

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: P484350

Luminaire Tested: **IFLD-L-SA8C-730-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484350  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-730-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

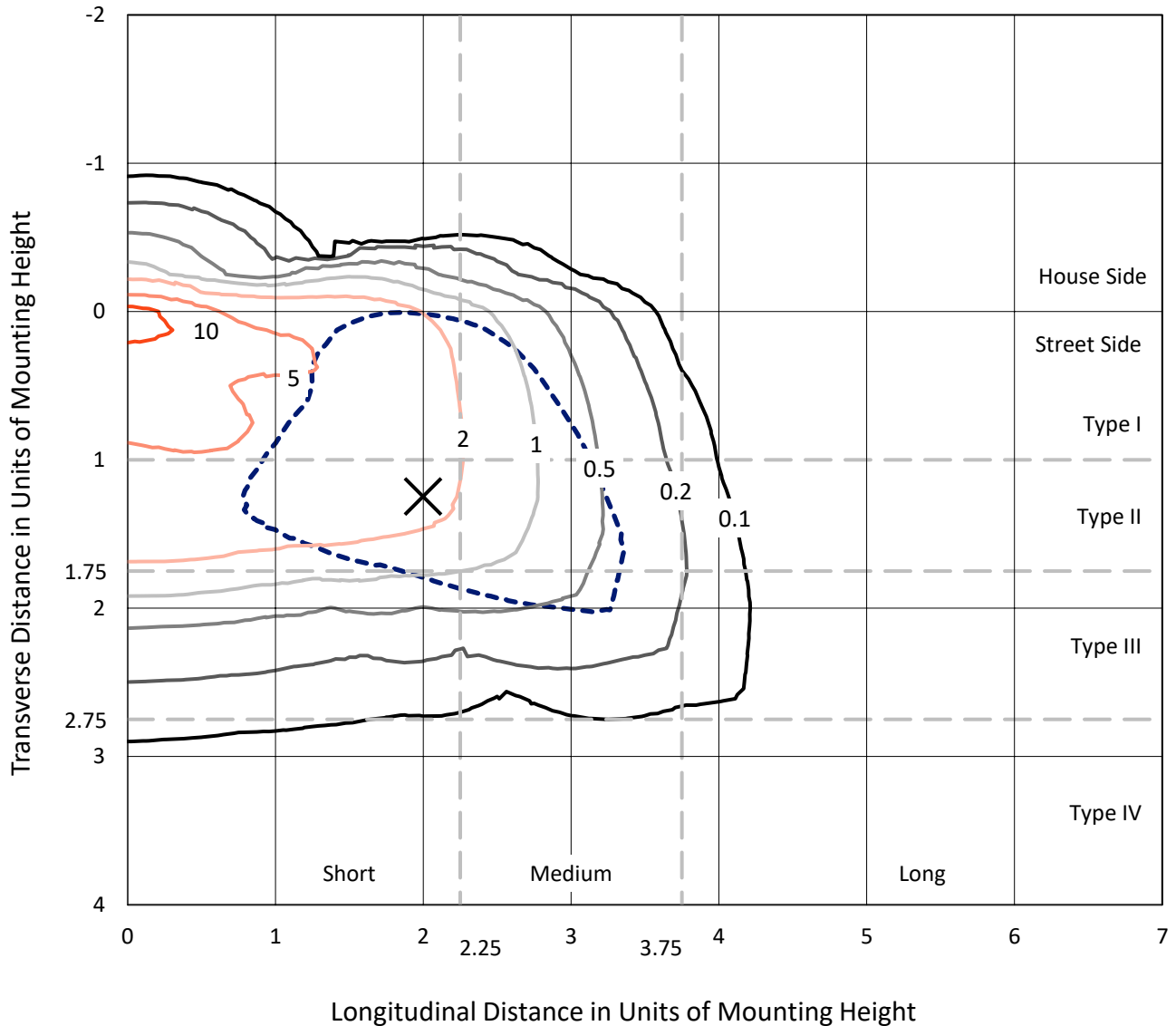
Lumens per Lamp: N/A  
Luminaire Lumens: 38582.2 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3  
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

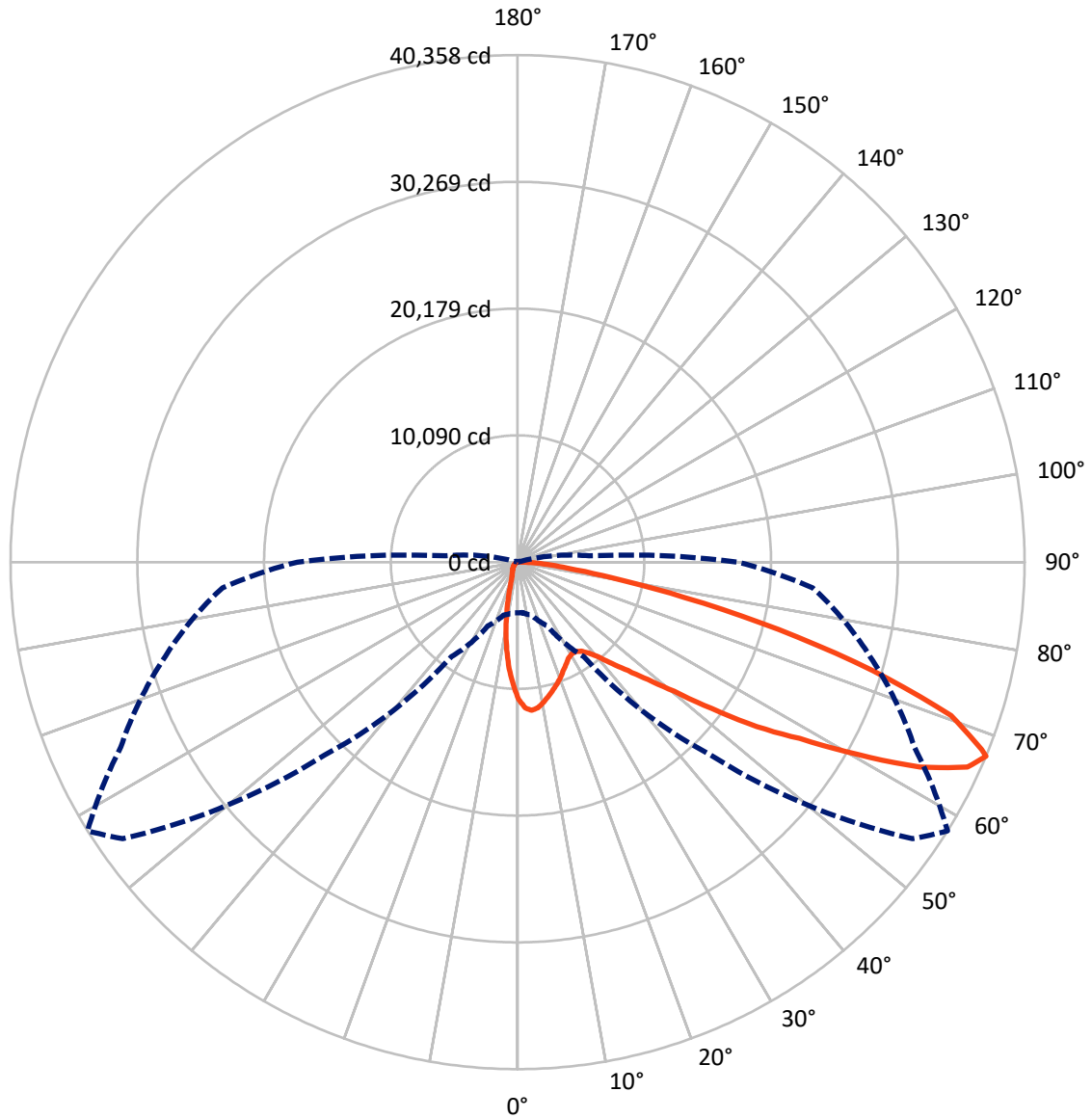
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.2 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
<b>House Side</b>	Lumens	3189.1	0.0	3189.1
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	35393.1	0.0	35393.1
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	38582.2	0.0	38582.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	867.3	2.2
10°-20°	1799.0	4.7
20°-30°	2386.8	6.2
30°-40°	3307.4	8.6
40°-50°	5396.7	14.0
50°-60°	9485.7	24.6
60°-70°	10506.2	27.2
70°-80°	4353.8	11.3
80°-90°	479.3	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°	38582.2	100.0
0°-180°	38582.2	100.0



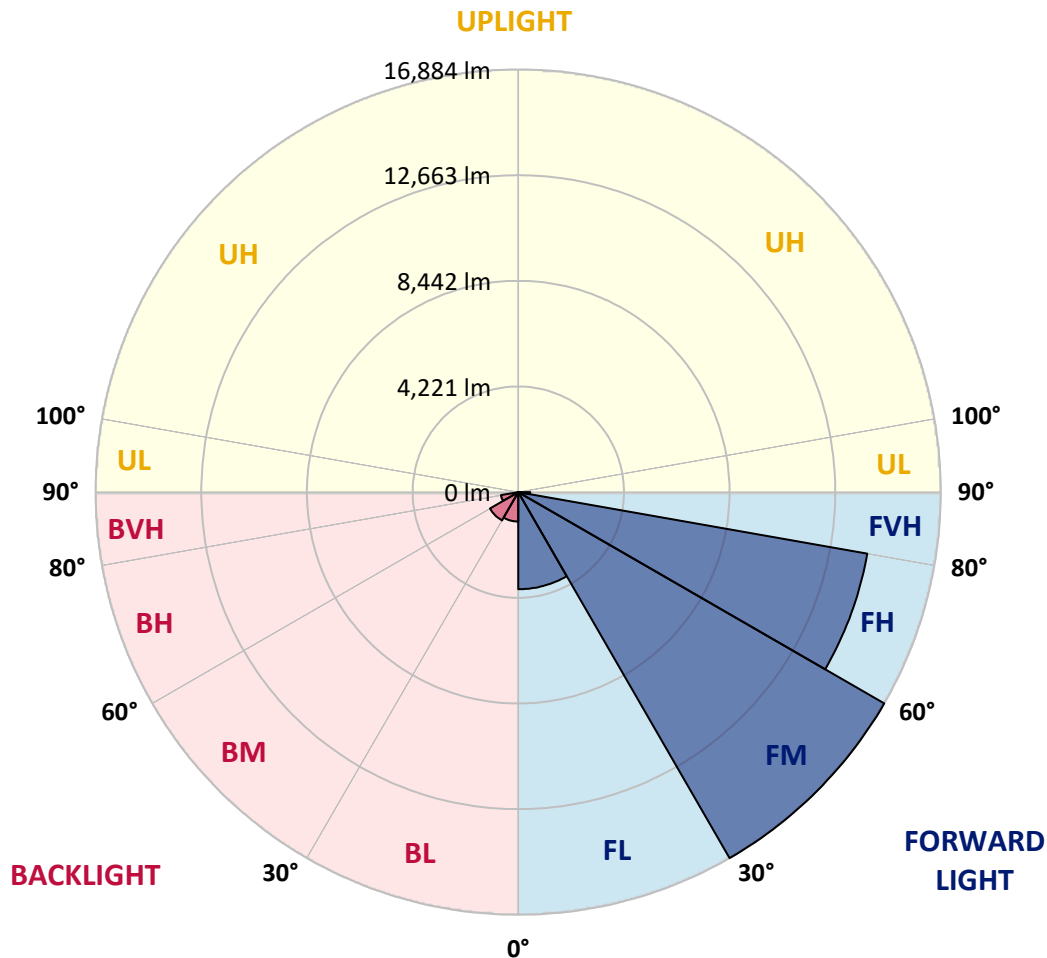
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3878.6	10.1			
FM (30°-60°)	16884.3	43.8			
FH (60°-80°)	14158.8	36.7			G5
FVH (80°-90°)	471.4	1.2			G3/500
BL (0°-30°)	1174.5	3.0	B3/2500		
BM (30°-60°)	1305.5	3.4	B2/2500		
BH (60°-80°)	701.2	1.8	B2/1000		G2/1000
