

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: P484307

Luminaire Tested: **IFLD-L-SA7D-727-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484307
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-727-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

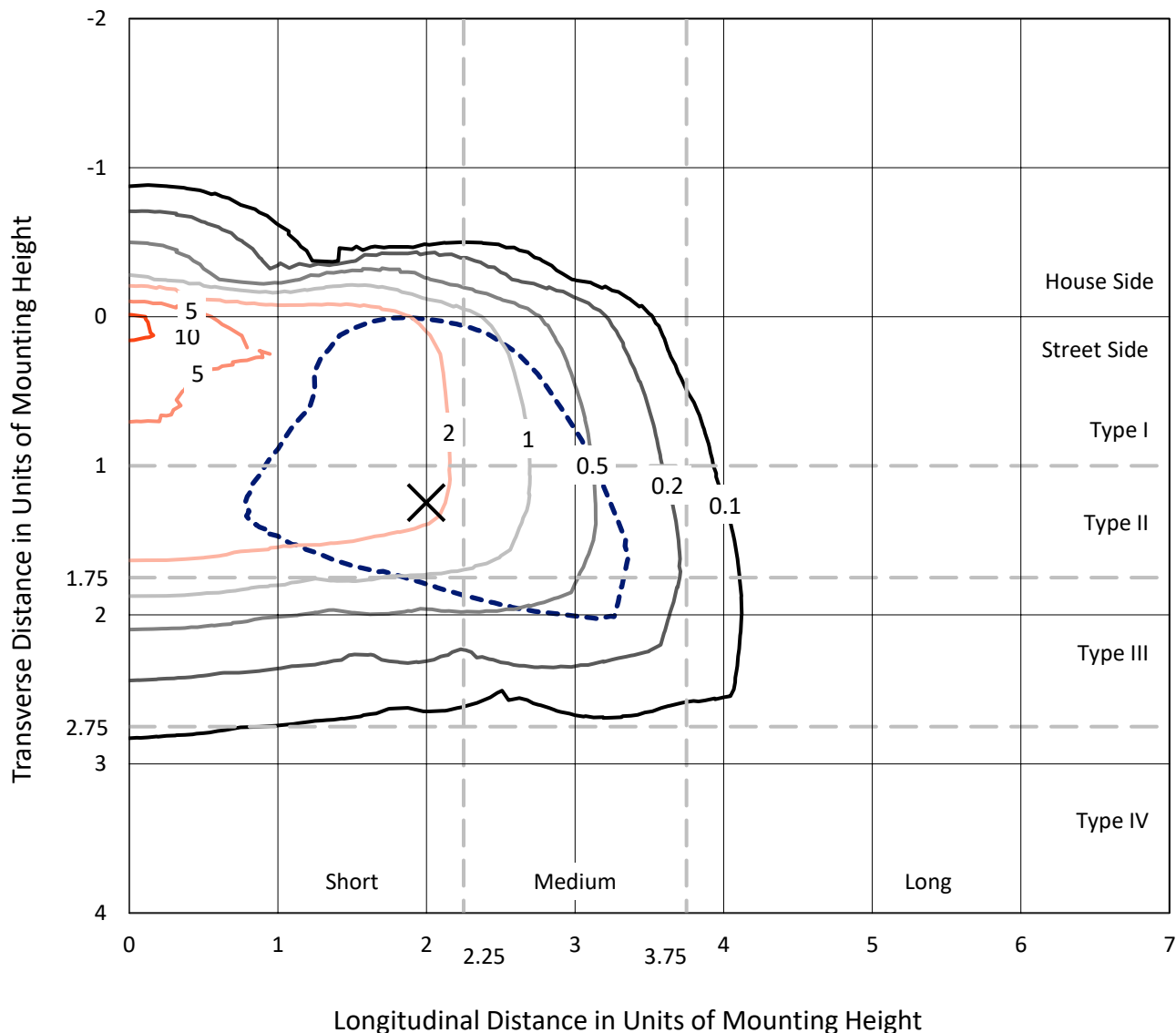
Lumens per Lamp: N/A
Luminaire Lumens: 34115.8 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6
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

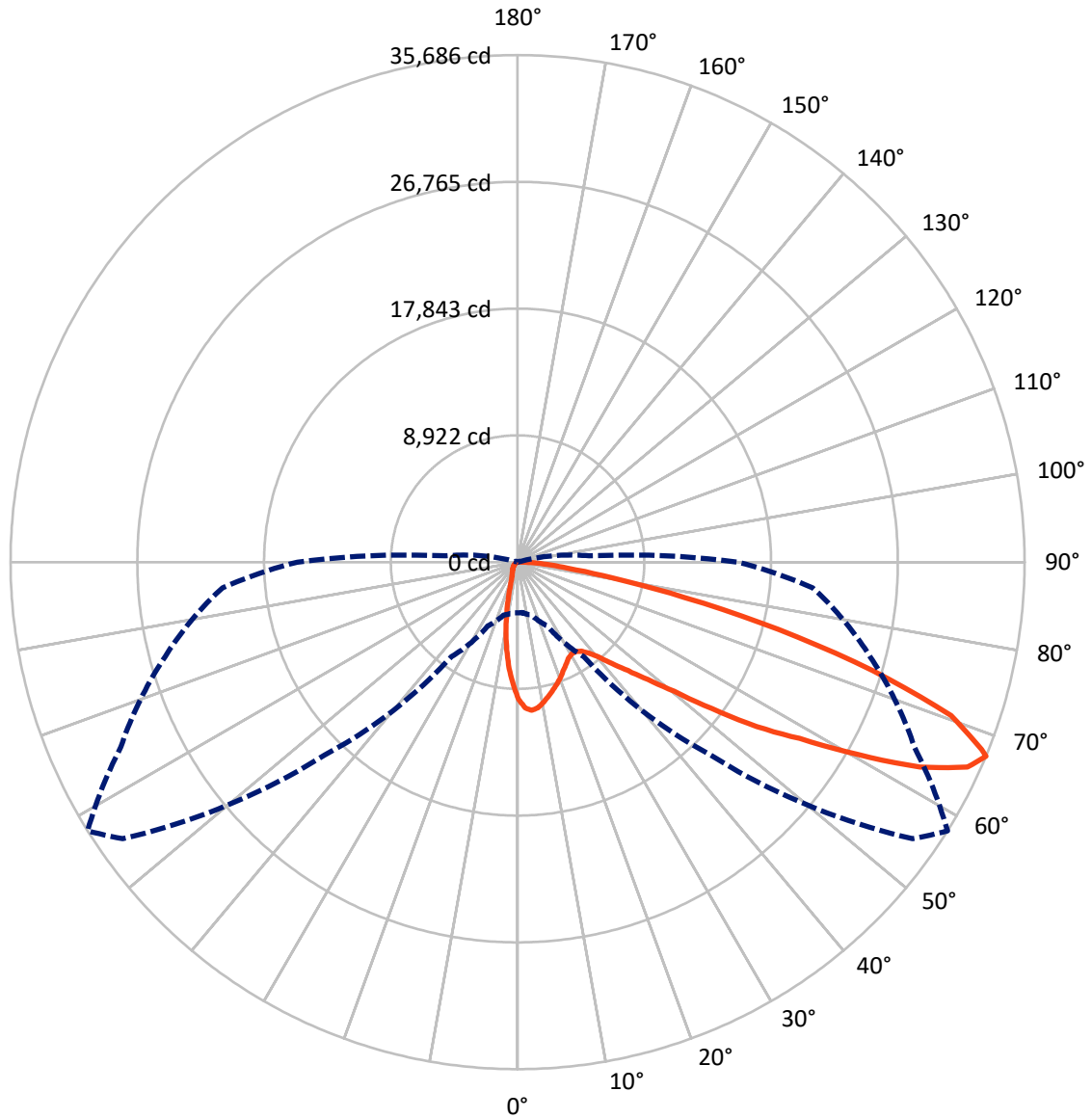
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.8 fc
 Type III - Short - N/A

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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	2819.9	0.0	2819.9
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	31295.9	0.0	31295.9
	% Fixture	91.7	0.0	91.7
Total	Lumens	34115.8	0.0	34115.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	766.9	2.2
10°-20°	1590.7	4.7
20°-30°	2110.5	6.2
30°-40°	2924.5	8.6
40°-50°	4772.0	14.0
50°-60°	8387.6	24.6
60°-70°	9289.9	27.2
70°-80°	3849.8	11.3
80°-90°	423.8	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°	34115.8	100.0
0°-180°	34115.8	100.0



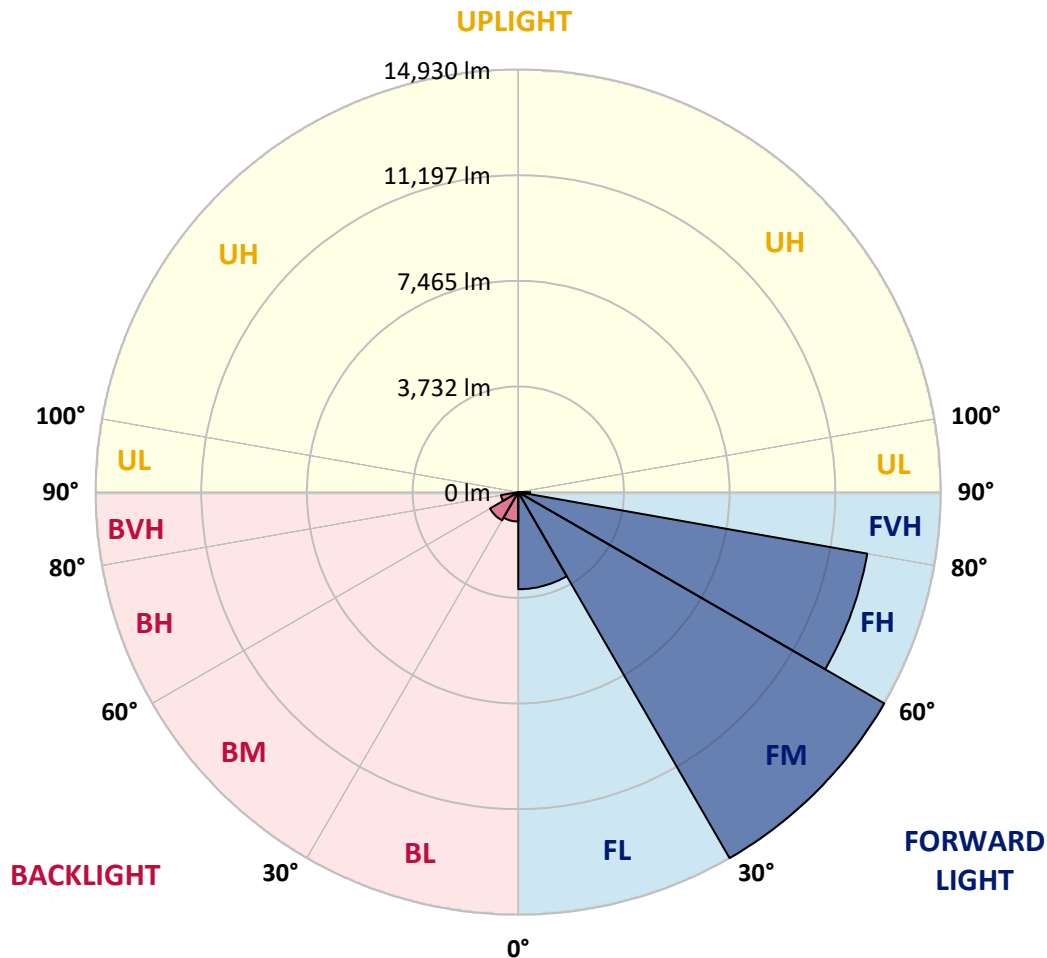
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3429.6	10.1			
FM (30°-60°)	14929.8	43.8			
FH (60°-80°)	12519.7	36.7			G5
FVH (80°-90°)	416.8	1.2			G3/500
BL (0°-30°)	1038.6	3.0	B3/2500		
BM (30°-60°)	1154.4	3.4	B2/2500		
BH (60°-80°)	620.0	1.8	B2/1000		G2/1000
