

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: P484632

Luminaire Tested: **IFLD-S-SA3C-722-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484632  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-722-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (48) 2200K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

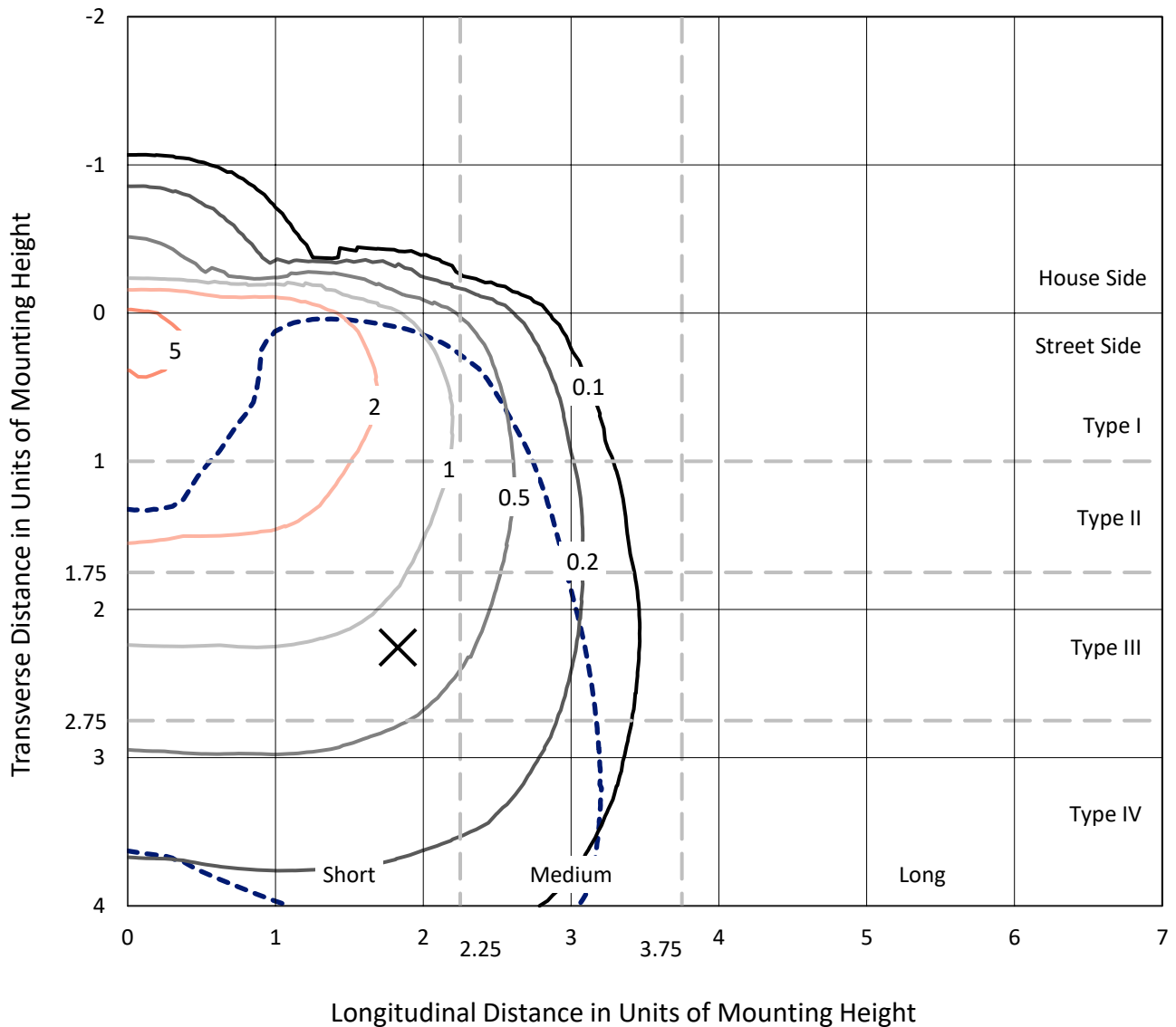
Lumens per Lamp: N/A  
Luminaire Lumens: 12889.6 lumens  
Efficiency: N/A  
Efficacy: 80.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

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

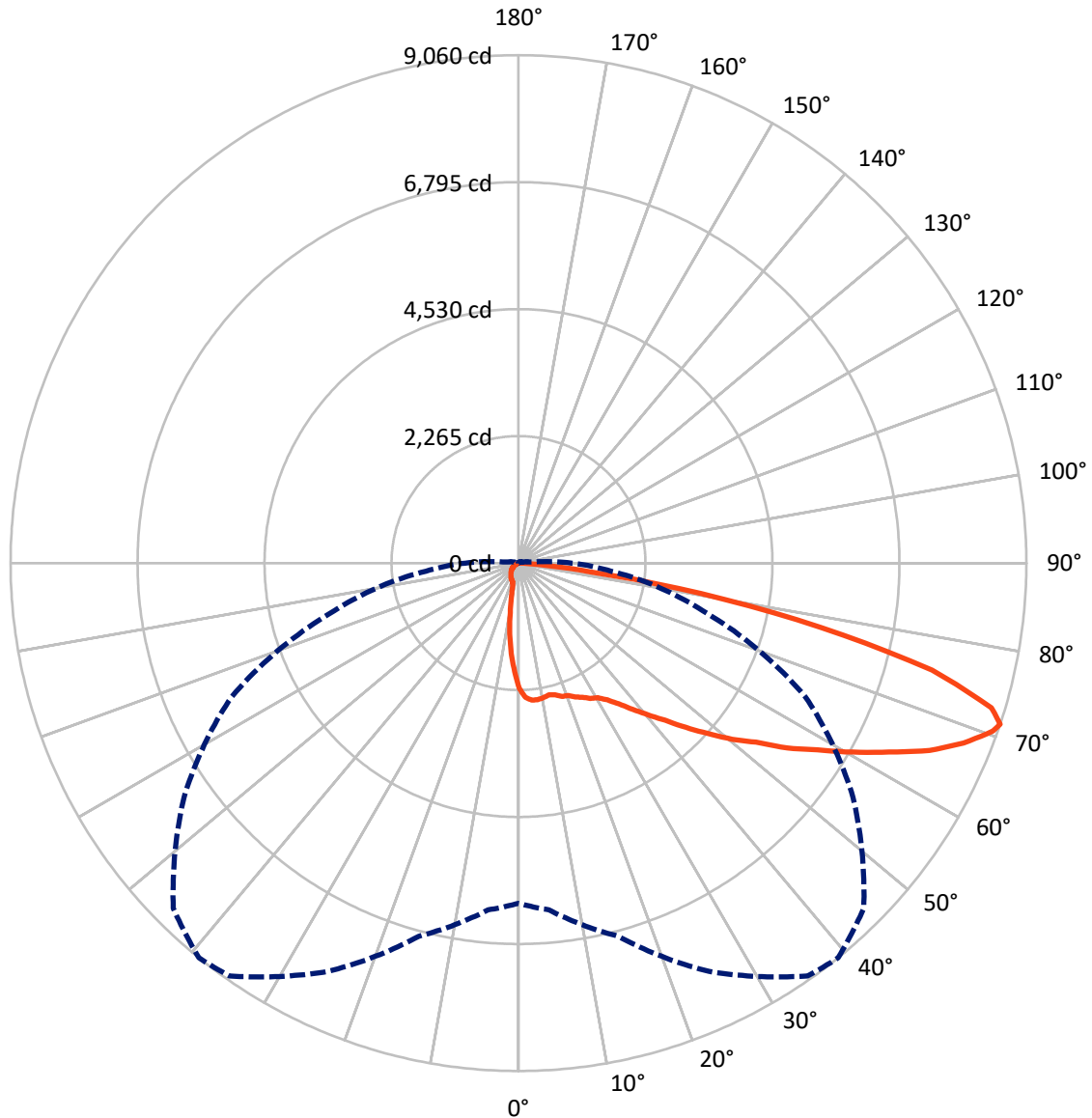
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	970.4	0.0	970.4
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	11919.2	0.0	11919.2
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	12889.6	0.0	12889.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.6	1.5
10°-20°	461.7	3.6
20°-30°	741.2	5.7
30°-40°	1134.5	8.8
40°-50°	1821.1	14.1
50°-60°	2674.9	20.8
60°-70°	3369.0	26.1
70°-80°	2248.4	17.4
80°-90°	251.3	1.9
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°	12889.6	100.0
0°-180°	12889.6	100.0



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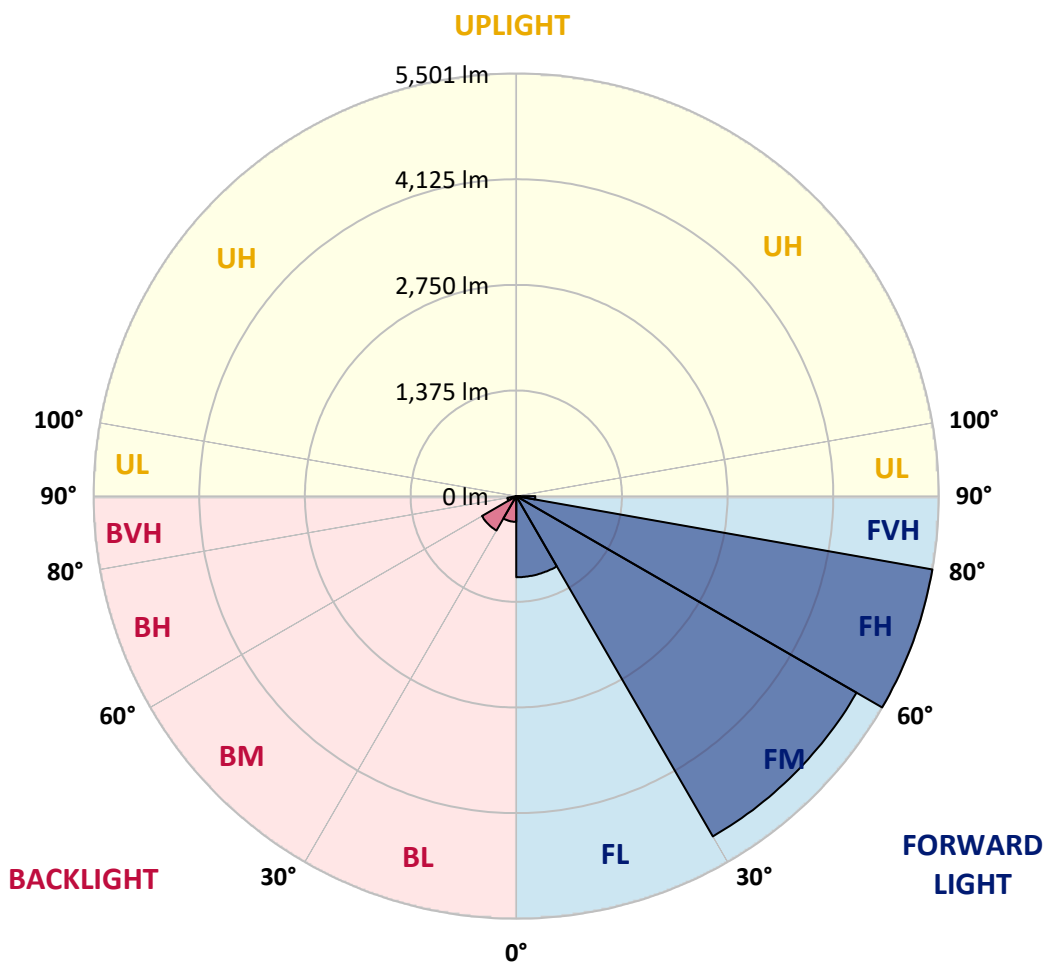
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1055.4	8.2			
FM (30°-60°)	5114.8	39.7			
FH (60°-80°)	5500.6	42.7			G3/7500
FVH (80°-90°)	248.5	1.9			G3/500
BL (0°-30°)	335.0	2.6	B1/500		