BVH (80°-90°)	7.9	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°	10930.9	10930.9	10930.9	10930.9	10930.9	10930.9	10930.9	10930.9	10930.9	10930.9	10930.9
2.5°	11893.8	11934.8	11970.7	11904.1	11960.4	11878.5	11668.5	11622.4	11586.5	11274.0	11094.8
5°	11888.7	11842.6	11878.5	11909.2	11832.4	11893.8	11842.6	11847.7	11709.4	11427.7	10925.7
7.5°	11094.8	11074.3	11094.8	11243.3	11412.3	11545.5	11622.4	11699.2	11607.0	11187.0	10700.4
10°	10024.2	10126.7	10183.0	10449.4	10710.6	10956.5	11197.2	11340.6	11315.0	11146.0	10454.5
12.5°	9276.4	9245.6	9450.5	9624.7	9885.9	10382.8	10802.8	10936.0	11089.6	10854.0	10131.8
15°	8584.9	8502.9	8625.8	8928.1	9373.7	9768.1	10357.2	10556.9	10751.6	10813.0	9957.6
17.5°	7924.1	7965.1	8093.1	8364.6	8784.6	9337.8	9891.0	10177.9	10644.0	10562.1	9696.4
20°	7606.5	7693.6	7739.7	7878.0	8170.0	8723.2	9547.8	9778.3	10275.2	10556.9	9440.3
22.5°	7621.9	7621.9	7514.3	7596.3	7862.6	8292.9	9081.7	9337.8	10126.7	10290.6	9209.8
25°	7785.8	7683.4	7688.5	7591.2	7703.8	7939.5	8661.7	8974.2	9824.4	10316.2	9086.8
27.5°	7908.7	7888.2	7857.5	7831.9	7688.5	7724.3	8385.1	8641.2	9706.6	10285.5	8897.3
30°	8354.4	8262.2	8231.4	8175.1	7985.6	7811.4	8164.8	8487.5	9614.4	10357.2	8789.8
32.5°	8728.3	8743.7	8769.3	8605.4	8441.4	8011.2	8226.3	8482.4	9547.8	10521.1	8897.3
35°	9199.5	9266.1	9276.4	9225.1	9051.0	8625.8	8482.4	8702.7	9660.5	10813.0	8907.6
37.5°	9916.6	9844.9	10039.6	10060.1	9937.1	9373.7	9076.6	9163.7	9993.5	11279.2	9296.9
40°	10382.8	10469.9	10833.5	11058.9	10848.9	10336.7	9937.1	9921.8	10475.0	12011.6	9778.3
