.0	97.2	46.1	28.1	20.5	12.8	7.7	2.6	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)