

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: P484477

Luminaire Tested: **IFLD-S-SA3D-760-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484477
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-760-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

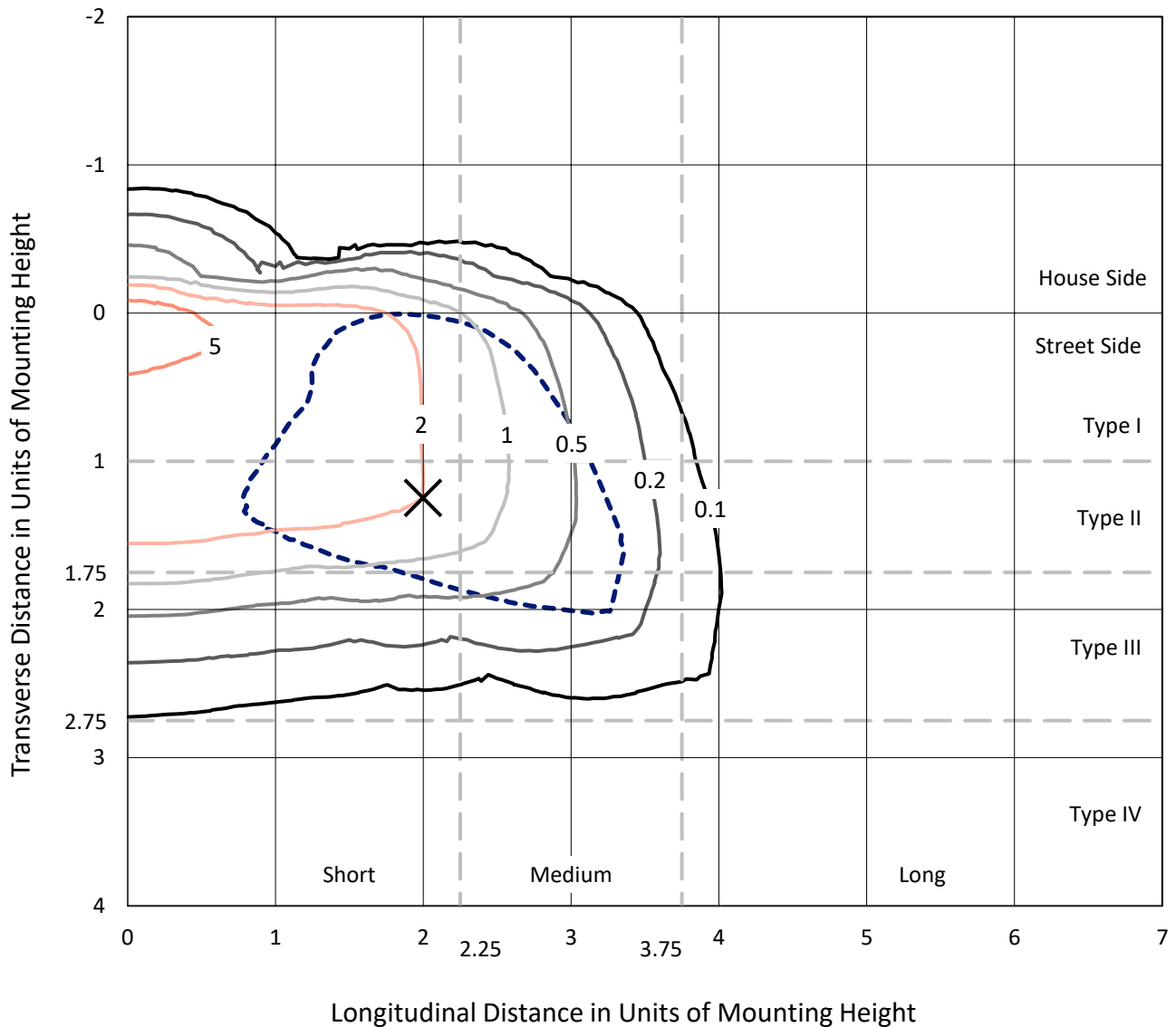
Lumens per Lamp: N/A
Luminaire Lumens: 19937.9 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 184.1
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

REPORT NUMBER: P484477
 CATALOG NUMBER: IFLD-S-SA3D-760-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