BM (30°-60°)	515.8	4.0	B1/1000		
BH (60°-80°)	116.8	0.9	B1/500		G1/500
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2243.5	2243.5	2243.5	2243.5	2243.5	2243.5	2243.5	2243.5	2243.5	2243.5	2243.5
2.5°	2417.7	2441.3	2417.7	2407.5	2397.4	2399.1	2372.0	2377.1	2345.0	2302.7	2268.9
5°	2493.7	2525.9	2500.5	2488.7	2487.0	2454.9	2441.3	2409.2	2370.3	2304.4	2263.8
7.5°	2487.0	2480.2	2492.0	2481.9	2459.9	2459.9	2444.7	2399.1	2360.2	2285.8	2216.5
10°	2436.3	2456.5	2446.4	2434.6	2439.6	2441.3	2412.6	2380.5	2368.6	2294.2	2181.0
12.5°	2431.2	2397.4	2434.6	2436.3	2414.3	2412.6	2409.2	2400.8	2363.6	2295.9	2189.4
15°	2414.3	2400.8	2437.9	2439.6	2444.7	2439.6	2444.7	2437.9	2400.8	2361.9	2226.6
17.5°	2427.8	2412.6	2465.0	2490.4	2478.5	2502.2	2493.7	2463.3	2431.2	2385.5	2262.1
20°	2431.2	2453.2	2510.6	2520.8	2558.0	2519.1	2517.4	2485.3	2465.0	2416.0	2284.1
22.5°	2493.7	2503.9	2574.9	2596.9	2598.6	2593.5	2551.2	2514.0	2505.6	2444.7	2289.2
25°	2588.4	2623.9	2656.0	2669.6	2674.6	2651.0	2607.0	2559.7	2539.4	2500.5	2341.6
27.5°	2755.8	2733.8	2762.6	2782.8	2725.4	2733.8	2678.0	2637.4	2608.7	2574.9	2402.4
30°	2904.6	2884.3	2886.0	2882.6	2833.6	2787.9	2772.7	2701.7	2666.2	2679.7	2497.1
32.5°	3038.1	2994.2	3031.4	3014.5	2923.2	2909.6	2897.8	2808.2	2815.0	2877.5	2639.1
35°	3161.6	3146.3	3176.8	3146.3	3085.5	3082.1	3070.3	2992.5	3029.7	3119.3	2882.6
37.5°	3274.8	3279.9	3317.1	3301.9	3307.0	3310.3	3303.6	3220.7	3327.2	3528.4	3166.6
