

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: P480847

Luminaire Tested: **IFLD-S-SA3A-735-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480847
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-735-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

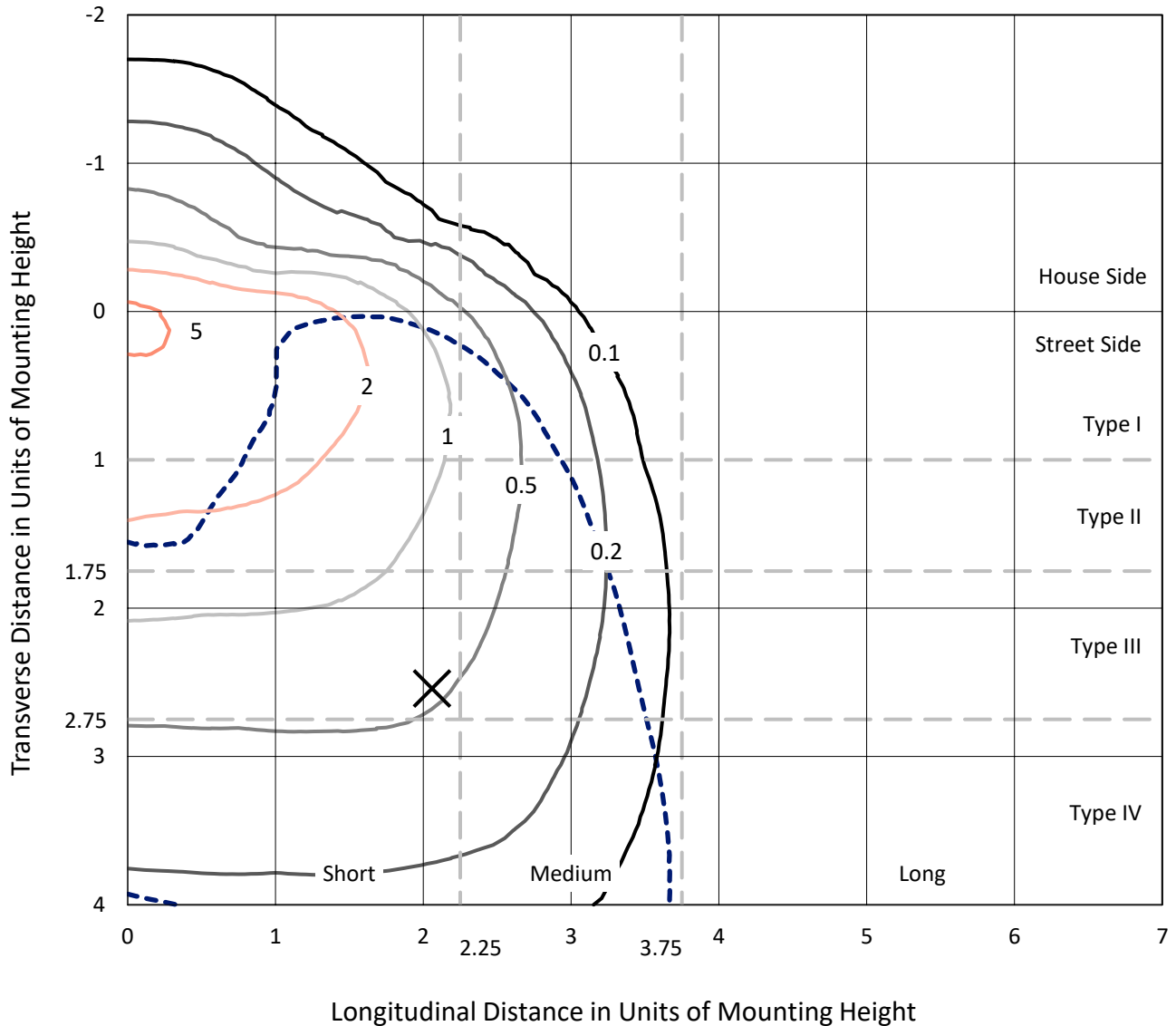
Lumens per Lamp: N/A
Luminaire Lumens: 13126 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 94.8
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

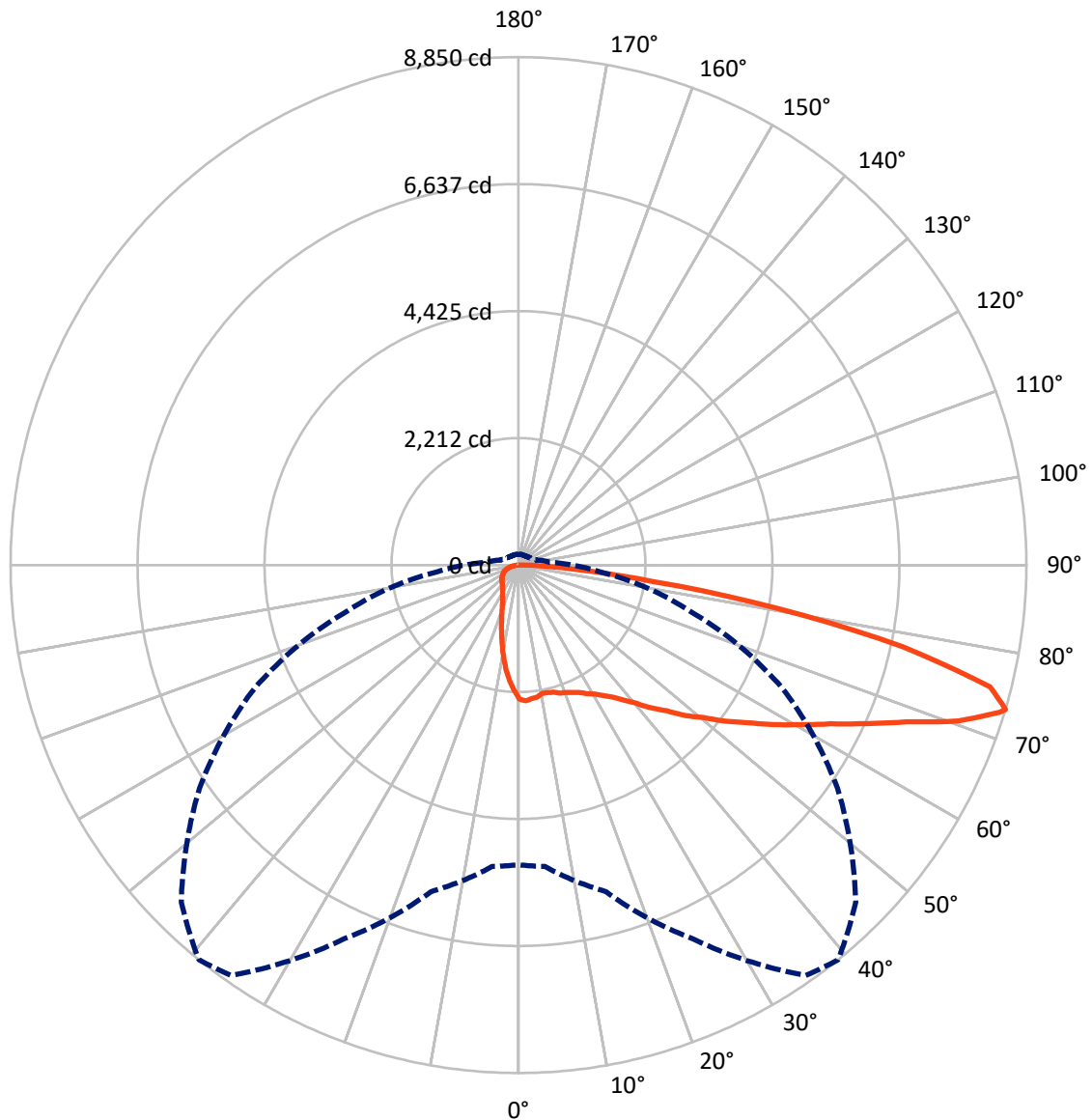
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1845.2	0.0	1845.2
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	11280.9	0.0	11280.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	13126.0	0.0	13126.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.8	1.5
10°-20°	515.6	3.9
20°-30°	787.9	6.0
30°-40°	1148.8	8.8
40°-50°	1736.0	13.2
50°-60°	2513.8	19.2
60°-70°	3193.9	24.3
70°-80°	2589.1	19.7
80°-90°	438.1	3.3
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°	13126.0	100.0
0°-180°	13126.0	100.0

Coefficient of Utilization



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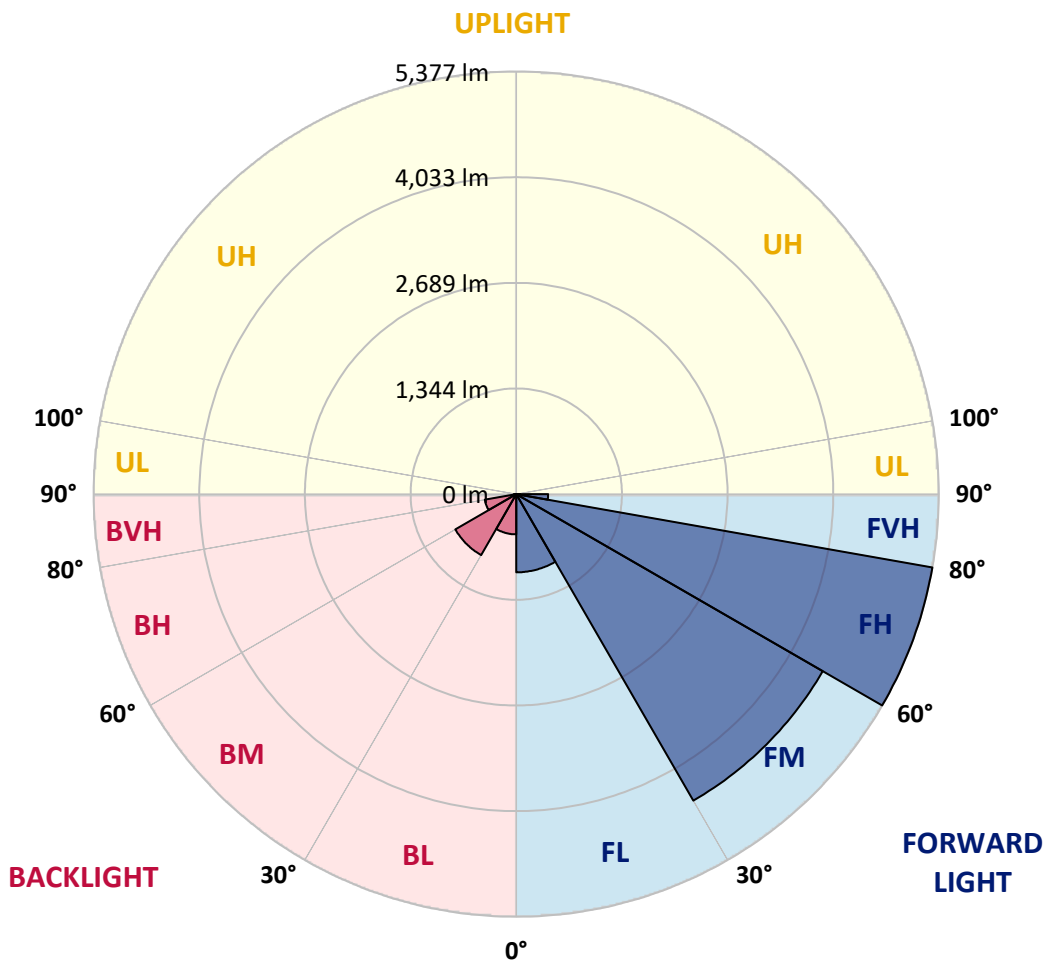
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	994.7	7.6			
FM (30°-60°)	4503.1	34.3			
FH (60°-80°)	5377.2	41.0			G3/7500
FVH (80°-90°)	405.9	3.1			G3/500
BL (0°-30°)	511.7	3.9	B2/1000		
BM (30°-60°)	895.5	6.8	B1/1000		
BH (60°-80°)	405.8	3.1	B1/500		G1/500
