

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: P484306

Luminaire Tested: **IFLD-L-SA7C-727-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484306
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-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

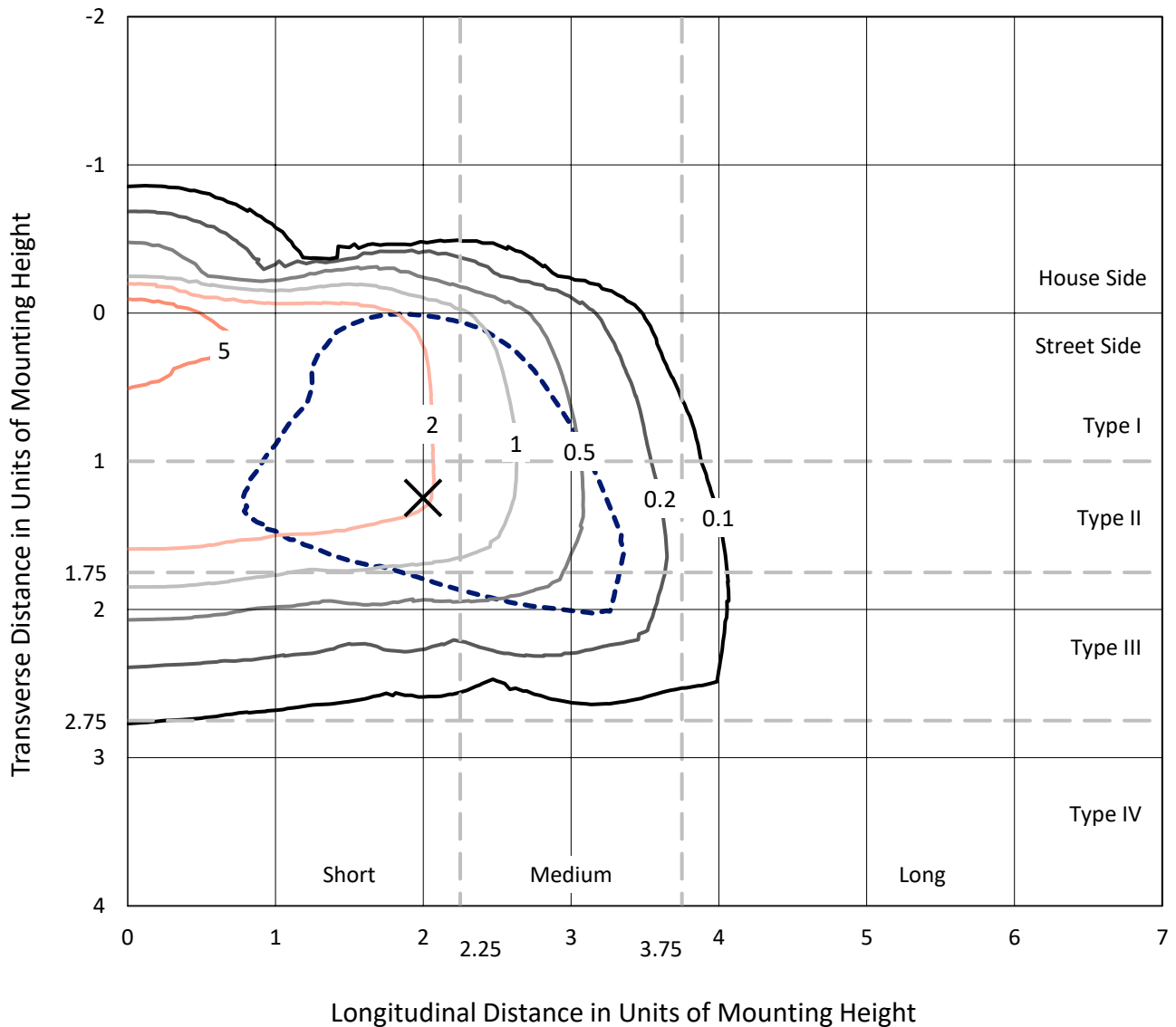
Lumens per Lamp: N/A
Luminaire Lumens: 31004.7 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 369
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

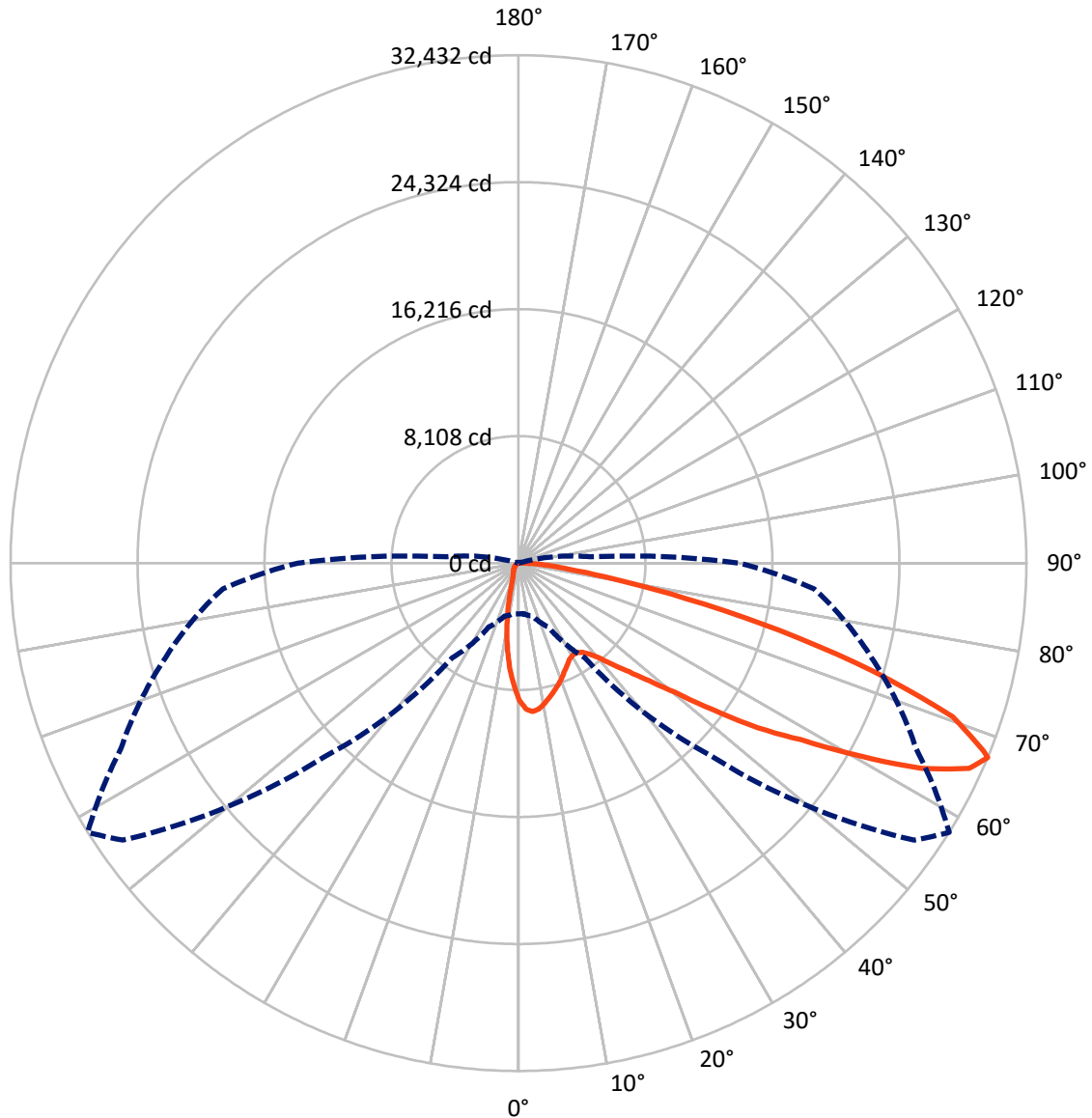
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.8 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	2562.7	0.0	2562.7
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	28442.0	0.0	28442.0
	% Fixture	91.7	0.0	91.7
Total	Lumens	31004.7	0.0	31004.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	697.0	2.2
10°-20°	1445.7	4.7
20°-30°	1918.1	6.2
30°-40°	2657.8	8.6
40°-50°	4336.8	14.0
50°-60°	7622.7	24.6
60°-70°	8442.8	27.2
70°-80°	3498.7	11.3
80°-90°	385.1	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°	31004.7	100.0
0°-180°	31004.7	100.0



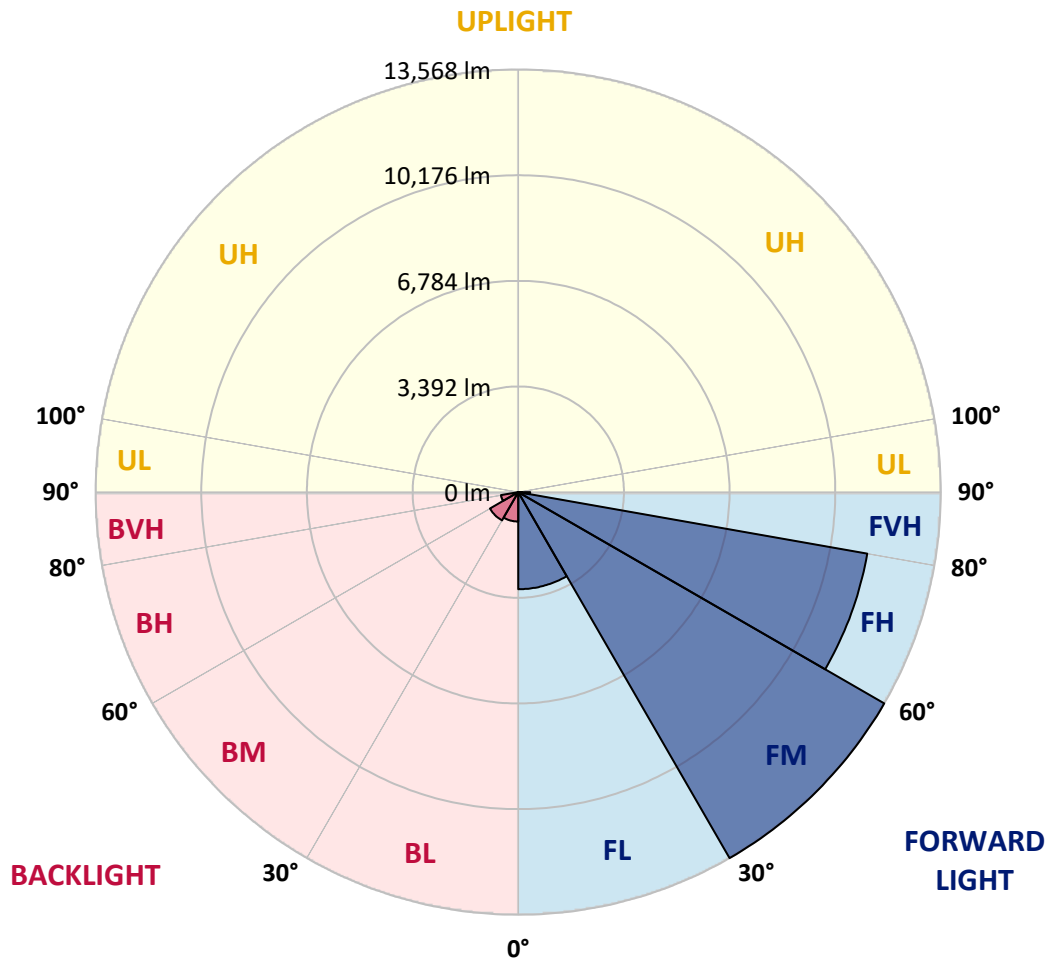
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3116.8	10.1			
FM (30°-60°)	13568.3	43.8			
FH (60°-80°)	11378.0	36.7			G4/12000
FVH (80°-90°)	378.8	1.2			G3/500
BL (0°-30°)	943.9	3.0	B2/1000		
BM (30°-60°)	1049.1	3.4	B2/2500		
BH (60°-80°)	563.4	1.8	B2/1000		G2/1000
