

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: P480595

Luminaire Tested: **IFLD-M-SA4B-760-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480595
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-760-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

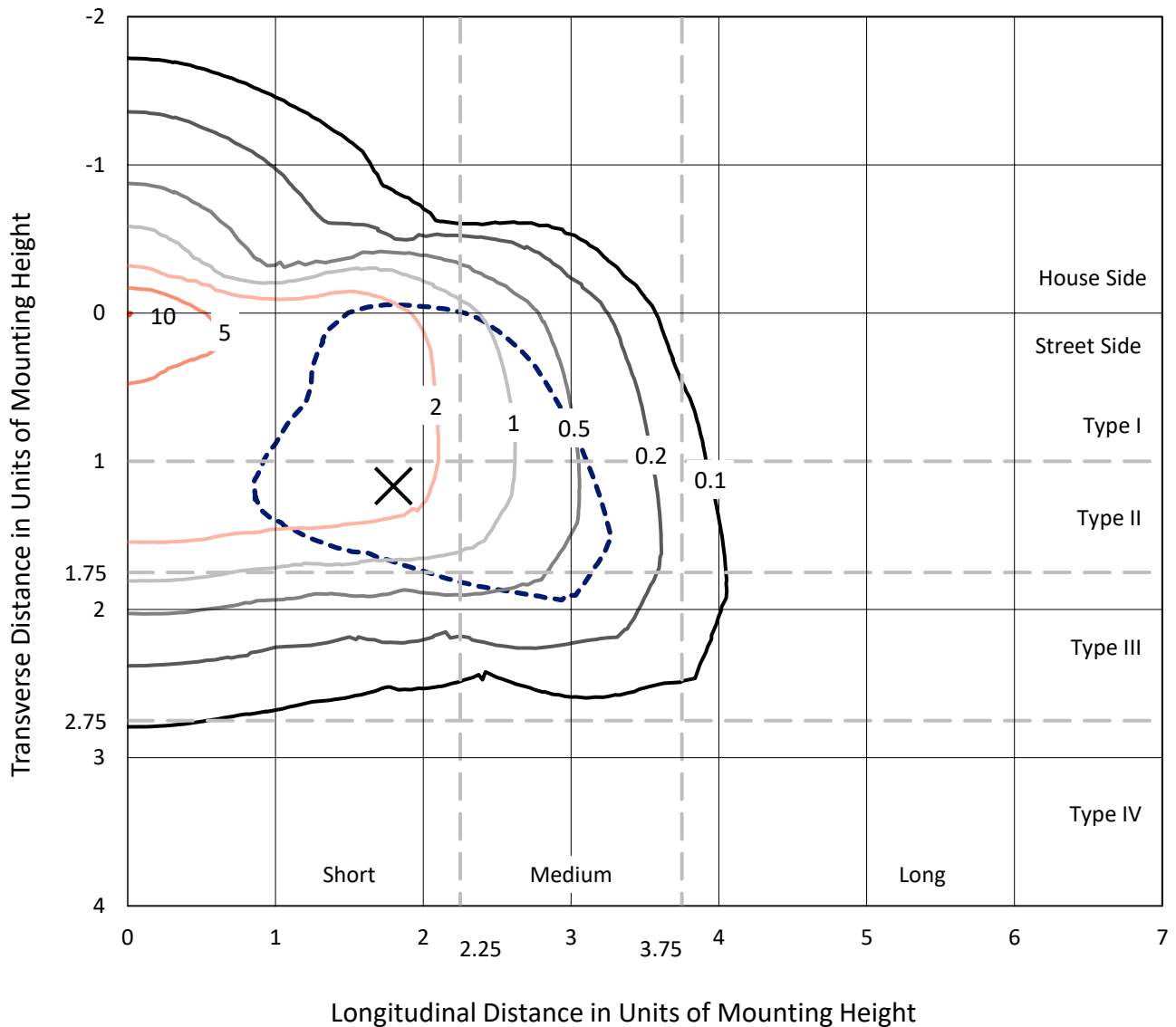
Lumens per Lamp: N/A
Luminaire Lumens: 23052.4 lumens
Efficiency: N/A
Efficacy: 138.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 166.1
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

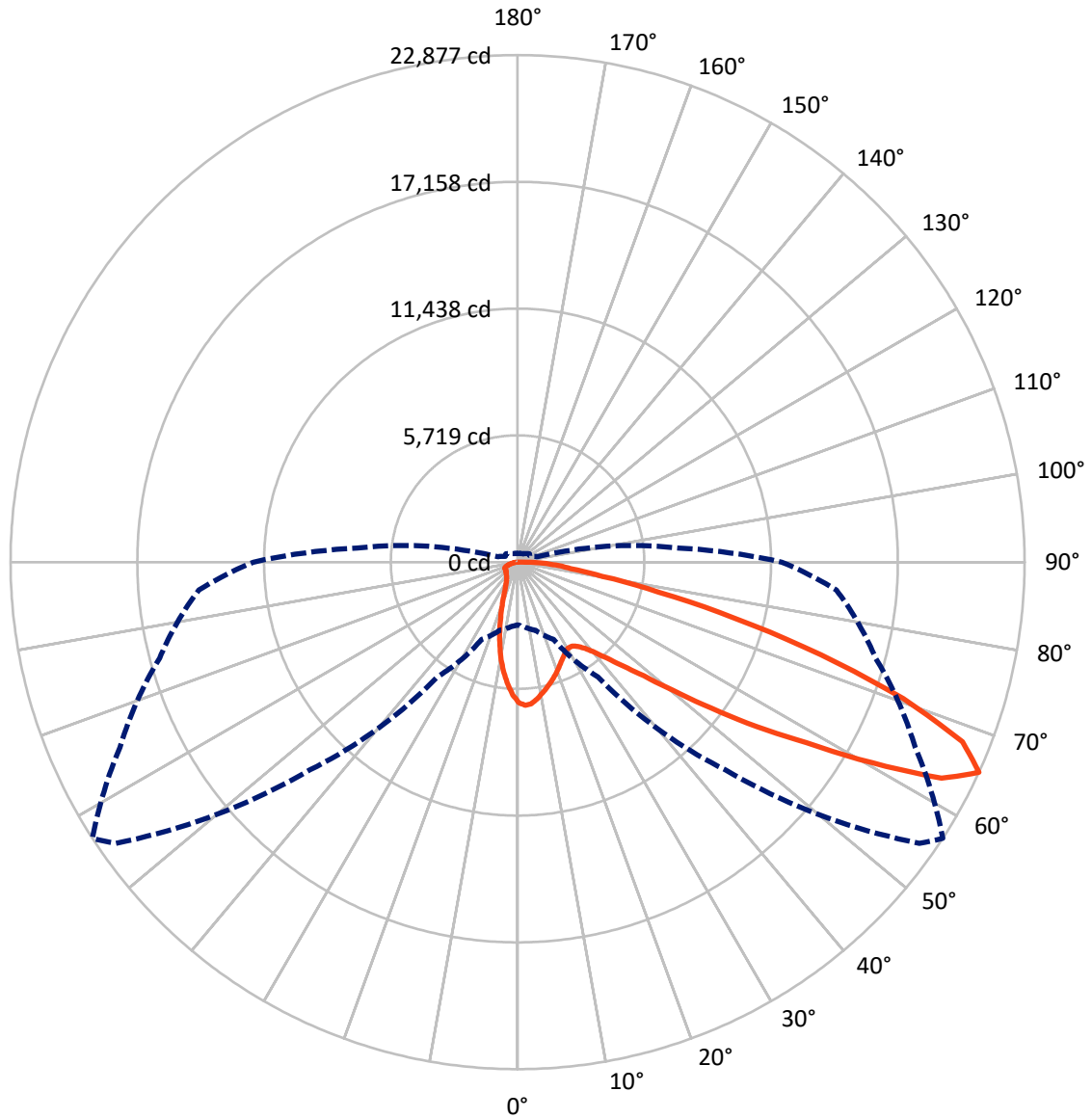
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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	3535.3	0.0	3535.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	19517.1	0.0	19517.1
	% Fixture	84.7	0.0	84.7
Total	Lumens	23052.4	0.0	23052.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.8	2.3
10°-20°	1142.5	5.0
20°-30°	1477.1	6.4
30°-40°	1987.7	8.6
40°-50°	3169.5	13.7
50°-60°	5598.1	24.3
60°-70°	6158.6	26.7
70°-80°	2576.3	11.2
80°-90°	411.7	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°	23052.4	100.0
0°-180°	23052.4	100.0

Coefficient of Utilization



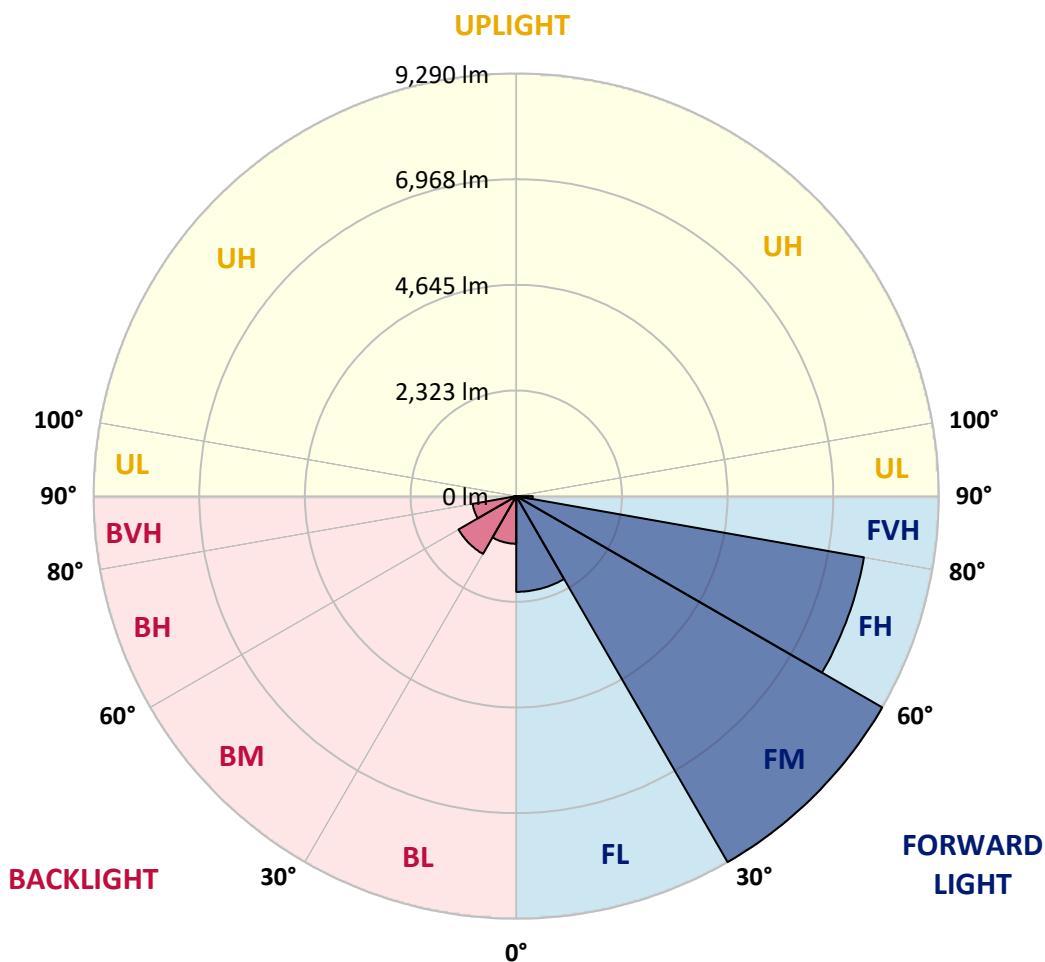
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2103.4	9.1			
FM (30°-60°)	9290.1	40.3			
FH (60°-80°)	7760.1	33.7			G4/12000
FVH (80°-90°)	363.4	1.6			G3/500
BL (0°-30°)	1047.0	4.5	B3/2500		
BM (30°-60°)	1465.2	6.4	B2/2500		
BH (60°-80°)	974.8	4.2	B2/1000		G2/1000