BVH (80°-90°)	32.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2336.5	2336.5	2336.5	2336.5	2336.5	2336.5	2336.5	2336.5	2336.5	2336.5	2336.5
2.5°	2392.3	2367.4	2371.8	2362.9	2371.8	2368.8	2364.4	2342.4	2364.4	2342.4	2336.5
5°	2360.0	2360.0	2374.7	2352.7	2355.6	2340.9	2355.6	2339.4	2324.8	2288.0	2277.8
7.5°	2349.7	2348.3	2349.7	2318.9	2333.6	2324.8	2310.1	2292.5	2263.1	2239.6	2205.8
10°	2279.2	2293.9	2277.8	2286.6	2298.3	2271.9	2270.4	2266.0	2252.8	2222.0	2201.4
12.5°	2241.1	2266.0	2274.8	2267.5	2277.8	2280.7	2271.9	2266.0	2249.9	2229.3	2170.6
15°	2257.2	2227.8	2252.8	2301.3	2291.0	2298.3	2299.8	2293.9	2286.6	2248.4	2210.2
17.5°	2261.6	2244.0	2296.9	2307.1	2320.4	2346.8	2329.2	2327.7	2299.8	2273.4	2217.6
20°	2271.9	2264.6	2307.1	2361.5	2362.9	2367.4	2376.2	2354.1	2339.4	2293.9	2208.7
22.5°	2310.1	2335.0	2374.7	2398.2	2411.4	2414.3	2414.3	2370.3	2354.1	2317.4	2249.9
25°	2424.6	2398.2	2454.0	2481.9	2462.8	2458.4	2448.1	2408.5	2390.8	2358.5	2269.0
27.5°	2508.3	2506.9	2539.2	2577.4	2526.0	2536.2	2499.5	2487.8	2448.1	2430.5	2302.7
30°	2622.9	2655.2	2653.7	2665.5	2597.9	2609.7	2562.7	2540.6	2518.6	2528.9	2402.6
32.5°	2769.7	2758.0	2777.1	2768.3	2700.7	2711.0	2655.2	2621.4	2628.8	2659.6	2539.2
35°	2863.7	2852.0	2859.3	2859.3	2838.8	2827.0	2803.5	2759.5	2794.7	2852.0	2691.9
37.5°	2965.1	2979.7	3022.3	3013.5	2987.1	2987.1	2984.2	2953.3	2998.8	3139.8	2935.7
40°	3054.6	3094.3	3120.7	3138.4	3169.2	3169.2	3194.2	3176.5	3258.8	3484.9	3233.8
42.5°	3148.6	3150.1	3294.0	3307.2	3376.3	3405.6	3424.7	3439.4	3593.6	3846.2	3552.5
