

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: P480594

Luminaire Tested: **IFLD-M-SA4A-760-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480594
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-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

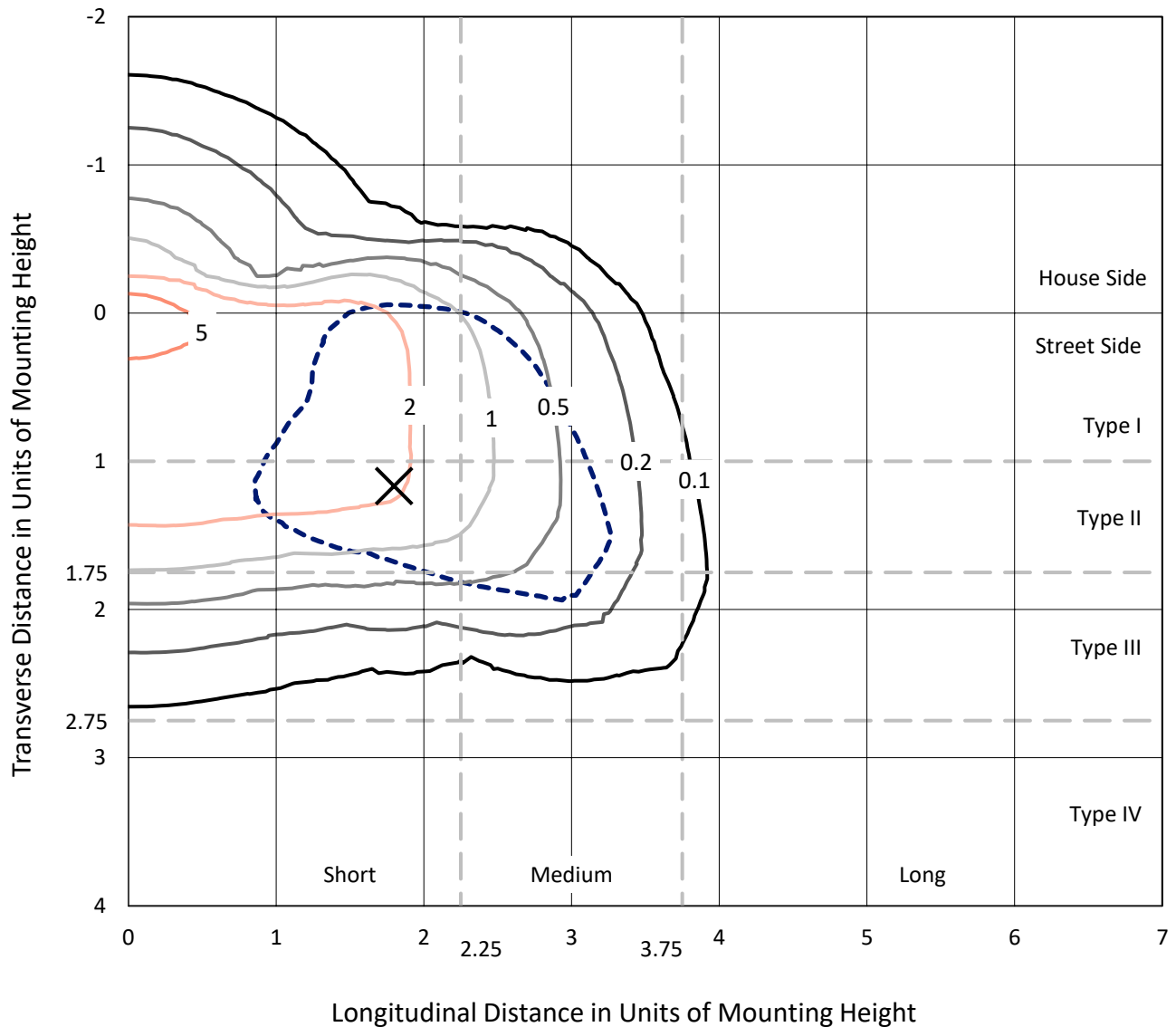
Lumens per Lamp: N/A
Luminaire Lumens: 18639.5 lumens
Efficiency: N/A
Efficacy: 144.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 128.6
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

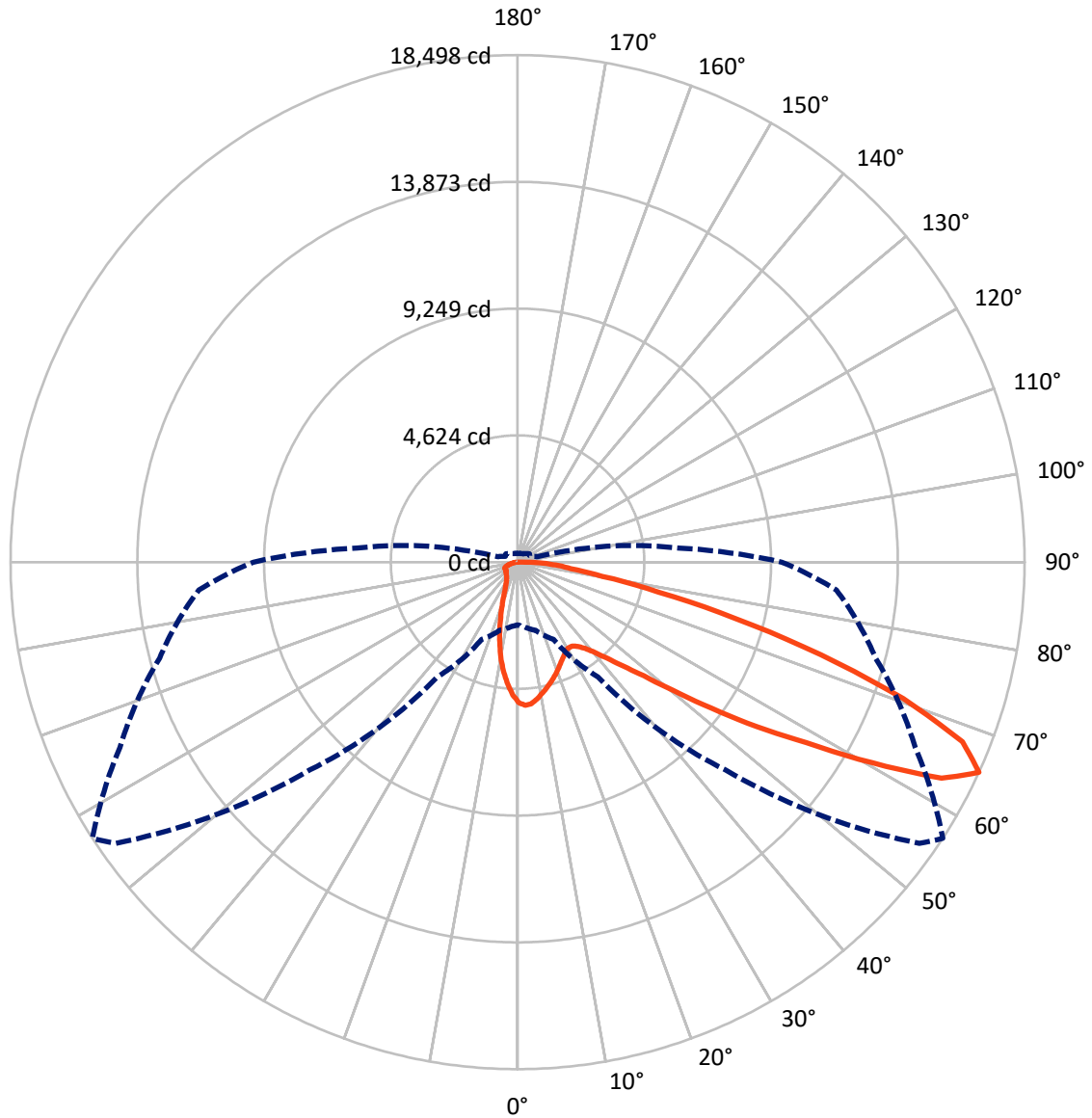
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	2858.5	0.0	2858.5
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	15781.0	0.0	15781.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	18639.5	0.0	18639.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.2	2.3
10°-20°	923.8	5.0
20°-30°	1194.4	6.4
30°-40°	1607.2	8.6
40°-50°	2562.8	13.7
50°-60°	4526.5	24.3
60°-70°	4979.7	26.7
70°-80°	2083.1	11.2
80°-90°	332.9	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°	18639.5	100.0
0°-180°	18639.5	100.0

Coefficient of Utilization



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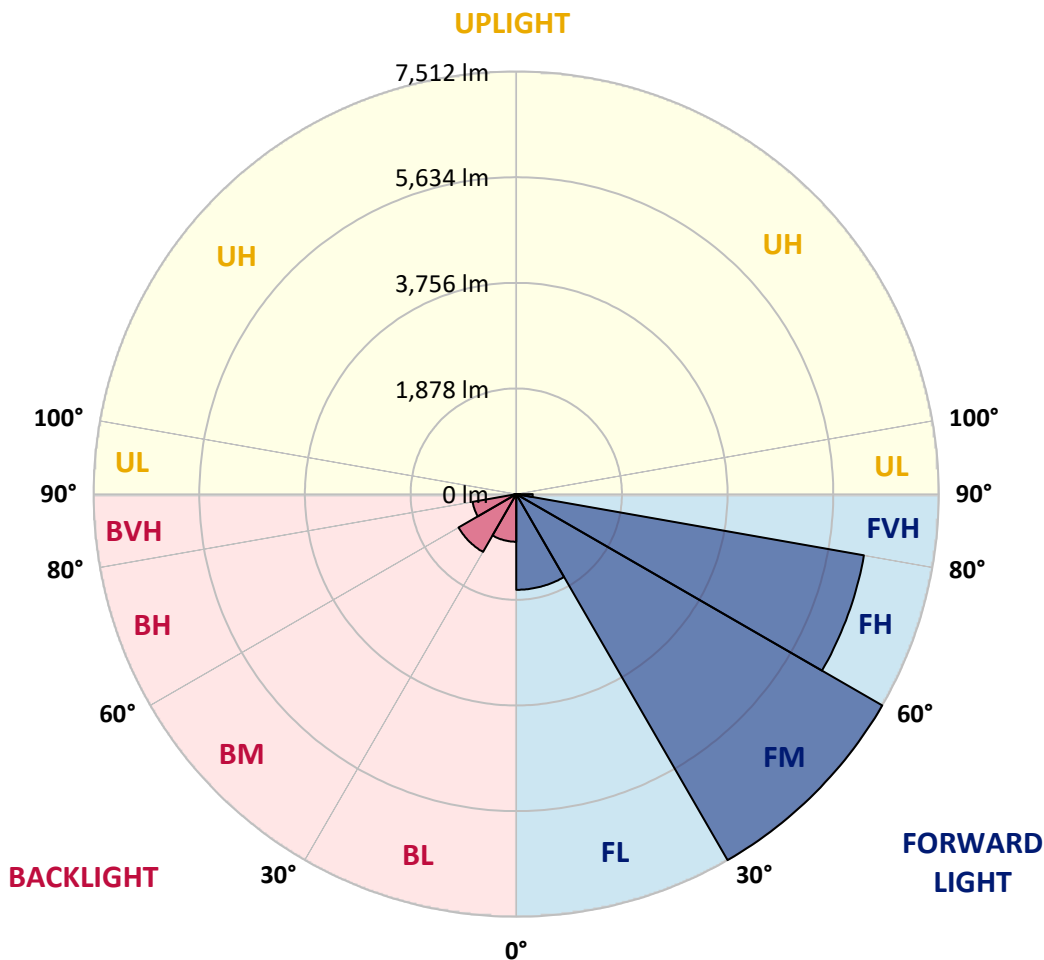
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1700.8	9.1			
FM (30°-60°)	7511.7	40.3			
FH (60°-80°)	6274.6	33.7			G3/7500
FVH (80°-90°)	293.9	1.6			G3/500
BL (0°-30°)	846.6	4.5	B2/1000		
BM (30°-60°)	1184.7	6.4	B2/2500		
BH (60°-80°)	788.2	4.2	B2/1000		G2/1000