BVH (80°-90°)	48.3	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°	6339.1	6339.1	6339.1	6339.1	6339.1	6339.1	6339.1	6339.1	6339.1	6339.1	6339.1
2.5°	6510.3	6520.6	6520.6	6541.4	6471.4	6505.1	6499.9	6468.8	6479.1	6424.7	6370.2
5°	6326.1	6318.3	6359.8	6365.0	6419.5	6435.0	6448.0	6427.3	6432.4	6313.1	6261.3
7.5°	5854.0	5851.4	5921.5	5981.1	6095.3	6201.6	6271.6	6250.9	6279.4	6204.2	6082.3
10°	5293.8	5353.5	5426.1	5485.7	5695.8	5830.7	6012.3	6030.4	6139.4	6121.2	5900.7
12.5°	4873.6	4899.6	4954.0	5125.2	5317.1	5540.2	5799.6	5822.9	5929.3	5981.1	5789.2
15°	4528.6	4552.0	4622.0	4749.1	4964.4	5229.0	5558.4	5618.0	5830.7	5848.9	5644.0
17.5°	4277.1	4295.2	4341.9	4469.0	4645.4	4985.1	5296.4	5402.7	5682.9	5771.0	5493.5
20°	4178.5	4139.6	4165.5	4245.9	4422.3	4684.3	5086.3	5179.7	5537.6	5711.4	5350.9
22.5°	4134.4	4100.7	4116.2	4111.1	4251.1	4437.9	4860.6	4959.2	5400.1	5641.4	5223.8
25°	4168.1	4168.1	4152.6	4139.6	4155.2	4277.1	4616.8	4769.9	5216.0	5581.7	5094.1
27.5°	4349.7	4279.7	4287.4	4233.0	4217.4	4217.4	4507.9	4598.7	5156.3	5548.0	4987.7
30°	4466.4	4500.1	4502.7	4422.3	4341.9	4196.7	4406.7	4494.9	5107.0	5589.5	4925.5
32.5°	4764.7	4749.1	4705.0	4689.5	4570.1	4406.7	4456.0	4515.7	5078.5	5682.9	4943.6
35°	5063.0	5055.2	5057.8	5050.0	4925.5	4684.3	4588.3	4668.7	5130.4	5846.3	5005.9
37.5°	5371.6	5392.4	5480.5	5480.5	5348.3	5086.3	4959.2	4935.9	5319.7	6113.4	5153.7
40°	5680.3	5732.1	5843.7	6020.0	5833.3	5589.5	5384.6	5348.3	5548.0	6471.4	5509.1
