

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: P481041

Luminaire Tested: **IFLD-S-SA2E-830-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481041
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-830-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

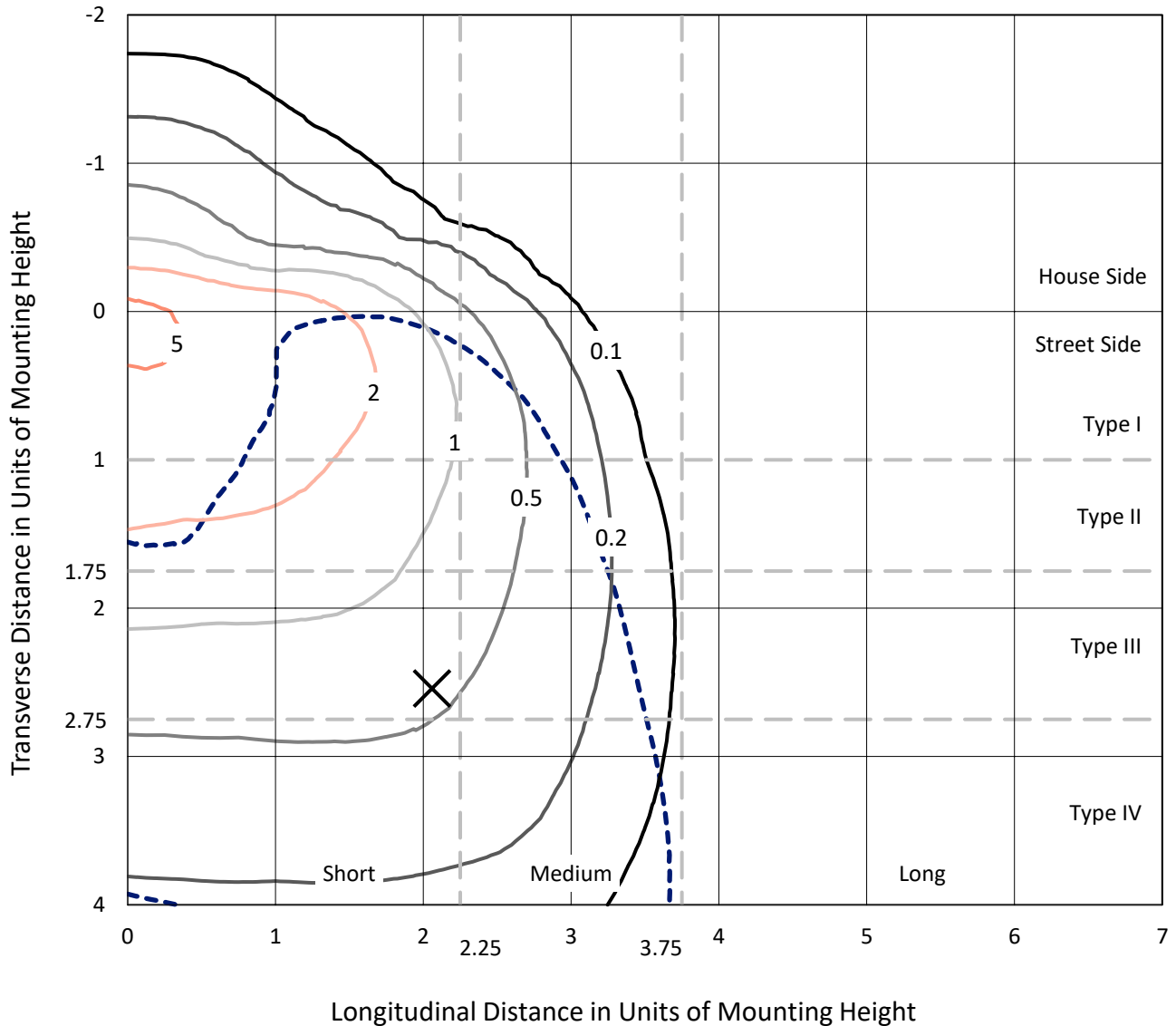
Lumens per Lamp: N/A
Luminaire Lumens: 13911.2 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 156.2
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