BVH (80°-90°)	7.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	9665.5	9665.5	9665.5	9665.5	9665.5	9665.5	9665.5	9665.5	9665.5	9665.5	9665.5
2.5°	10517.0	10553.2	10584.9	10526.0	10575.8	10503.4	10317.7	10276.9	10245.2	9968.9	9810.4
5°	10512.4	10471.7	10503.4	10530.6	10462.6	10517.0	10471.7	10476.2	10353.9	10104.8	9660.9
7.5°	9810.4	9792.3	9810.4	9941.7	10091.2	10209.0	10276.9	10344.9	10263.3	9891.9	9461.6
10°	8863.8	8954.4	9004.2	9239.7	9470.7	9688.1	9901.0	10027.8	10005.2	9855.7	9244.2
12.5°	8202.5	8175.3	8356.5	8510.5	8741.5	9180.8	9552.2	9670.0	9805.9	9597.5	8958.9
15°	7591.1	7518.6	7627.3	7894.5	8288.6	8637.3	9158.2	9334.8	9506.9	9561.3	8804.9
17.5°	7006.8	7043.0	7156.2	7396.3	7767.7	8256.9	8746.0	8999.7	9411.8	9339.4	8573.9
20°	6726.0	6803.0	6843.7	6966.0	7224.2	7713.3	8442.6	8646.4	9085.7	9334.8	8347.4
22.5°	6739.6	6739.6	6644.4	6716.9	6952.4	7332.9	8030.4	8256.9	8954.4	9099.3	8143.6
25°	6884.5	6793.9	6798.4	6712.4	6812.0	7020.4	7659.0	7935.3	8687.1	9122.0	8034.9
27.5°	6993.2	6975.1	6947.9	6925.3	6798.4	6830.1	7414.4	7640.9	8583.0	9094.8	7867.3
30°	7387.2	7305.7	7278.5	7228.7	7061.1	6907.1	7219.7	7505.0	8501.4	9158.2	7772.2
32.5°	7717.9	7731.5	7754.1	7609.2	7464.2	7083.8	7274.0	7500.5	8442.6	9303.1	7867.3
35°	8134.6	8193.5	8202.5	8157.2	8003.2	7627.3	7500.5	7695.2	8542.2	9561.3	7876.4
37.5°	8768.7	8705.3	8877.4	8895.5	8786.8	8288.6	8025.9	8102.9	8836.6	9973.5	8220.6
40°	9180.8	9257.8	9579.4	9778.7	9593.0	9140.1	8786.8	8773.2	9262.4	10621.1	8646.4