42.5°	5975.9	6061.5	6282.0	6544.0	6481.7	6237.9	5965.6	5924.1	6017.4	7003.1	6004.5
45°	6354.6	6427.3	6774.8	7176.8	7262.4	7047.2	6728.1	6694.4	6689.2	7781.2	6686.6
47.5°	6930.4	7008.3	7355.8	7760.4	8025.0	8058.7	7700.8	7664.5	7540.0	8831.6	7685.2
50°	7651.5	7778.6	8071.7	8543.7	8927.6	9288.1	9187.0	9080.6	8836.8	10053.3	8951.0
52.5°	8178.0	8333.6	8730.5	9334.8	10011.8	10585.0	10948.1	10948.1	10387.9	11394.2	10473.5
55°	8318.1	8411.5	8912.0	9786.1	10945.5	12395.4	13155.4	13098.3	12234.6	12805.2	12245.0
57.5°	7760.4	7882.3	8489.3	9404.9	11435.7	14089.1	15347.1	15360.1	14252.5	14444.5	13993.2
60°	6224.9	6263.9	6979.7	8204.0	10963.7	15453.4	18340.2	18389.5	16548.0	15904.7	14882.8
62.5°	4303.0	4427.5	4967.0	6040.8	9083.2	15300.4	21227.1	21470.9	18386.9	16675.1	15022.9
65°	2832.4	2907.6	3195.5	3849.1	6323.5	13261.7	22124.5	22876.7	19792.7	16719.2	14436.7
67.5°	2054.2	2067.2	2152.8	2490.0	3799.8	9537.1	20591.6	21652.4	20319.3	16350.9	13062.0
70°	1660.0	1670.4	1701.5	1916.8	2453.7	5968.2	16794.4	18457.0	18739.7	14605.3	10520.2
72.5°	1348.7	1361.7	1400.6	1602.9	2023.1	3320.0	12281.3	14307.0	15243.3	10805.5	6992.7
75°	1060.8	1071.2	1164.6	1364.3	1901.2	2279.9	8146.9	10131.1	10258.2	6315.7	3273.3
77.5°	726.2	744.4	858.5	1156.8	1789.7	1994.6	5078.5	6489.5	5822.9	2471.8	1125.7
80°	461.7	487.6	555.1	876.7	1582.2	1903.8	3159.2	3875.0	2549.6	845.6	542.1
82.5°	272.3	298.3	365.7	568.0	1242.4	1766.3	2225.4	2425.1	1195.7	433.2	326.8