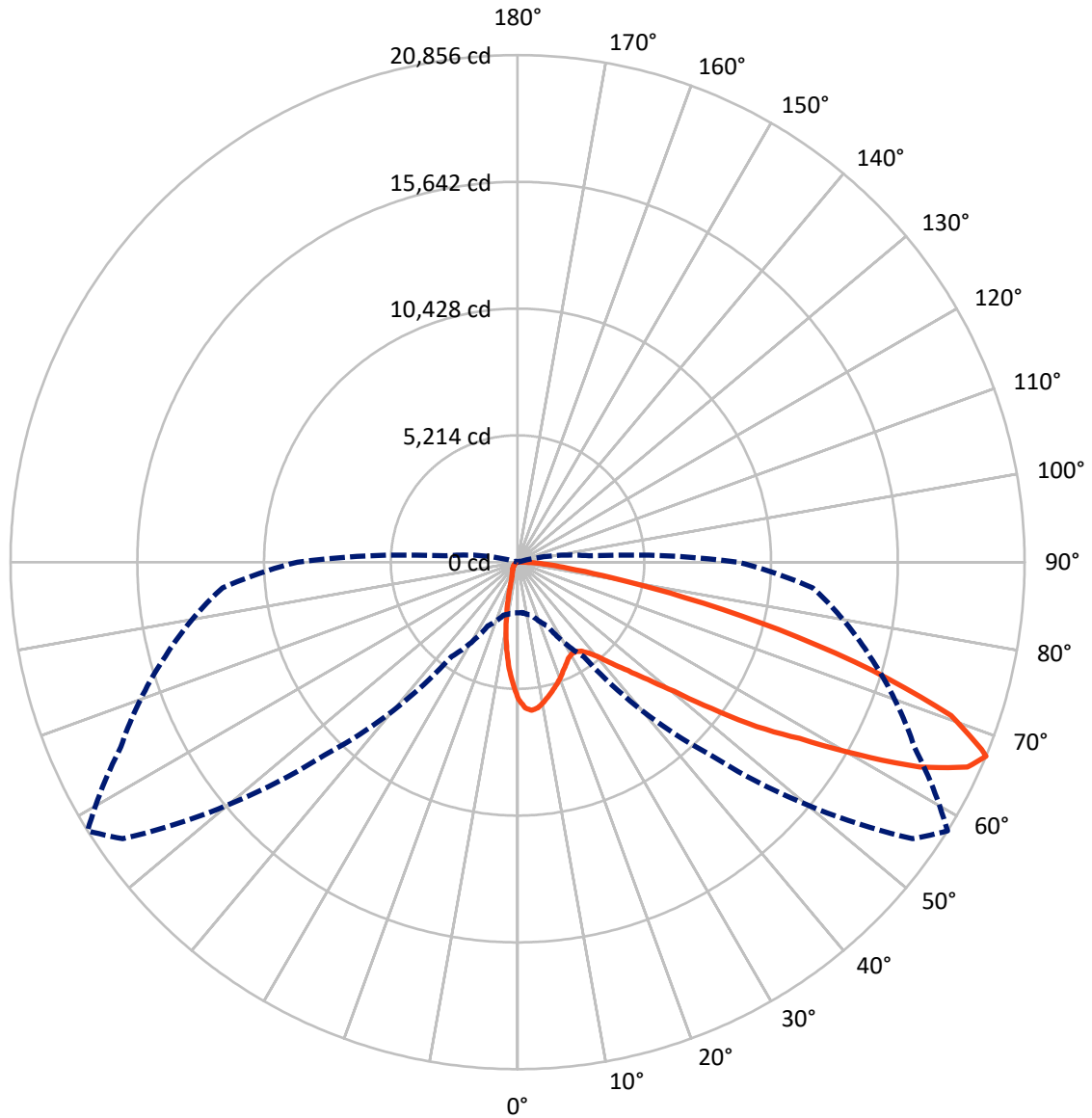
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type III - Short - N/A

REPORT NUMBER: P484477
CATALOG NUMBER: IFLD-S-SA3D-760-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1648.0	0.0	1648.0
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	18289.9	0.0	18289.9
	% Fixture	91.7	0.0	91.7
Total	Lumens	19937.9	0.0	19937.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.2	2.2
10°-20°	929.6	4.7
20°-30°	1233.4	6.2
30°-40°	1709.1	8.6
40°-50°	2788.8	14.0
50°-60°	4901.9	24.6
60°-70°	5429.2	27.2
70°-80°	2249.9	11.3
80°-90°	247.7	1.2
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°	19937.9	100.0
0°-180°	19937.9	100.0