42.5°	10900.1	11094.8	11494.3	11980.9	11955.3	11478.9	11074.3	11007.7	11330.4	13071.9	10541.6
45°	11607.0	11781.1	12339.5	13071.9	13471.5	13066.8	12457.3	12324.1	12370.2	14516.4	11842.6
47.5°	12780.0	12733.9	13538.1	14260.3	14916.0	14603.5	14342.3	13953.0	13917.1	16217.0	13640.5
50°	14106.6	14096.4	14813.5	15633.1	16391.2	17000.7	16565.3	16140.2	16150.4	18527.1	15756.0
52.5°	15366.7	15566.5	16339.9	17154.4	18455.4	19111.1	19531.1	19362.1	18547.6	20591.4	18020.0
55°	16032.6	16206.8	16975.1	18378.6	20432.6	22117.8	23255.0	23111.5	21539.0	22916.9	20253.3
57.5°	15402.6	15520.4	16560.2	18399.1	21815.6	25575.3	26666.4	26487.1	24632.8	24694.3	22952.7
60°	12764.6	12949.0	14495.9	16652.4	21277.8	28238.9	31363.5	31092.0	27450.1	26943.0	24689.2
62.5°	8841.0	8963.9	10234.2	12918.3	18726.9	29166.0	35799.3	35947.9	30421.0	28694.8	25206.5
65°	5726.7	5716.4	6443.8	8262.2	13271.7	26359.0	38421.9	39343.9	33289.4	28961.1	25047.7
67°	4046.6	4031.2	4374.4	5603.7	9189.3	21718.3	38375.8	40358.1	34846.6	29038.0	23577.7
67.5°	3734.1	3718.7	4046.6	5153.0	8292.9	20197.0	37802.1	39835.6	35394.7	28930.4	22932.3
70°	2899.2	2858.2	2981.1	3549.7	4830.3	13061.7	32352.0	36593.3	34257.5	26246.3	18312.0
72.5°	2095.0	2141.1	2335.7	2914.6	3790.5	7027.7	24658.4	29591.2	28612.8	19782.1	11637.7
75°	1459.8	1500.8	1813.3	2376.7	3478.0	4261.7	16672.9	21462.2	19930.6	10920.6	4958.3
77.5°	763.2	814.4	1157.6	1900.3	3160.4	3298.7	9962.7	13609.8	10562.1	3887.8	1367.6
80°	353.4	379.0	578.8	1347.1	2643.1	2899.2	5808.6	7570.7	4225.8	870.8	471.2
