

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: P480498

Luminaire Tested: **IFLD-S-SA3C-740-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480498
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-740-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

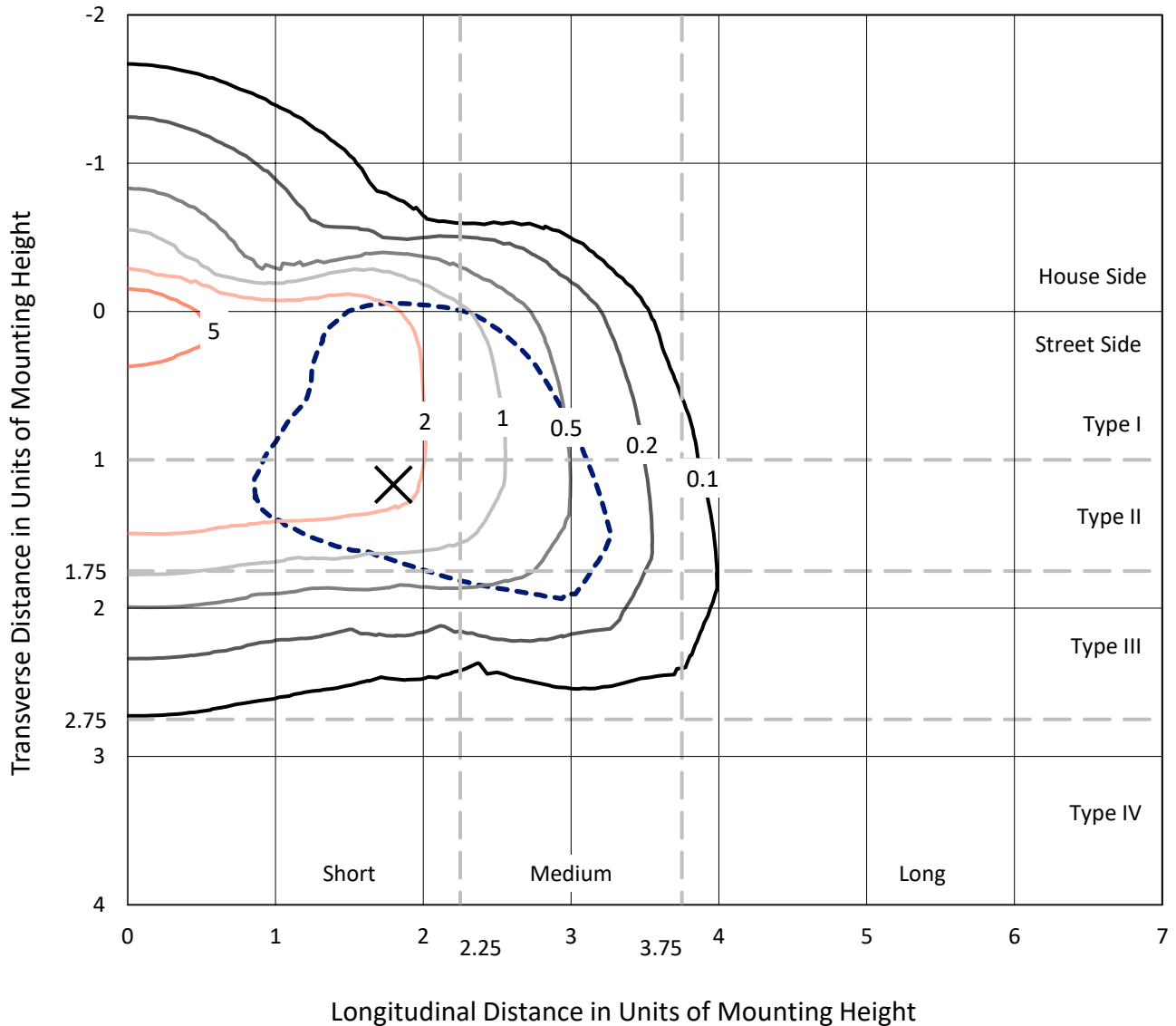
Lumens per Lamp: N/A
Luminaire Lumens: 20900.8 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 160.8
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

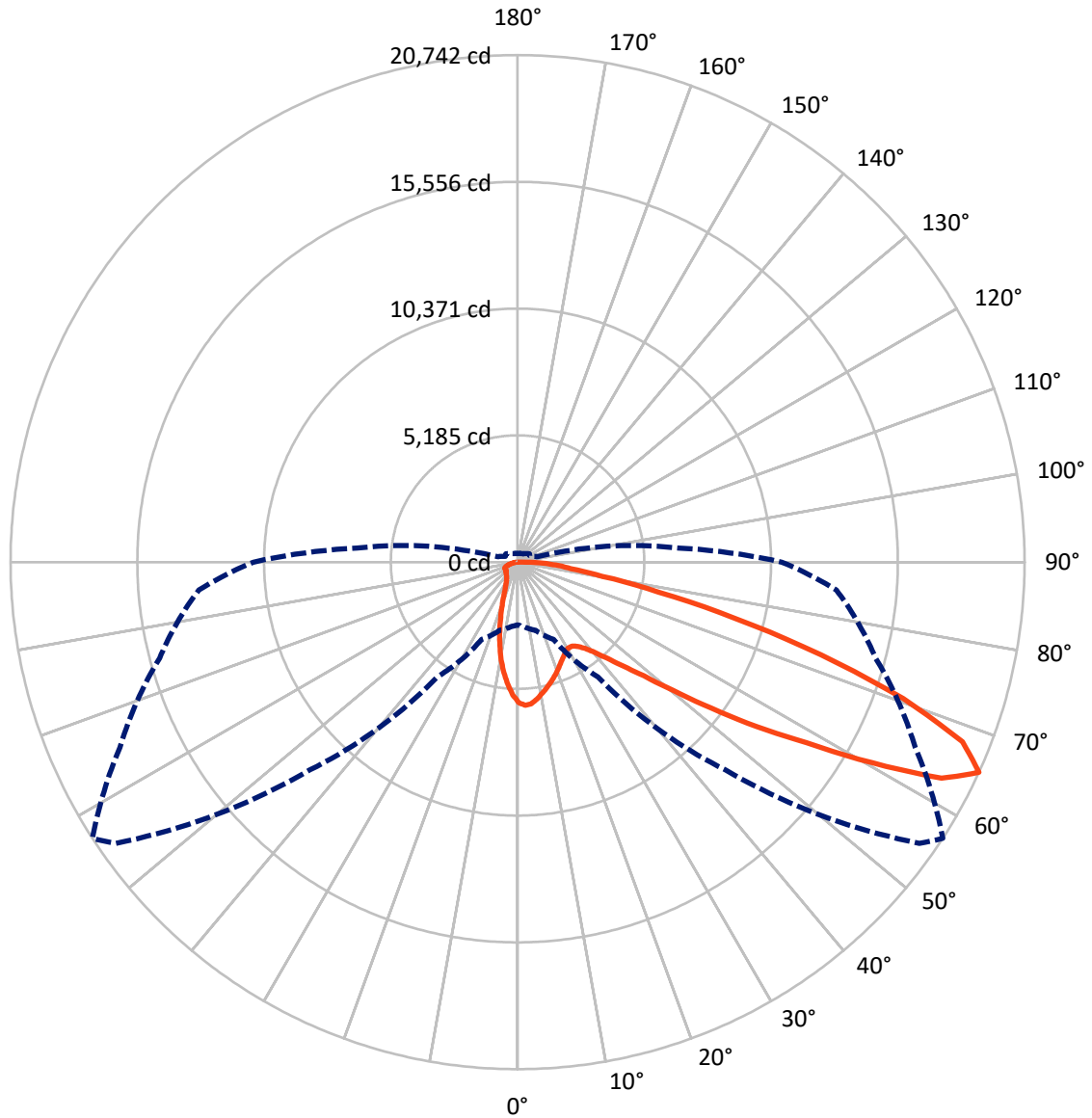
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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	3205.3	0.0	3205.3
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	17695.5	0.0	17695.5
	% Fixture	84.7	0.0	84.7
Total	Lumens	20900.8	0.0	20900.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.3	2.3
10°-20°	1035.8	5.0
20°-30°	1339.3	6.4
30°-40°	1802.2	8.6
40°-50°	2873.7	13.7
50°-60°	5075.6	24.3
60°-70°	5583.8	26.7
70°-80°	2335.8	11.2
80°-90°	373.3	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°	20900.8	100.0
0°-180°	20900.8	100.0

Coefficient of Utilization



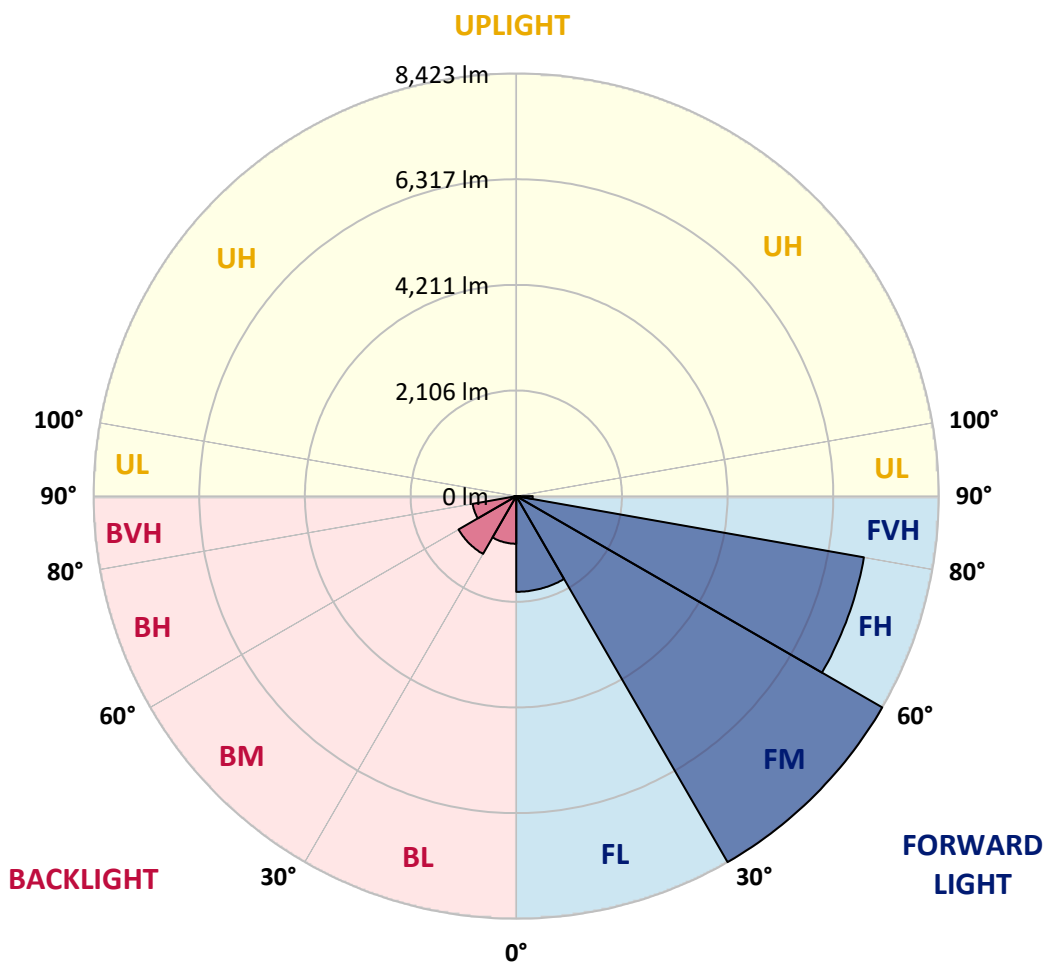
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1907.1	9.1			
FM (30°-60°)	8423.0	40.3			
FH (60°-80°)	7035.8	33.7			G3/7500
FVH (80°-90°)	329.5	1.6			G3/500
BL (0°-30°)	949.3	4.5	B2/1000		
BM (30°-60°)	1328.5	6.4	B2/2500		
BH (60°-80°)	883.8	4.2	B2/1000		G2/1000