Coefficient of Utilization



REPORT NUMBER: P484477

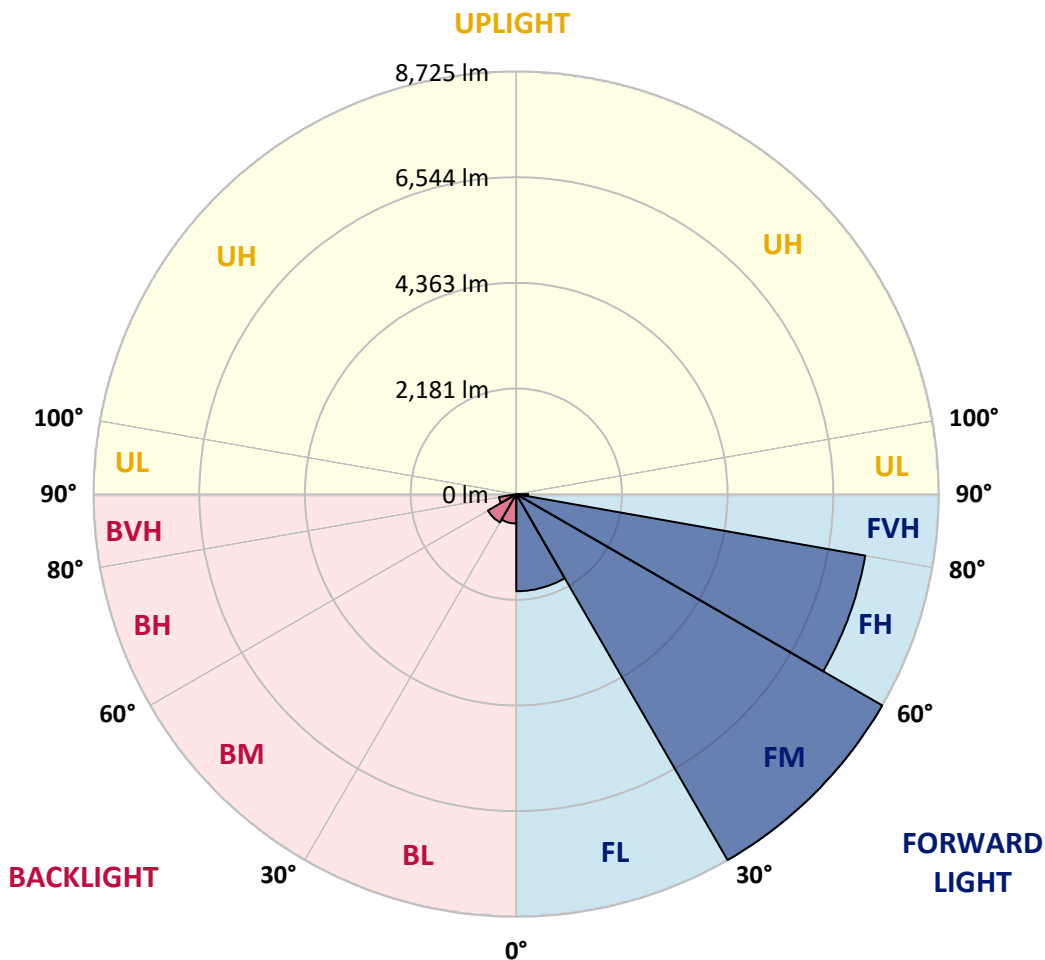
CATALOG NUMBER: IFLD-S-SA3D-760-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2004.3	10.1			
FM (30°-60°)	8725.2	43.8			
FH (60°-80°)	7316.8	36.7			G3/7500
FVH (80°-90°)	243.6	1.2			G3/500
BL (0°-30°)	607.0	3.0	B2/1000		
BM (30°-60°)	674.6	3.4	B1/1000		
BH (60°-80°)	362.3	1.8	B1/500		G1/500
BVH (80°-90°)	4.1	0.0			G0/10
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