82.5°	153.7	169.0	266.4	773.5	1874.7	2535.5	3595.8	3969.7	1531.5	281.7	292.0
85°	30.7	35.9	102.4	409.8	906.6	1536.7	2525.3	2356.2	768.3	138.3	230.5
87.5°	0.0	0.0	25.6	117.8	245.9	455.9	1070.5	1070.5	235.6	71.7	87.1
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°	10930.9	10930.9	10930.9	10930.9	10930.9	10930.9	10930.9	10930.9	10930.9	10930.9	10930.9
2.5°	10936.0	10751.6	10346.9	9973.0	9706.6	9404.4	9004.9	8825.6	8759.0	8666.8	8528.5
5°	10649.1	10423.8	9732.2	9035.6	8272.4	7693.6	7078.9	6720.4	6448.9	6279.9	6223.5
7.5°	10244.5	9783.5	8851.2	7734.6	6746.0	5885.4	4953.2	4323.2	3918.5	3754.6	3600.9
10°	9921.8	9322.5	7903.6	6515.5	5199.1	3939.0	2888.9	2335.7	1915.7	1756.9	1736.4
12.5°	9501.7	8784.6	7017.5	5270.8	3616.3	2346.0	1598.1	1388.1	1270.3	1249.8	1234.5
15°	9153.4	8298.0	6177.4	4082.4	2340.9	1465.0	1244.7	1193.5	1162.7	1152.5	1157.6
17.5°	8917.8	7775.6	5316.9	2970.9	1541.8	1198.6	1147.4	1116.6	1101.3	1096.2	1080.8
20°	8451.7	7335.0	4466.6	2079.6	1203.7	1106.4	1065.4	1039.8	1024.4	1019.3	1014.2
22.5°	8185.3	6776.7	3616.3	1449.6	1070.5	1004.0	973.2	952.7	927.1	911.8	906.6
25°	7919.0	6366.9	2858.2	1126.9	973.2	927.1	881.0	855.4	814.4	793.9	788.8
27.5°	7606.5	5962.3	2202.6	978.3	875.9	829.8	783.7	742.7	691.5	671.0	660.8
30°	7427.2	5567.9	1659.6	875.9	804.2	742.7	686.4	635.2	578.8	543.0	532.7
32.5°	7335.0	5209.3	1244.7	799.1	727.4	660.8	589.1	527.6	476.4	445.6	440.5
35°	7222.4	4861.0	978.3	727.4	655.6	583.9	512.2	450.8	399.5	373.9	363.7