BVH (80°-90°)	6.3	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8784.1	8784.1	8784.1	8784.1	8784.1	8784.1	8784.1	8784.1	8784.1	8784.1	8784.1
2.5°	9557.9	9590.8	9619.7	9566.1	9611.4	9545.6	9376.8	9339.8	9310.9	9059.8	8915.8
5°	9553.8	9516.8	9545.6	9570.3	9508.5	9557.9	9516.8	9520.9	9409.7	9183.3	8779.9
7.5°	8915.8	8899.3	8915.8	9035.2	9171.0	9278.0	9339.8	9401.5	9327.4	8989.9	8598.8
10°	8055.5	8137.8	8183.1	8397.1	8607.1	8804.6	8998.1	9113.4	9092.8	8956.9	8401.2
12.5°	7454.5	7429.8	7594.5	7734.4	7944.3	8343.6	8681.2	8788.2	8911.7	8722.3	8141.9
15°	6898.8	6833.0	6931.8	7174.6	7532.7	7849.7	8323.0	8483.6	8640.0	8689.4	8002.0
17.5°	6367.8	6400.8	6503.7	6721.8	7059.4	7503.9	7948.5	8179.0	8553.6	8487.7	7792.0
20°	6112.6	6182.6	6219.6	6330.8	6565.4	7010.0	7672.7	7857.9	8257.2	8483.6	7586.2
22.5°	6125.0	6125.0	6038.5	6104.4	6318.4	6664.2	7298.1	7503.9	8137.8	8269.5	7401.0
25°	6256.7	6174.4	6178.5	6100.3	6190.8	6380.2	6960.6	7211.7	7895.0	8290.1	7302.2
27.5°	6355.5	6339.0	6314.3	6293.7	6178.5	6207.3	6738.3	6944.1	7800.3	8265.4	7149.9
30°	6713.6	6639.5	6614.8	6569.5	6417.2	6277.3	6561.3	6820.6	7726.2	8323.0	7063.5
32.5°	7014.1	7026.4	7047.0	6915.3	6783.6	6437.8	6610.7	6816.5	7672.7	8454.8	7149.9
35°	7392.8	7446.3	7454.5	7413.4	7273.4	6931.8	6816.5	6993.5	7763.2	8689.4	7158.1
37.5°	7969.0	7911.4	8067.8	8084.3	7985.5	7532.7	7294.0	7364.0	8030.8	9064.0	7471.0
40°	8343.6	8413.6	8705.9	8887.0	8718.2	8306.6	7985.5	7973.2	8417.7	9652.6	7857.9