REPORT NUMBER: P484477

CATALOG NUMBER: IFLD-S-SA3D-760-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5648.7	5648.7	5648.7	5648.7	5648.7	5648.7	5648.7	5648.7	5648.7	5648.7	5648.7
2.5°	6146.3	6167.5	6186.0	6151.6	6180.7	6138.4	6029.8	6006.0	5987.5	5826.0	5733.4
5°	6143.7	6119.8	6138.4	6154.3	6114.5	6146.3	6119.8	6122.5	6051.0	5905.4	5646.0
7.5°	5733.4	5722.8	5733.4	5810.1	5897.5	5966.3	6006.0	6045.7	5998.1	5781.0	5529.6
10°	5180.2	5233.1	5262.2	5399.9	5534.9	5661.9	5786.3	5860.4	5847.2	5759.9	5402.5
12.5°	4793.7	4777.8	4883.7	4973.7	5108.7	5365.5	5582.5	5651.3	5730.7	5609.0	5235.7
15°	4436.4	4394.0	4457.5	4613.7	4844.0	5047.8	5352.2	5455.4	5556.0	5587.8	5145.8
17.5°	4094.9	4116.1	4182.2	4322.5	4539.6	4825.5	5111.3	5259.6	5500.4	5458.1	5010.8
20°	3930.8	3975.8	3999.6	4071.1	4222.0	4507.8	4934.0	5053.1	5309.9	5455.4	4878.4
22.5°	3938.7	3938.7	3883.1	3925.5	4063.1	4285.5	4693.1	4825.5	5233.1	5317.8	4759.3
25°	4023.4	3970.5	3973.1	3922.8	3981.1	4102.8	4476.1	4637.5	5076.9	5331.0	4695.8
27.5°	4087.0	4076.4	4060.5	4047.2	3973.1	3991.7	4333.1	4465.5	5016.0	5315.2	4597.8
30°	4317.2	4269.6	4253.7	4224.6	4126.7	4036.7	4219.3	4386.1	4968.4	5352.2	4542.2
32.5°	4510.5	4518.4	4531.6	4446.9	4362.2	4139.9	4251.1	4383.4	4934.0	5436.9	4597.8
35°	4754.0	4788.4	4793.7	4767.2	4677.2	4457.5	4383.4	4497.2	4992.2	5587.8	4603.1
37.5°	5124.6	5087.5	5188.1	5198.7	5135.2	4844.0	4690.5	4735.5	5164.3	5828.7	4804.3
40°	5365.5	5410.4	5598.4	5714.9	5606.3	5341.6	5135.2	5127.2	5413.1	6207.2	5053.1
42.5°	5632.8	5733.4	5939.8	6191.3	6178.1	5931.9	5722.8	5688.4	5855.1	6755.1	5447.5
45°	5998.1	6088.1	6376.6	6755.1	6961.6	6752.5	6437.5	6368.7	6392.5	7501.6	6119.8
47.5°	6604.2	6580.4	6996.0	7369.2	7708.0	7546.6	7411.6	7210.4	7191.9	8380.4	7048.9
50°	7289.8	7284.5	7655.1	8078.6	8470.4	8785.4	8560.4	8340.7	8346.0	9574.2	8142.1
52.5°	7941.0	8044.2	8443.9	8864.8	9537.1	9875.9	10093.0	10005.6	9584.8	10640.9	9312.1
55°	8285.1	8375.1	8772.1	9497.4	10558.8	11429.7	12017.3	11943.2	11130.6	11842.6	10466.2
57.5°	7959.5	8020.4	8557.7	9508.0	11273.5	13216.4	13780.2	13687.6	12729.4	12761.1	11861.2
60°	6596.3	6691.6	7491.0	8605.4	10995.6	14592.9	16207.5	16067.2	14185.2	13923.2	12758.5
62.5°	4568.7	4632.2	5288.7	6675.7	9677.4	15072.0	18499.8	18576.6	15720.5	14828.4	13025.8
65°	2959.3	2954.0	3329.9	4269.6	6858.4	13621.4	19855.1	20331.5	17202.8	14966.1	12943.8
67°	2091.1	2083.2	2260.5	2895.8	4748.7	11223.2	19831.3	20855.6	18007.5	15005.8	12184.1
67.5°	1929.7	1921.7	2091.1	2662.9	4285.5	10437.1	19534.8	20585.6	18290.7	14950.2	11850.6
70°	1498.2	1477.0	1540.5	1834.4	2496.1	6749.8	16718.4	18910.1	17703.1	13563.2	9463.0
72.5°	1082.6	1106.4	1207.0	1506.1	1958.8	3631.7	12742.6	15291.7	14786.1	10222.7	6014.0
75°	754.4	775.6	937.0	1228.2	1797.3	2202.3	8616.0	11090.9	10299.4	5643.4	2562.3
77.5°	394.4	420.9	598.2	982.0	1633.2	1704.7	5148.4	7033.1	5458.1	2009.1	706.7
80°	182.6	195.9	299.1	696.2	1365.8	1498.2	3001.7	3912.3	2183.8	450.0	243.5
82.5°	79.4	87.4	137.6	399.7	968.8	1310.3	1858.2	2051.4	791.5	145.6	150.9
85°	15.9	18.5	52.9	211.8	468.5	794.1	1305.0	1217.6	397.0	71.5	119.1
87.5°	0.0	0.0	13.2	60.9	127.1	235.6	553.2	553.2	121.8	37.1	45.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P484477