40°	3379.7	3372.9	3464.2	3511.5	3521.7	3558.9	3558.9	3538.6	3702.6	3929.1	3560.6
42.5°	3491.2	3508.1	3626.5	3706.0	3802.3	3834.4	3878.4	3888.5	4142.1	4400.8	3962.9
45°	3673.8	3645.1	3795.6	3983.2	4067.8	4181.0	4248.7	4306.1	4612.2	4967.2	4365.3
47.5°	3905.4	3848.0	3979.8	4252.0	4448.2	4541.1	4662.9	4739.0	5038.2	5405.1	4745.7
50°	4162.4	4103.3	4167.5	4542.8	4771.1	4940.1	5095.7	5192.1	5553.9	5895.4	5023.0
52.5°	4453.2	4399.1	4409.3	4845.5	5181.9	5305.3	5509.9	5653.6	6013.7	6191.2	5121.0
55°	4762.6	4749.1	4717.0	5141.3	5542.0	5819.3	5942.7	6115.2	6485.4	6351.9	5227.6
57.5°	5073.7	5031.4	5077.1	5533.6	6120.2	6285.9	6456.7	6559.8	6747.5	6492.2	5187.0
60°	5366.2	5369.6	5433.8	5959.6	6612.2	6847.2	7001.1	6938.5	7016.3	6553.0	5094.0
62.5°	5613.0	5606.3	5768.6	6438.1	7263.1	7422.0	7537.0	7258.1	7141.4	6612.2	4931.7
65°	5834.5	5910.6	6165.9	7007.8	7875.1	8057.7	7988.4	7560.7	7263.1	6438.1	4475.2
67.5°	6001.9	6115.2	6558.1	7543.8	8436.4	8564.9	8468.6	7790.6	7119.4	5755.0	3645.1
70°	6099.9	6214.9	6838.8	7990.1	8884.5	8977.5	8750.9	7613.1	6280.8	4167.5	2274.0
71°	6069.5	6209.8	6892.9	8037.4	8991.0	9060.3	8708.6	7285.1	5648.5	3489.5	1658.5
72.5°	5793.9	5925.8	6668.0	8003.6	8862.5	8820.2	8379.0	6497.2	4446.5	2224.9	857.2
75°	4257.1	4399.1	5722.9	6923.3	7910.6	7619.9	6781.3	4559.7	2319.6	681.3	250.2
77.5°	2120.1	2143.8	3552.1	5026.4	5802.4	5513.3	4544.5	2542.8	867.3	201.2	125.1