45°	3269.1	3276.4	3402.7	3504.0	3611.2	3621.5	3693.5	3741.9	3931.4	4241.3	3899.1
47.5°	3427.7	3418.9	3554.0	3715.5	3849.1	3919.6	4006.3	4059.2	4292.7	4670.1	4278.0
50°	3636.2	3609.8	3687.6	3941.7	4098.8	4176.6	4330.8	4419.0	4692.1	5079.8	4537.9
52.5°	3890.3	3846.2	3907.9	4185.5	4361.7	4518.8	4665.7	4764.1	5049.0	5397.0	4730.3
55°	4159.0	4068.0	4085.6	4443.9	4698.0	4846.3	5047.5	5150.3	5441.1	5681.9	4922.7
57.5°	4424.8	4367.6	4332.3	4692.1	5098.9	5241.4	5426.4	5560.0	5806.8	5934.5	5085.7
60°	4648.1	4633.4	4576.1	5076.9	5523.3	5645.2	5839.1	5921.3	6107.8	6168.0	5088.6
62.5°	4831.6	4781.7	4872.8	5386.8	5955.1	6093.1	6306.1	6313.4	6445.6	6313.4	4938.8
65°	4975.6	4978.5	5123.9	5761.2	6454.4	6658.5	6830.4	6811.3	6726.1	6226.8	4584.9
67.5°	5106.3	5162.1	5375.0	6172.4	7096.2	7288.6	7479.5	7226.9	6802.5	5821.5	3893.2
70°	5209.1	5264.9	5714.2	6673.2	7852.5	8134.5	8177.1	7391.4	6451.5	4931.5	2937.2
72.5°	5197.3	5298.6	5906.6	7072.7	8523.6	8767.4	8423.8	6928.8	5375.0	3437.9	1713.8
73°	5222.3	5272.2	5890.5	7184.3	8727.8	8849.7	8309.2	6783.4	5069.5	3084.0	1449.5
75°	4740.6	4909.5	5598.2	7002.2	8509.0	8486.9	7651.3	5652.6	3603.9	1619.8	702.0
77.5°	3507.0	3614.2	4411.6	5758.3	6984.6	6843.6	5771.5	3612.7	1710.9	600.6	378.9
80°	1713.8	1797.5	2338.0	3324.9	4567.3	4579.0	3581.9	1879.8	732.8	339.2	258.5
82.5°	856.2	906.1	1123.5	1461.2	2246.9	2354.1	1816.6	1069.1	453.8	192.4	146.9
85°	559.5	594.8	691.7	715.2	953.1	1006.0	845.9	834.2	295.2	104.3	119.0