BVH (80°-90°)	43.8	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°	5747.4	5747.4	5747.4	5747.4	5747.4	5747.4	5747.4	5747.4	5747.4	5747.4	5747.4
2.5°	5902.6	5912.0	5912.0	5930.9	5867.4	5897.9	5893.2	5865.0	5874.4	5825.0	5775.6
5°	5735.7	5728.6	5766.2	5770.9	5820.3	5834.4	5846.2	5827.4	5832.1	5723.9	5676.9
7.5°	5307.7	5305.3	5368.8	5422.9	5526.4	5622.8	5686.3	5667.5	5693.3	5625.1	5514.6
10°	4799.7	4853.8	4919.6	4973.7	5164.2	5286.5	5451.1	5467.6	5566.3	5549.9	5350.0
12.5°	4418.7	4442.3	4491.6	4646.9	4820.9	5023.1	5258.3	5279.4	5375.9	5422.9	5248.9
15°	4106.0	4127.1	4190.6	4305.9	4501.1	4740.9	5039.6	5093.7	5286.5	5303.0	5117.2
17.5°	3877.9	3894.3	3936.7	4051.9	4211.8	4519.9	4802.1	4898.5	5152.5	5232.4	4980.8
20°	3788.5	3753.2	3776.7	3849.6	4009.6	4247.1	4611.6	4696.2	5020.8	5178.3	4851.4
22.5°	3748.5	3718.0	3732.1	3727.4	3854.3	4023.7	4407.0	4496.3	4896.1	5114.8	4736.2
25°	3779.1	3779.1	3765.0	3753.2	3767.3	3877.9	4185.9	4324.7	4729.2	5060.7	4618.6
27.5°	3943.7	3880.2	3887.3	3837.9	3823.8	3823.8	4087.2	4169.5	4675.1	5030.2	4522.2
30°	4049.5	4080.1	4082.5	4009.6	3936.7	3805.0	3995.4	4075.4	4630.4	5067.8	4465.8
32.5°	4320.0	4305.9	4265.9	4251.8	4143.6	3995.4	4040.1	4094.2	4604.5	5152.5	4482.2
35°	4590.4	4583.4	4585.7	4578.7	4465.8	4247.1	4160.1	4233.0	4651.6	5300.6	4538.7
37.5°	4870.3	4889.1	4969.0	4969.0	4849.1	4611.6	4496.3	4475.2	4823.2	5542.8	4672.7
40°	5150.1	5197.1	5298.3	5458.2	5288.9	5067.8	4882.0	4849.1	5030.2	5867.4	4994.9