42.5°	9638.3	9810.4	10163.7	10594.0	10571.3	10150.1	9792.3	9733.4	10018.7	11558.7	9321.2
45°	10263.3	10417.3	10911.0	11558.7	11912.0	11554.2	11015.2	10897.4	10938.2	12836.0	10471.7
47.5°	11300.5	11259.8	11970.9	12609.5	13189.2	12913.0	12682.0	12337.7	12306.0	14339.7	12061.4
50°	12473.6	12464.6	13098.7	13823.3	14493.7	15032.7	14647.7	14271.7	14280.8	16382.4	13932.0
52.5°	13587.8	13764.5	14448.4	15168.5	16319.0	16898.7	17270.1	17120.6	16400.5	18207.7	15934.0
55°	14176.6	14330.6	15010.0	16251.0	18067.3	19557.4	20562.9	20436.1	19045.6	20264.0	17908.7
57.5°	13619.5	13723.7	14643.1	16269.1	19290.2	22614.7	23579.4	23420.9	21781.3	21835.6	20295.7
60°	11286.9	11450.0	12817.8	14724.7	18814.6	24969.9	27732.7	27492.7	24272.4	23824.0	21831.1
62.5°	7817.5	7926.2	9049.5	11422.8	16559.0	25789.7	31655.1	31786.4	26899.3	25373.0	22288.5
65°	5063.7	5054.7	5697.8	7305.7	11735.3	23307.6	33974.1	34789.3	29435.7	25608.5	22148.1
67°	3578.1	3564.5	3868.0	4955.0	8125.5	19204.1	33933.3	35686.1	30812.6	25676.4	20848.2
67.5°	3301.8	3288.3	3578.1	4556.4	7332.9	17858.9	33426.0	35224.1	31297.3	25581.3	20277.5
70°	2563.6	2527.3	2636.0	3138.8	4271.1	11549.6	28606.9	32357.1	30291.8	23208.0	16192.1
72.5°	1852.5	1893.2	2065.3	2577.2	3351.7	6214.2	21803.9	26165.6	25300.5	17492.0	10290.5
75°	1290.8	1327.1	1603.4	2101.6	3075.4	3768.4	14742.8	18977.6	17623.4	9656.4	4384.3
77.5°	674.9	720.2	1023.6	1680.4	2794.6	2916.9	8809.4	12034.3	9339.4	3437.7	1209.3