BVH (80°-90°)	39.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5125.6	5125.6	5125.6	5125.6	5125.6	5125.6	5125.6	5125.6	5125.6	5125.6	5125.6
2.5°	5264.0	5272.4	5272.4	5289.2	5232.6	5259.8	5255.6	5230.5	5238.9	5194.8	5150.8
5°	5115.1	5108.8	5142.4	5146.6	5190.6	5203.2	5213.7	5196.9	5201.1	5104.6	5062.7
7.5°	4733.4	4731.3	4788.0	4836.2	4928.5	5014.5	5071.1	5054.3	5077.4	5016.5	4918.0
10°	4280.4	4328.7	4387.4	4435.6	4605.5	4714.5	4861.4	4876.0	4964.1	4949.4	4771.2
12.5°	3940.7	3961.6	4005.7	4144.1	4299.3	4479.7	4689.4	4708.3	4794.2	4836.2	4681.0
15°	3661.7	3680.6	3737.2	3840.0	4014.1	4228.0	4494.3	4542.6	4714.5	4729.2	4563.5
17.5°	3458.3	3473.0	3510.7	3613.5	3756.1	4030.9	4282.5	4368.5	4595.0	4666.3	4441.9
20°	3378.6	3347.2	3368.1	3433.1	3575.8	3787.6	4112.6	4188.1	4477.6	4618.1	4326.6
22.5°	3343.0	3315.7	3328.3	3324.1	3437.3	3588.3	3930.2	4009.9	4366.4	4561.5	4223.8
25°	3370.2	3370.2	3357.6	3347.2	3359.7	3458.3	3733.0	3856.8	4217.5	4513.2	4118.9
27.5°	3517.0	3460.4	3466.7	3422.7	3410.1	3410.1	3645.0	3718.4	4169.3	4486.0	4033.0
30°	3611.4	3638.7	3640.8	3575.8	3510.7	3393.3	3563.2	3634.5	4129.4	4519.5	3982.6
32.5°	3852.6	3840.0	3804.4	3791.8	3695.3	3563.2	3603.0	3651.3	4106.4	4595.0	3997.3
35°	4093.8	4087.5	4089.6	4083.3	3982.6	3787.6	3710.0	3775.0	4148.3	4727.1	4047.6
37.5°	4343.3	4360.1	4431.4	4431.4	4324.5	4112.6	4009.9	3991.0	4301.4	4943.1	4167.2
40°	4592.9	4634.9	4725.0	4867.6	4716.6	4519.5	4353.8	4324.5	4486.0	5232.6	4454.5