42.5°	5418.2	5495.8	5695.7	5933.2	5876.8	5655.7	5408.8	5371.2	5455.8	6349.4	5444.1
45°	5761.5	5827.4	6142.5	6507.0	6584.6	6389.4	6100.2	6069.6	6064.9	7054.9	6062.5
47.5°	6283.6	6354.2	6669.3	7036.1	7276.0	7306.6	6982.0	6949.1	6836.2	8007.4	6967.9
50°	6937.4	7052.6	7318.3	7746.3	8094.4	8421.2	8329.5	8233.1	8012.1	9115.0	8115.5
52.5°	7414.7	7555.8	7915.6	8463.6	9077.4	9597.1	9926.3	9926.3	9418.3	10330.8	9496.0
55°	7541.7	7626.4	8080.3	8872.8	9924.0	11238.5	11927.6	11875.8	11092.7	11610.1	11102.1
57.5°	7036.1	7146.7	7696.9	8527.1	10368.4	12774.1	13914.7	13926.5	12922.3	13096.3	12687.1
60°	5644.0	5679.2	6328.3	7438.3	9940.4	14011.1	16628.5	16673.2	15003.5	14420.3	13493.8
62.5°	3901.4	4014.3	4503.4	5477.0	8235.5	13872.4	19245.9	19466.9	16670.8	15118.7	13620.7
65°	2568.0	2636.2	2897.2	3489.8	5733.3	12024.0	20059.6	20741.5	17945.4	15158.7	13089.3
67.5°	1862.5	1874.3	1951.9	2257.6	3445.2	8647.0	18669.7	19631.6	18422.8	14824.8	11842.9
70°	1505.1	1514.5	1542.7	1737.9	2224.7	5411.1	15226.9	16734.3	16990.7	13242.1	9538.3
72.5°	1222.9	1234.6	1269.9	1453.3	1834.3	3010.1	11135.0	12971.7	13820.6	9797.0	6340.0
75°	961.8	971.2	1055.9	1237.0	1723.8	2067.1	7386.5	9185.5	9300.8	5726.3	2967.8
77.5°	658.5	674.9	778.4	1048.8	1622.6	1808.4	4604.5	5883.8	5279.4	2241.1	1020.6
80°	418.6	442.1	503.3	794.9	1434.5	1726.1	2864.3	3513.4	2311.7	766.6	491.5
82.5°	246.9	270.4	331.6	515.0	1126.4	1601.5	2017.7	2198.8	1084.1	392.7	296.3
85°	136.4	152.9	199.9	310.4	660.8	1422.7	1615.6	1578.0	620.8	209.3	185.8