42.5°	8759.4	8915.8	9236.8	9627.9	9607.3	9224.5	8899.3	8845.8	9105.1	10504.6	8471.2
45°	9327.4	9467.4	9916.0	10504.6	10825.7	10500.5	10010.7	9903.7	9940.7	11665.4	9516.8
47.5°	10270.0	10233.0	10879.2	11459.6	11986.5	11735.4	11525.5	11212.6	11183.8	13032.0	10961.6
50°	11336.1	11327.9	11904.2	12562.8	13172.0	13661.8	13311.9	12970.3	12978.5	14888.4	12661.6
52.5°	12348.7	12509.3	13130.8	13785.3	14830.8	15357.7	15695.2	15559.4	14904.9	16547.3	14480.9
55°	12883.8	13023.8	13641.2	14769.1	16419.7	17773.9	18687.7	18572.5	17308.8	18416.1	16275.6
57.5°	12377.5	12472.2	13307.8	14785.5	17531.1	20552.4	21429.2	21285.1	19795.0	19844.4	18444.9
60°	10257.7	10405.9	11649.0	13381.9	17098.9	22692.8	25203.7	24985.6	22058.9	21651.4	19840.3
62.5°	7104.6	7203.4	8224.3	10381.2	15049.0	23437.9	28768.4	28887.8	24446.4	23059.2	20256.0
65°	4602.0	4593.7	5178.2	6639.5	10665.2	21182.2	30875.9	31616.9	26751.5	23273.2	20128.4
67°	3251.8	3239.5	3515.3	4503.2	7384.5	17452.9	30838.9	32431.9	28002.8	23335.0	18947.1
67.5°	3000.7	2988.4	3251.8	4140.9	6664.2	16230.3	30377.9	32012.0	28443.2	23248.5	18428.4
70°	2329.8	2296.9	2395.7	2852.6	3881.6	10496.4	25998.2	29406.4	27529.4	21091.6	14715.6
72.5°	1683.5	1720.6	1877.0	2342.1	3046.0	5647.5	19815.6	23779.5	22993.3	15896.9	9352.1
75°	1173.1	1206.1	1457.1	1909.9	2794.9	3424.7	13398.4	17247.1	16016.3	8775.8	3984.5
77.5°	613.3	654.5	930.3	1527.1	2539.7	2650.9	8006.1	10936.9	8487.7	3124.2	1099.0
80°	284.0	304.6	465.1	1082.6	2124.0	2329.8	4667.8	6083.8	3395.9	699.8	378.7