87.5°	371.6	377.4	424.4	361.3	381.8	367.1	408.3	525.8	86.6	44.1	32.3
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°	2336.5	2336.5	2336.5	2336.5	2336.5	2336.5	2336.5	2336.5	2336.5	2336.5	2336.5
2.5°	2329.2	2308.6	2286.6	2255.7	2233.7	2199.9	2169.1	2155.9	2152.9	2154.4	2139.7
5°	2269.0	2239.6	2195.5	2132.4	2095.7	2039.9	1992.9	1967.9	1941.5	1945.9	1934.1
7.5°	2185.2	2152.9	2085.4	2012.0	1920.9	1841.6	1797.5	1735.9	1700.6	1674.2	1688.9
10°	2158.8	2103.0	2001.7	1900.3	1759.4	1655.1	1553.8	1483.3	1434.8	1387.8	1408.4
12.5°	2145.6	2089.8	1948.8	1799.0	1616.9	1458.3	1315.8	1229.2	1160.2	1119.1	1135.2
15°	2133.8	2064.8	1898.9	1687.4	1483.3	1274.7	1114.7	1000.1	934.0	894.4	898.8
17.5°	2150.0	2051.6	1825.4	1578.7	1336.4	1113.2	935.5	816.5	749.0	724.0	718.1
20°	2133.8	2036.9	1753.5	1470.0	1189.6	959.0	788.6	690.2	643.2	622.7	618.3
22.5°	2139.7	2001.7	1678.6	1349.6	1053.0	829.7	690.2	615.3	578.6	568.3	571.3
25°	2167.6	1981.1	1603.7	1217.5	917.9	734.3	627.1	569.8	543.4	533.1	536.0
27.5°	2188.2	1998.7	1536.1	1092.6	803.3	649.1	574.2	536.0	518.4	511.1	509.6
30°	2239.6	2009.0	1470.0	981.0	709.3	593.3	537.5	506.7	494.9	490.5	489.0
32.5°	2316.0	2028.1	1393.7	878.2	640.3	540.4	508.1	481.7	478.8	474.4	475.8
35°	2440.8	2094.2	1308.5	790.1	574.2	505.2	477.3	459.7	459.7	459.7	464.1
37.5°	2619.9	2186.7	1232.1	706.4	531.6	474.4	450.9	445.0	442.0	446.4	449.4
40°	2850.5	2298.3	1170.5	640.3	494.9	453.8	433.2	430.3	428.8	427.4	430.3