80°	977.2	984.0	1332.2	2603.6	3508.1	3301.9	2546.2	1254.5	392.2	106.5	98.1
82.5°	666.1	676.3	803.1	1078.6	1523.3	1284.9	1031.3	803.1	224.9	64.2	96.4
85°	121.7	111.6	449.7	571.4	588.4	399.0	356.7	694.9	84.5	37.2	84.5
87.5°	0.0	1.7	62.6	233.3	209.6	93.0	121.7	169.1	8.5	11.8	15.2
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°	2243.5	2243.5	2243.5	2243.5	2243.5	2243.5	2243.5	2243.5	2243.5	2243.5	2243.5
2.5°	2240.1	2221.5	2159.0	2089.7	2027.1	1978.1	1915.5	1886.8	1841.1	1815.8	1814.1
5°	2208.0	2157.3	2049.1	1932.4	1802.3	1694.1	1574.0	1506.4	1428.6	1404.9	1399.9
7.5°	2153.9	2081.2	1922.3	1758.3	1558.8	1367.8	1220.7	1063.4	967.1	926.5	911.3
10°	2120.1	2032.2	1815.8	1570.6	1291.7	1022.9	816.6	649.2	561.3	519.0	508.9
12.5°	2120.1	2025.4	1729.6	1391.4	1021.2	699.9	505.5	409.1	380.4	370.3	370.3
15°	2115.0	2011.9	1646.7	1207.1	755.7	470.0	377.0	356.7	353.4	351.7	350.0
17.5°	2140.4	1988.2	1562.2	1009.3	534.3	370.3	346.6	343.2	339.8	339.8	336.4
20°	2159.0	1974.7	1460.7	799.7	399.0	343.2	333.1	328.0	326.3	324.6	328.0
22.5°	2143.8	1954.4	1335.6	598.5	348.3	326.3	319.5	314.5	311.1	311.1	312.8
25°	2172.5	1935.8	1210.5	451.4	326.3	311.1	304.3	300.9	299.2	297.6	294.2
27.5°	2211.4	1944.3	1061.7	363.5	307.7	295.9	289.1	285.7	284.0	280.7	284.0
30°	2258.7	1942.6	897.7	317.8	290.8	279.0	272.2	270.5	267.1	265.4	267.1
32.5°	2339.9	1986.5	728.7	294.2	272.2	262.1	255.3	253.6	251.9	250.2	248.5
35°	2514.0	2040.6	569.8	275.6	255.3	243.5	238.4	235.0	233.3	231.6	229.9