87.5°	44.7	51.7	72.9	124.6	272.8	670.2	968.9	910.1	322.2	96.4	72.9
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°	5747.4	5747.4	5747.4	5747.4	5747.4	5747.4	5747.4	5747.4	5747.4	5747.4	5747.4
2.5°	5742.7	5735.7	5629.8	5549.9	5413.5	5300.6	5255.9	5194.8	5192.4	5147.8	5136.0
5°	5604.0	5531.1	5368.8	5213.6	4971.4	4809.1	4661.0	4557.5	4515.2	4423.4	4402.3
7.5°	5425.3	5328.8	5079.6	4788.0	4503.4	4249.4	4019.0	3788.5	3659.2	3614.5	3565.1
10°	5239.5	5070.2	4700.9	4374.1	3976.6	3586.3	3224.1	2899.6	2723.2	2598.6	2544.5
12.5°	5091.3	4865.6	4395.2	3906.1	3381.7	2859.6	2438.7	2097.7	1897.8	1803.7	1761.4
15°	4924.3	4625.7	4061.3	3442.8	2789.1	2196.4	1784.9	1516.8	1436.9	1392.2	1385.1
17.5°	4748.0	4402.3	3699.1	2986.6	2210.5	1653.2	1387.5	1279.3	1244.0	1225.2	1215.8
20°	4583.4	4202.4	3327.6	2478.6	1730.8	1326.3	1201.7	1145.3	1142.9	1152.3	1150.0
22.5°	4350.5	3941.4	2960.7	2008.3	1382.8	1154.7	1074.7	1060.6	1074.7	1086.5	1091.2
25°	4218.9	3727.4	2551.5	1594.4	1142.9	1025.3	999.5	994.7	1015.9	1030.0	1027.7
27.5°	4082.5	3506.3	2170.6	1276.9	1001.8	933.6	928.9	933.6	954.8	975.9	973.6
30°	3976.6	3329.9	1813.1	1067.6	893.6	867.8	863.1	867.8	879.5	881.9	881.9
32.5°	3889.6	3120.6	1509.8	926.5	827.8	806.6	811.3	809.0	811.3	813.7	816.0
35°	3837.9	2996.0	1260.5	839.5	773.7	757.2	754.9	747.8	750.2	752.5	750.2
37.5°	3948.4	2934.9	1062.9	778.4	736.1	722.0	717.3	712.5	705.5	705.5	705.5