42.5°	3103.1	2440.8	1117.6	588.9	468.5	431.8	417.1	414.1	408.3	411.2	415.6
45°	3354.2	2617.0	1070.6	547.8	450.9	420.0	399.5	398.0	395.0	393.6	400.9
47.5°	3633.3	2790.3	1055.9	522.8	437.6	402.4	387.7	386.2	377.4	376.0	381.8
50°	3850.6	2918.1	1072.1	511.1	418.5	389.2	378.9	371.6	364.2	356.9	356.9
52.5°	4000.4	3006.2	1083.8	502.3	408.3	371.6	358.3	355.4	348.1	340.7	337.8
55°	4135.5	3059.1	1086.7	503.7	398.0	351.0	342.2	340.7	336.3	324.6	321.6
57.5°	4181.0	3037.0	1028.0	490.5	392.1	337.8	326.0	329.0	323.1	312.8	311.3
60°	4176.6	2884.3	894.4	472.9	378.9	323.1	308.4	317.2	317.2	305.5	304.0
62.5°	3922.6	2531.8	731.4	439.1	364.2	308.4	292.2	305.5	309.9	302.5	301.1
65°	3395.4	2061.9	610.9	405.3	342.2	292.2	276.1	290.8	298.1	295.2	293.7
67.5°	2809.4	1577.3	508.1	361.3	314.3	270.2	257.0	267.3	271.7	273.2	274.6
70°	1985.5	1050.0	424.4	312.8	276.1	246.7	232.0	233.5	232.0	236.4	236.4
72.5°	1079.4	605.1	345.1	265.8	237.9	214.4	204.1	196.8	196.8	195.3	195.3
73°	923.7	543.4	329.0	258.5	227.6	208.5	196.8	190.9	190.9	189.4	188.0
75°	518.4	398.0	282.0	221.8	196.8	182.1	173.3	164.5	163.0	163.0	163.0
77.5°	340.7	309.9	224.7	177.7	158.6	145.4	142.5	133.6	133.6	133.6	132.2
80°	255.5	243.8	173.3	135.1	121.9	111.6	108.7	102.8	101.3	95.5	96.9
82.5°	170.4	192.4	126.3	95.5	82.2	76.4	76.4	74.9	70.5	63.1	63.1
85°	135.1	157.1	91.1	58.7	48.5	41.1	42.6	41.1	39.7	32.3	30.8
87.5°	25.0	63.1	26.4	16.2	11.7	7.3	7.3	4.4	2.9	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)