37.5°	2728.7	2160.7	434.5	258.7	238.4	226.5	221.5	219.8	213.0	211.3	209.6
40°	2997.6	2289.2	334.8	240.1	223.2	211.3	206.3	201.2	192.7	189.4	186.0
42.5°	3332.3	2414.3	275.6	223.2	206.3	197.8	189.4	180.9	174.1	167.4	164.0
45°	3667.1	2559.7	241.8	208.0	192.7	182.6	175.8	164.0	152.2	142.0	140.3
47.5°	3946.0	2612.1	221.5	191.0	179.2	170.8	160.6	145.4	128.5	118.3	116.7
50°	4154.0	2581.7	201.2	174.1	164.0	155.5	142.0	123.4	106.5	96.4	93.0
52.5°	4194.6	2448.1	182.6	160.6	148.8	138.6	123.4	103.1	84.5	74.4	72.7
55°	4165.8	2226.6	167.4	148.8	135.3	120.0	103.1	82.8	65.9	55.8	54.1
57.5°	4106.6	1964.6	150.5	133.6	118.3	103.1	84.5	67.6	49.0	38.9	38.9
60°	3905.4	1607.8	133.6	116.7	101.4	87.9	69.3	49.0	33.8	25.4	23.7
62.5°	3624.8	1235.9	116.7	99.7	87.9	72.7	54.1	35.5	20.3	13.5	13.5
65°	3112.5	865.6	98.1	82.8	72.7	59.2	40.6	22.0	11.8	5.1	5.1
67.5°	2365.2	535.9	81.2	69.3	62.6	47.3	28.7	13.5	5.1	1.7	0.0
70°	1357.6	279.0	64.2	55.8	49.0	35.5	20.3	6.8	3.4	0.0	0.0
71°	948.5	206.3	57.5	49.0	44.0	32.1	16.9	5.1	1.7	0.0	0.0
72.5°	475.1	136.9	49.0	40.6	35.5	25.4	13.5	5.1	1.7	0.0	0.0
75°	169.1	87.9	33.8	27.1	25.4	18.6	8.5	3.4	1.7	0.0	0.0
77.5°	116.7	71.0	23.7	16.9	16.9	11.8	5.1	1.7	1.7	0.0	0.0
80°	106.5	38.9	15.2	10.1	8.5	6.8	3.4	1.7	0.0	0.0	0.0
82.5°	106.5	28.7	8.5	6.8	5.1	3.4	1.7	0.0	0.0	0.0	0.0
85°	74.4	15.2	5.1	5.1	3.4	1.7	0.0	0.0	0.0	0.0	0.0
87.5°	11.8	5.1	3.4	1.7	1.7	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)