42.5°	4832.0	4901.2	5079.5	5291.3	5241.0	5043.8	4823.6	4790.0	4865.5	5662.5	4855.1
45°	5138.2	5196.9	5477.9	5803.0	5872.2	5698.1	5440.2	5412.9	5408.7	6291.7	5406.6
47.5°	5603.8	5666.7	5947.7	6274.9	6488.8	6516.1	6226.6	6197.3	6096.6	7141.0	6214.1
50°	6186.8	6289.6	6526.5	6908.2	7218.6	7510.1	7428.3	7342.4	7145.2	8128.8	7237.5
52.5°	6612.5	6738.4	7059.2	7547.9	8095.3	8558.8	8852.4	8852.4	8399.4	9213.1	8468.6
55°	6725.8	6801.3	7206.0	7912.8	8850.3	10022.6	10637.1	10591.0	9892.6	10354.0	9901.0
57.5°	6274.9	6373.4	6864.2	7604.5	9246.6	11392.1	12409.2	12419.7	11524.2	11679.4	11314.5
60°	5033.3	5064.8	5643.6	6633.5	8864.9	12495.2	14829.4	14869.3	13380.3	12860.1	12033.8
62.5°	3479.3	3580.0	4016.2	4884.4	7344.5	12371.5	17163.6	17360.8	14867.2	13483.0	12147.1
65°	2290.2	2351.0	2583.8	3112.3	5113.0	10723.1	17889.3	18497.5	16003.9	13518.7	11673.1
67.5°	1661.0	1671.5	1740.7	2013.3	3072.4	7711.5	16649.8	17507.6	16429.6	13220.9	10561.6
70°	1342.2	1350.6	1375.8	1549.8	1984.0	4825.7	13579.5	14923.8	15152.4	11809.4	8506.3
72.5°	1090.6	1101.0	1132.5	1296.1	1635.8	2684.4	9930.3	11568.3	12325.4	8737.0	5654.1
75°	857.8	866.2	941.7	1103.1	1537.3	1843.5	6587.4	8191.7	8294.5	5106.7	2646.7
77.5°	587.2	601.9	694.2	935.4	1447.1	1612.8	4106.4	5247.2	4708.3	1998.6	910.2
80°	373.3	394.3	448.8	708.9	1279.3	1539.4	2554.4	3133.2	2061.6	683.7	438.3
82.5°	220.2	241.2	295.7	459.3	1004.6	1428.2	1799.4	1960.9	966.8	350.2	264.2