80°	312.5	335.2	511.8	1191.2	2337.1	2563.6	5136.2	6694.3	3736.6	770.0	416.7
82.5°	135.9	149.5	235.5	683.9	1657.7	2242.0	3179.5	3510.2	1354.3	249.1	258.2
85°	27.2	31.7	90.6	362.3	801.7	1358.8	2232.9	2083.5	679.4	122.3	203.8
87.5°	0.0	0.0	22.6	104.2	217.4	403.1	946.6	946.6	208.3	63.4	77.0
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°	9665.5	9665.5	9665.5	9665.5	9665.5	9665.5	9665.5	9665.5	9665.5	9665.5	9665.5
2.5°	9670.0	9506.9	9149.1	8818.5	8583.0	8315.7	7962.5	7803.9	7745.1	7663.5	7541.2
5°	9416.4	9217.1	8605.6	7989.6	7314.8	6803.0	6259.5	5942.4	5702.4	5552.9	5503.1
7.5°	9058.5	8650.9	7826.6	6839.2	5965.0	5204.1	4379.8	3822.7	3464.9	3320.0	3184.1
10°	8773.2	8243.3	6988.7	5761.2	4597.2	3483.0	2554.5	2065.3	1693.9	1553.5	1535.4
12.5°	8401.8	7767.7	6205.1	4660.6	3197.7	2074.4	1413.1	1227.4	1123.3	1105.1	1091.6
15°	8093.8	7337.4	5462.3	3609.8	2069.9	1295.4	1100.6	1055.3	1028.1	1019.1	1023.6
17.5°	7885.5	6875.4	4701.4	2627.0	1363.3	1059.8	1014.6	987.4	973.8	969.3	955.7
20°	7473.3	6485.9	3949.5	1838.9	1064.4	978.3	942.1	919.4	905.9	901.3	896.8
22.5°	7237.8	5992.2	3197.7	1281.8	946.6	887.7	860.6	842.4	819.8	806.2	801.7
25°	7002.3	5629.9	2527.3	996.4	860.6	819.8	779.0	756.4	720.2	702.0	697.5
27.5°	6726.0	5272.1	1947.6	865.1	774.5	733.7	693.0	656.7	611.5	593.3	584.3
30°	6567.4	4923.3	1467.5	774.5	711.1	656.7	606.9	561.6	511.8	480.1	471.0
32.5°	6485.9	4606.3	1100.6	706.6	643.2	584.3	520.9	466.5	421.2	394.0	389.5
35°	6386.3	4298.3	865.1	643.2	579.7	516.3	452.9	398.6	353.3	330.6	321.6