82.5°	123.5	135.8	214.0	621.6	1506.5	2037.5	2889.6	3190.1	1230.8	226.4	234.6
85°	24.7	28.8	82.3	329.3	728.6	1234.9	2029.3	1893.5	617.4	111.1	185.2
87.5°	0.0	0.0	20.6	94.7	197.6	366.3	860.3	860.3	189.3	57.6	70.0
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°	8784.1	8784.1	8784.1	8784.1	8784.1	8784.1	8784.1	8784.1	8784.1	8784.1	8784.1
2.5°	8788.2	8640.0	8314.8	8014.3	7800.3	7557.4	7236.4	7092.3	7038.8	6964.7	6853.5
5°	8557.7	8376.6	7820.9	7261.1	6647.7	6182.6	5688.6	5400.5	5182.3	5046.5	5001.2
7.5°	8232.5	7862.0	7112.9	6215.5	5421.1	4729.6	3980.4	3474.1	3148.9	3017.2	2893.7
10°	7973.2	7491.6	6351.4	5235.9	4178.0	3165.4	2321.6	1877.0	1539.5	1411.9	1395.4
12.5°	7635.6	7059.4	5639.3	4235.6	2906.1	1885.2	1284.3	1115.5	1020.8	1004.4	992.0
15°	7355.7	6668.3	4964.2	3280.6	1881.1	1177.2	1000.2	959.1	934.4	926.2	930.3
17.5°	7166.4	6248.5	4272.7	2387.4	1239.0	963.2	922.0	897.3	885.0	880.9	868.5
20°	6791.8	5894.5	3589.4	1671.2	967.3	889.1	856.2	835.6	823.2	819.1	815.0
22.5°	6577.8	5445.8	2906.1	1164.9	860.3	806.8	782.1	765.6	745.0	732.7	728.6
25°	6363.7	5116.5	2296.9	905.6	782.1	745.0	708.0	687.4	654.5	638.0	633.9
27.5°	6112.6	4791.3	1770.0	786.2	703.9	666.8	629.8	596.9	555.7	539.2	531.0
30°	5968.6	4474.4	1333.7	703.9	646.2	596.9	551.6	510.4	465.1	436.3	428.1
32.5°	5894.5	4186.2	1000.2	642.1	584.5	531.0	473.4	424.0	382.8	358.1	354.0
35°	5803.9	3906.3	786.2	584.5	526.9	469.3	411.6	362.2	321.1	300.5	292.3