85°	121.6	136.3	178.3	276.8	589.3	1268.8	1440.8	1407.2	553.7	186.7	165.7
87.5°	39.8	46.1	65.0	111.2	243.3	597.7	864.1	811.6	287.3	86.0	65.0
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°	5125.6	5125.6	5125.6	5125.6	5125.6	5125.6	5125.6	5125.6	5125.6	5125.6	5125.6
2.5°	5121.4	5115.1	5020.7	4949.4	4827.8	4727.1	4687.3	4632.8	4630.7	4590.8	4580.3
5°	4997.7	4932.7	4788.0	4649.5	4433.5	4288.8	4156.7	4064.4	4026.7	3944.9	3926.0
7.5°	4838.3	4752.3	4530.0	4269.9	4016.2	3789.7	3584.1	3378.6	3263.3	3223.4	3179.4
10°	4672.6	4521.6	4192.3	3900.8	3546.4	3198.3	2875.3	2585.9	2428.6	2317.4	2269.2
12.5°	4540.5	4339.1	3919.7	3483.5	3015.8	2550.2	2174.8	1870.7	1692.5	1608.6	1570.8
15°	4391.6	4125.2	3621.9	3070.3	2487.3	1958.8	1591.8	1352.7	1281.4	1241.6	1235.3
17.5°	4234.3	3926.0	3298.9	2663.5	1971.4	1474.3	1237.4	1140.9	1109.4	1092.7	1084.3
20°	4087.5	3747.7	2967.6	2210.5	1543.6	1182.8	1071.7	1021.3	1019.2	1027.6	1025.5
22.5°	3879.9	3514.9	2640.4	1791.0	1233.2	1029.7	958.4	945.8	958.4	968.9	973.1
25°	3762.4	3324.1	2275.5	1421.9	1019.2	914.4	891.3	887.1	906.0	918.6	916.5
27.5°	3640.8	3127.0	1935.7	1138.8	893.4	832.6	828.4	832.6	851.5	870.3	868.2
30°	3546.4	2969.7	1617.0	952.1	796.9	773.9	769.7	773.9	784.4	786.5	786.5
32.5°	3468.8	2783.0	1346.4	826.3	738.2	719.3	723.5	721.4	723.5	725.6	727.7
35°	3422.7	2671.9	1124.1	748.7	690.0	675.3	673.2	666.9	669.0	671.1	669.0
37.5°	3521.2	2617.3	947.9	694.2	656.4	643.8	639.7	635.5	629.2	629.2	629.2