37.5°	6490.4	4117.1	720.2	593.3	529.9	457.5	389.5	335.2	298.9	276.3	271.8
40°	6775.8	3967.6	625.0	548.0	480.1	403.1	339.7	285.3	253.6	235.5	226.5
42.5°	7215.1	3967.6	566.2	502.7	434.8	353.3	289.9	249.1	217.4	199.3	194.8
45°	8012.3	4089.9	516.3	457.5	380.5	303.5	249.1	208.3	176.6	158.5	154.0
47.5°	9131.0	4370.7	475.6	416.7	339.7	267.2	217.4	176.6	144.9	126.8	122.3
50°	10634.7	5009.4	434.8	366.9	303.5	231.0	181.2	140.4	113.2	95.1	90.6
52.5°	12509.8	5915.2	394.0	339.7	258.2	194.8	144.9	113.2	86.1	72.5	67.9
55°	14493.7	7024.9	344.2	303.5	221.9	163.1	117.8	86.1	63.4	54.4	49.8
57.5°	16491.1	7880.9	303.5	262.7	181.2	131.3	95.1	67.9	45.3	36.2	31.7
60°	17550.9	7962.5	262.7	217.4	144.9	104.2	72.5	49.8	31.7	22.6	18.1
62.5°	17714.0	7237.8	226.5	176.6	117.8	81.5	49.8	36.2	18.1	9.1	9.1
65°	16876.1	6033.0	194.8	140.4	90.6	58.9	36.2	22.6	9.1	4.5	0.0
67°	15517.3	5054.7	167.6	117.8	72.5	45.3	27.2	13.6	4.5	0.0	0.0
67.5°	14991.9	4782.9	158.5	108.7	67.9	40.8	22.6	13.6	4.5	0.0	0.0
70°	11635.7	3415.1	117.8	77.0	49.8	31.7	18.1	9.1	0.0	0.0	0.0
72.5°	7129.1	1997.4	90.6	54.4	36.2	22.6	13.6	4.5	0.0	0.0	0.0
75°	2989.3	688.4	77.0	40.8	27.2	13.6	9.1	4.5	0.0	0.0	0.0
77.5°	779.0	258.2	54.4	27.2	18.1	13.6	9.1	4.5	0.0	0.0	0.0
80°	317.0	117.8	36.2	18.1	18.1	13.6	9.1	4.5	0.0	0.0	0.0
82.5°	208.3	54.4	22.6	18.1	13.6	9.1	4.5	0.0	0.0	0.0	0.0
85°	158.5	31.7	13.6	13.6	9.1	4.5	0.0	0.0	0.0	0.0	0.0
87.5°	67.9	18.1	13.6	9.1	9.1	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)