37.5°	5898.6	3741.7	654.5	539.2	481.6	415.7	354.0	304.6	271.7	251.1	247.0
40°	6157.9	3605.8	568.0	498.1	436.3	366.3	308.7	259.3	230.5	214.0	205.8
42.5°	6557.2	3605.8	514.5	456.9	395.2	321.1	263.4	226.4	197.6	181.1	177.0
45°	7281.6	3717.0	469.3	415.7	345.8	275.8	226.4	189.3	160.5	144.1	140.0
47.5°	8298.3	3972.2	432.2	378.7	308.7	242.9	197.6	160.5	131.7	115.3	111.1
50°	9664.9	4552.6	395.2	333.4	275.8	209.9	164.6	127.6	102.9	86.4	82.3
52.5°	11369.1	5375.8	358.1	308.7	234.6	177.0	131.7	102.9	78.2	65.9	61.7
55°	13172.0	6384.3	312.8	275.8	201.7	148.2	107.0	78.2	57.6	49.4	45.3
57.5°	14987.2	7162.3	275.8	238.7	164.6	119.4	86.4	61.7	41.2	32.9	28.8
60°	15950.4	7236.4	238.7	197.6	131.7	94.7	65.9	45.3	28.8	20.6	16.5
62.5°	16098.6	6577.8	205.8	160.5	107.0	74.1	45.3	32.9	16.5	8.2	8.2
65°	15337.1	5482.8	177.0	127.6	82.3	53.5	32.9	20.6	8.2	4.1	0.0
67°	14102.2	4593.7	152.3	107.0	65.9	41.2	24.7	12.3	4.1	0.0	0.0
67.5°	13624.8	4346.8	144.1	98.8	61.7	37.0	20.6	12.3	4.1	0.0	0.0
70°	10574.6	3103.6	107.0	70.0	45.3	28.8	16.5	8.2	0.0	0.0	0.0
72.5°	6479.0	1815.3	82.3	49.4	32.9	20.6	12.3	4.1	0.0	0.0	0.0
75°	2716.7	625.7	70.0	37.0	24.7	12.3	8.2	4.1	0.0	0.0	0.0
77.5°	708.0	234.6	49.4	24.7	16.5	12.3	8.2	4.1	0.0	0.0	0.0
80°	288.1	107.0	32.9	16.5	16.5	12.3	8.2	4.1	0.0	0.0	0.0
82.5°	189.3	49.4	20.6	16.5	12.3	8.2	4.1	0.0	0.0	0.0	0.0
85°	144.1	28.8	12.3	12.3	8.2	4.1	0.0	0.0	0.0	0.0	0.0
87.5°	61.7	16.5	12.3	8.2	8.2	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)