85°	150.4	168.6	220.5	342.4	728.8	1569.2	1781.9	1740.4	684.7	230.8	204.9
87.5°	49.3	57.1	80.4	137.5	300.9	739.2	1068.6	1003.8	355.3	106.3	80.4
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°	6339.1	6339.1	6339.1	6339.1	6339.1	6339.1	6339.1	6339.1	6339.1	6339.1	6339.1
2.5°	6333.9	6326.1	6209.4	6121.2	5970.8	5846.3	5797.0	5729.5	5727.0	5677.7	5664.7
5°	6180.9	6100.4	5921.5	5750.3	5483.1	5304.2	5140.8	5026.6	4980.0	4878.8	4855.5
7.5°	5983.7	5877.4	5602.5	5280.8	4967.0	4686.9	4432.7	4178.5	4035.8	3986.6	3932.1
10°	5778.8	5592.1	5184.9	4824.3	4386.0	3955.4	3556.0	3198.1	3003.5	2866.1	2806.4
12.5°	5615.4	5366.4	4847.7	4308.2	3729.8	3154.0	2689.7	2313.6	2093.1	1989.4	1942.7
15°	5431.3	5101.9	4479.4	3797.2	3076.2	2422.5	1968.6	1673.0	1584.8	1535.5	1527.7
17.5°	5236.7	4855.5	4079.9	3294.0	2438.1	1823.4	1530.3	1411.0	1372.1	1351.3	1341.0
20°	5055.2	4635.0	3670.1	2733.8	1909.0	1462.9	1325.4	1263.1	1260.6	1270.9	1268.3
22.5°	4798.4	4347.1	3265.5	2215.0	1525.1	1273.5	1185.3	1169.8	1185.3	1198.3	1203.5
25°	4653.1	4111.1	2814.2	1758.5	1260.6	1130.9	1102.3	1097.1	1120.5	1136.1	1133.5
27.5°	4502.7	3867.2	2394.0	1408.4	1104.9	1029.7	1024.5	1029.7	1053.1	1076.4	1073.8
30°	4386.0	3672.7	1999.8	1177.6	985.6	957.1	951.9	957.1	970.1	972.6	972.6
32.5°	4290.0	3441.9	1665.2	1021.9	913.0	889.6	894.8	892.2	894.8	897.4	900.0
35°	4233.0	3304.4	1390.2	926.0	853.3	835.2	832.6	824.8	827.4	830.0	827.4
37.5°	4354.9	3237.0	1172.4	858.5	811.8	796.3	791.1	785.9	778.1	778.1	778.1