40°	3670.1	2588.0	841.0	658.5	631.3	616.6	604.0	599.8	599.8	601.9	604.0
42.5°	3965.8	2636.2	767.6	631.3	599.8	583.0	570.4	572.5	578.8	585.1	580.9
45°	4393.7	2783.0	734.0	610.3	580.9	557.9	549.5	547.4	553.7	564.2	572.5
47.5°	4953.6	3011.6	721.4	591.4	568.3	536.9	526.4	532.7	541.1	555.8	549.5
50°	5870.1	3525.4	731.9	574.6	549.5	526.4	513.8	507.5	513.8	524.3	528.5
52.5°	7067.6	4458.7	771.8	566.2	536.9	518.0	497.0	486.6	492.8	501.2	501.2
55°	8500.0	5733.8	882.9	555.8	515.9	505.4	482.4	461.4	465.6	465.6	463.5
57.5°	9762.6	6696.4	1015.1	541.1	503.3	488.7	459.3	434.1	429.9	432.0	434.1
60°	10328.8	6952.3	1078.0	536.9	503.3	467.7	427.8	402.7	396.4	392.2	392.2
62.5°	10230.2	6509.8	950.0	518.0	515.9	450.9	398.5	371.2	362.8	354.4	356.5
65°	9634.6	5878.5	748.7	492.8	518.0	440.4	369.1	341.8	327.2	316.7	314.6
67.5°	8546.2	5018.6	593.5	474.0	497.0	421.5	343.9	312.5	299.9	289.4	285.2
70°	6685.9	3934.4	515.9	448.8	446.7	375.4	314.6	287.3	268.4	255.9	255.9
72.5°	4335.0	2487.3	442.5	398.5	385.9	314.6	272.6	255.9	241.2	230.7	230.7
75°	1963.0	1155.6	356.5	333.5	314.6	251.7	230.7	222.3	209.7	199.2	199.2
77.5°	704.7	492.8	266.3	262.2	234.9	195.0	186.7	180.4	172.0	161.5	161.5
80°	394.3	312.5	199.2	190.8	163.6	144.7	134.2	134.2	130.0	123.7	121.6
82.5°	249.6	203.4	146.8	127.9	107.0	96.5	92.3	90.2	88.1	79.7	77.6
85°	157.3	138.4	96.5	75.5	62.9	48.2	46.1	44.0	39.8	35.7	35.7
87.5°	71.3	79.7	37.7	23.1	16.8	10.5	6.3	2.1	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)