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5648.7	5648.7	5648.7	5648.7	5648.7	5648.7	5648.7	5648.7	5648.7	5648.7	5648.7
2.5°	5651.3	5556.0	5346.9	5153.7	5016.0	4859.9	4653.4	4560.8	4526.4	4478.7	4407.2
5°	5503.1	5386.6	5029.3	4669.3	4274.9	3975.8	3658.1	3472.9	3332.6	3245.2	3216.1
7.5°	5294.0	5055.8	4574.0	3997.0	3486.1	3041.4	2559.6	2234.1	2024.9	1940.2	1860.8
10°	5127.2	4817.5	4084.3	3367.0	2686.7	2035.5	1492.9	1207.0	990.0	907.9	897.3
12.5°	4910.2	4539.6	3626.4	2723.8	1868.8	1212.3	825.9	717.3	656.5	645.9	637.9
15°	4730.2	4288.1	3192.3	2109.7	1209.7	757.0	643.2	616.7	600.9	595.6	598.2
17.5°	4608.4	4018.1	2747.6	1535.3	796.7	619.4	592.9	577.0	569.1	566.5	558.5
20°	4367.5	3790.5	2308.2	1074.7	622.0	571.8	550.6	537.3	529.4	526.8	524.1
22.5°	4229.9	3502.0	1868.8	749.1	553.2	518.8	502.9	492.3	479.1	471.2	468.5
25°	4092.2	3290.2	1477.0	582.3	502.9	479.1	455.3	442.0	420.9	410.3	407.6
27.5°	3930.8	3081.1	1138.2	505.6	452.6	428.8	405.0	383.8	357.3	346.8	341.5
30°	3838.1	2877.3	857.6	452.6	415.6	383.8	354.7	328.2	299.1	280.6	275.3
32.5°	3790.5	2692.0	643.2	412.9	375.9	341.5	304.4	272.6	246.2	230.3	227.6
35°	3732.3	2512.0	505.6	375.9	338.8	301.8	264.7	232.9	206.5	193.2	187.9
37.5°	3793.1	2406.1	420.9	346.8	309.7	267.3	227.6	195.9	174.7	161.5	158.8
40°	3959.9	2318.8	365.3	320.3	280.6	235.6	198.5	166.8	148.2	137.6	132.3
42.5°	4216.7	2318.8	330.9	293.8	254.1	206.5	169.4	145.6	127.1	116.5	113.8
45°	4682.5	2390.2	301.8	267.3	222.3	177.3	145.6	121.8	103.2	92.6	90.0
47.5°	5336.3	2554.3	277.9	243.5	198.5	156.2	127.1	103.2	84.7	74.1	71.5
50°	6215.1	2927.6	254.1	214.4	177.3	135.0	105.9	82.1	66.2	55.6	52.9
52.5°	7311.0	3457.0	230.3	198.5	150.9	113.8	84.7	66.2	50.3	42.4	39.7
55°	8470.4	4105.5	201.2	177.3	129.7	95.3	68.8	50.3	37.1	31.8	29.1
57.5°	9637.7	4605.8	177.3	153.5	105.9	76.8	55.6	39.7	26.5	21.2	18.5
60°	10257.1	4653.4	153.5	127.1	84.7	60.9	42.4	29.1	18.5	13.2	10.6
62.5°	10352.4	4229.9	132.3	103.2	68.8	47.6	29.1	21.2	10.6	5.3	5.3
65°	9862.7	3525.8	113.8	82.1	52.9	34.4	21.2	13.2	5.3	2.6	0.0
67°	9068.6	2954.0	97.9	68.8	42.4	26.5	15.9	7.9	2.6	0.0	0.0
67.5°	8761.5	2795.2	92.6	63.5	39.7	23.8	13.2	7.9	2.6	0.0	0.0
70°	6800.1	1995.8	68.8	45.0	29.1	18.5	10.6	5.3	0.0	0.0	0.0
72.5°	4166.4	1167.3	52.9	31.8	21.2	13.2	7.9	2.6	0.0	0.0	0.0
75°	1747.0	402.3	45.0	23.8	15.9	7.9	5.3	2.6	0.0	0.0	0.0
77.5°	455.3	150.9	31.8	15.9	10.6	7.9	5.3	2.6	0.0	0.0	0.0
80°	185.3	68.8	21.2	10.6	10.6	7.9	5.3	2.6	0.0	0.0	0.0
82.5°	121.8	31.8	13.2	10.6	7.9	5.3	2.6	0.0	0.0	0.0	0.0
85°	92.6	18.5	7.9	7.9	5.3	2.6	0.0	0.0	0.0	0.0	0.0
87.5°	39.7	10.6	7.9	5.3	5.3	0.0	0.0	0.0	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)