40°	4539.0	3200.7	1040.1	814.4	780.7	762.6	747.0	741.8	741.8	744.4	747.0
42.5°	4904.7	3260.3	949.3	780.7	741.8	721.1	705.5	708.1	715.9	723.6	718.5
45°	5433.9	3441.9	907.8	754.8	718.5	689.9	679.6	677.0	684.7	697.7	708.1
47.5°	6126.4	3724.6	892.2	731.4	702.9	664.0	651.0	658.8	669.2	687.3	679.6
50°	7259.8	4360.1	905.2	710.7	679.6	651.0	635.5	627.7	635.5	648.4	653.6
52.5°	8740.9	5514.3	954.5	700.3	664.0	640.7	614.7	601.7	609.5	619.9	619.9
55°	10512.4	7091.3	1092.0	687.3	638.1	625.1	596.6	570.6	575.8	575.8	573.2
57.5°	12073.8	8281.8	1255.4	669.2	622.5	604.3	568.0	536.9	531.7	534.3	536.9
60°	12774.1	8598.2	1333.2	664.0	622.5	578.4	529.1	498.0	490.2	485.0	485.0
62.5°	12652.2	8050.9	1175.0	640.7	638.1	557.7	492.8	459.1	448.7	438.3	440.9
65°	11915.6	7270.2	926.0	609.5	640.7	544.7	456.5	422.8	404.6	391.7	389.1
67.5°	10569.4	6206.8	734.0	586.2	614.7	521.3	425.4	386.5	370.9	357.9	352.7
70°	8268.8	4865.8	638.1	555.1	552.5	464.3	389.1	355.3	332.0	316.4	316.4
72.5°	5361.2	3076.2	547.3	492.8	477.2	389.1	337.2	316.4	298.3	285.3	285.3
75°	2427.7	1429.1	440.9	412.4	389.1	311.2	285.3	274.9	259.4	246.4	246.4
77.5°	871.5	609.5	329.4	324.2	290.5	241.2	230.8	223.1	212.7	199.7	199.7
80°	487.6	386.5	246.4	236.0	202.3	179.0	166.0	166.0	160.8	153.0	150.4
82.5°	308.7	251.6	181.6	158.2	132.3	119.3	114.1	111.5	108.9	98.6	96.0
85°	194.5	171.2	119.3	93.4	77.8	59.7	57.1	54.5	49.3	44.1	44.1
87.5°	88.2	98.6	46.7	28.5	20.7	13.0	7.8	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)