40°	4115.4	2901.9	943.0	738.4	707.8	691.4	677.3	672.6	672.6	674.9	677.3
42.5°	4447.0	2956.0	860.7	707.8	672.6	653.8	639.6	642.0	649.1	656.1	651.4
45°	4926.7	3120.6	823.1	684.3	651.4	625.5	616.1	613.8	620.8	632.6	642.0
47.5°	5554.6	3377.0	809.0	663.2	637.3	602.0	590.3	597.3	606.7	623.2	616.1
50°	6582.3	3953.1	820.7	644.4	616.1	590.3	576.2	569.1	576.2	587.9	592.6
52.5°	7925.1	4999.6	865.4	634.9	602.0	580.9	557.3	545.6	552.6	562.0	562.0
55°	9531.2	6429.4	990.0	623.2	578.5	566.7	540.9	517.4	522.1	522.1	519.7
57.5°	10946.9	7508.8	1138.2	606.7	564.4	547.9	515.0	486.8	482.1	484.4	486.8
60°	11581.9	7795.7	1208.7	602.0	564.4	524.4	479.7	451.5	444.5	439.8	439.8
62.5°	11471.3	7299.5	1065.3	580.9	578.5	505.6	446.8	416.2	406.8	397.4	399.8
65°	10803.5	6591.7	839.5	552.6	580.9	493.8	413.9	383.3	366.9	355.1	352.7
67.5°	9583.0	5627.5	665.5	531.5	557.3	472.7	385.7	350.4	336.3	324.5	319.8
70°	7497.1	4411.7	578.5	503.3	500.9	420.9	352.7	322.2	301.0	286.9	286.9
72.5°	4860.9	2789.1	496.2	446.8	432.7	352.7	305.7	286.9	270.4	258.7	258.7
75°	2201.1	1295.8	399.8	373.9	352.7	282.2	258.7	249.3	235.2	223.4	223.4
77.5°	790.2	552.6	298.7	294.0	263.4	218.7	209.3	202.2	192.8	181.1	181.1
80°	442.1	350.4	223.4	214.0	183.4	162.3	150.5	150.5	145.8	138.7	136.4
82.5°	279.8	228.1	164.6	143.5	119.9	108.2	103.5	101.1	98.8	89.4	87.0
85°	176.4	155.2	108.2	84.7	70.5	54.1	51.7	49.4	44.7	40.0	40.0
87.5°	80.0	89.4	42.3	25.9	18.8	11.8	7.1	2.4	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)