37.5°	7340.2	4656.1	814.4	671.0	599.3	517.3	440.5	379.0	338.1	312.5	307.3
40°	7662.9	4487.1	706.9	619.8	543.0	455.9	384.2	322.7	286.8	266.4	256.1
42.5°	8159.7	4487.1	640.3	568.6	491.7	399.5	327.8	281.7	245.9	225.4	220.3
45°	9061.2	4625.4	583.9	517.3	430.3	343.2	281.7	235.6	199.8	179.3	174.2
47.5°	10326.4	4943.0	537.8	471.2	384.2	302.2	245.9	199.8	163.9	143.4	138.3
50°	12027.0	5665.2	491.7	414.9	343.2	261.2	204.9	158.8	128.1	107.6	102.4
52.5°	14147.6	6689.6	445.6	384.2	292.0	220.3	163.9	128.1	97.3	82.0	76.8
55°	16391.2	7944.6	389.3	343.2	251.0	184.4	133.2	97.3	71.7	61.5	56.3
57.5°	18650.1	8912.7	343.2	297.1	204.9	148.5	107.6	76.8	51.2	41.0	35.9
60°	19848.7	9004.9	297.1	245.9	163.9	117.8	82.0	56.3	35.9	25.6	20.5
62.5°	20033.1	8185.3	256.1	199.8	133.2	92.2	56.3	41.0	20.5	10.2	10.2
65°	19085.5	6822.8	220.3	158.8	102.4	66.6	41.0	25.6	10.2	5.1	0.0
67°	17548.8	5716.4	189.5	133.2	82.0	51.2	30.7	15.4	5.1	0.0	0.0
67.5°	16954.6	5409.1	179.3	122.9	76.8	46.1	25.6	15.4	5.1	0.0	0.0
70°	13159.0	3862.2	133.2	87.1	56.3	35.9	20.5	10.2	0.0	0.0	0.0
72.5°	8062.4	2258.9	102.4	61.5	41.0	25.6	15.4	5.1	0.0	0.0	0.0
75°	3380.7	778.6	87.1	46.1	30.7	15.4	10.2	5.1	0.0	0.0	0.0
77.5°	881.0	292.0	61.5	30.7	20.5	15.4	10.2	5.1	0.0	0.0	0.0
80°	358.6	133.2	41.0	20.5	20.5	15.4	10.2	5.1	0.0	0.0	0.0
82.5°	235.6	61.5	25.6	20.5	15.4	10.2	5.1	0.0	0.0	0.0	0.0
85°	179.3	35.9	15.4	15.4	10.2	5.1	0.0	0.0	0.0	0.0	0.0
87.5°	76.8	20.5	15.4	10.2	10.2	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)