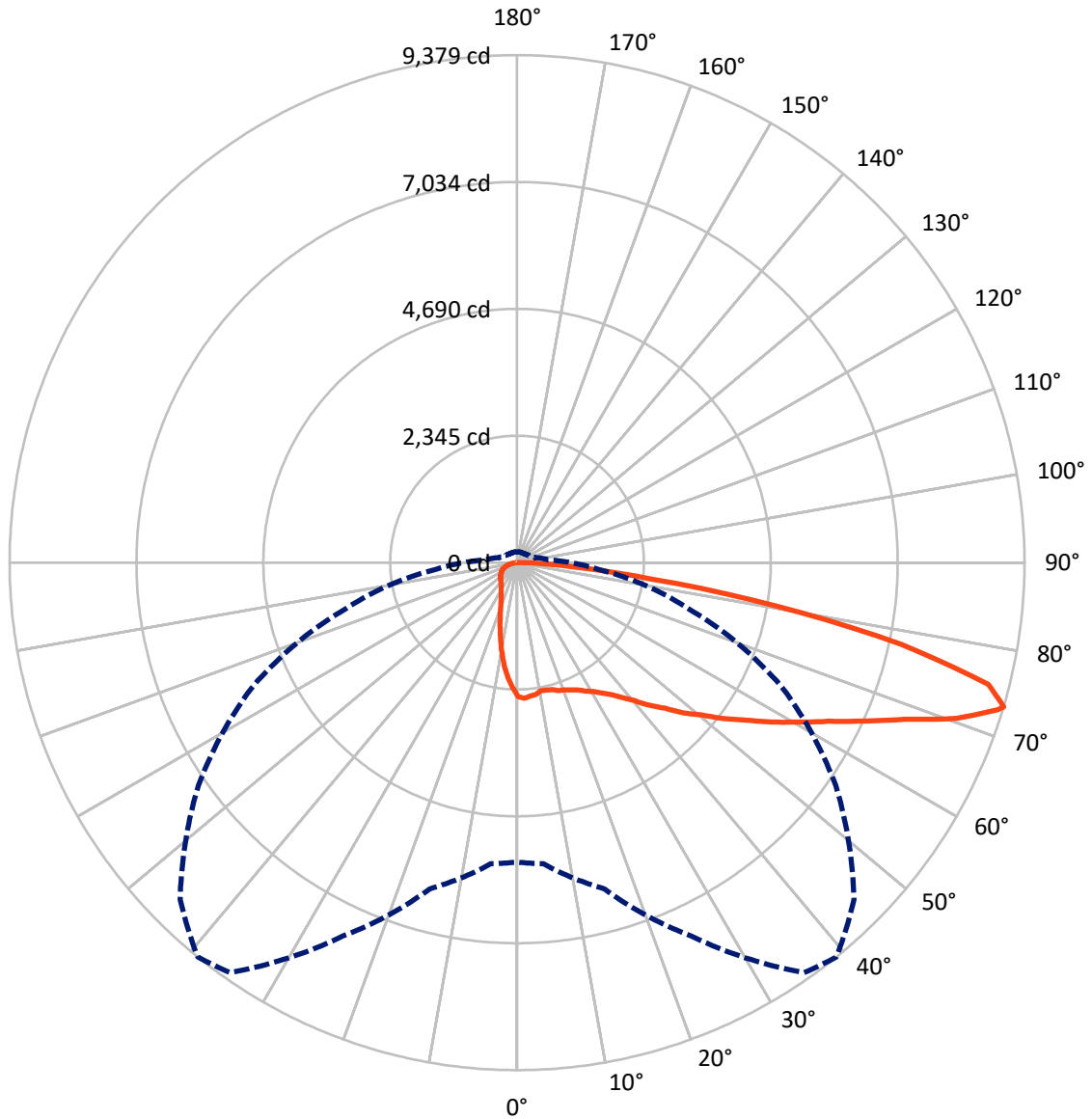
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 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	1955.5	0.0	1955.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	11955.7	0.0	11955.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	13911.2	0.0	13911.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.0	1.5
10°-20°	546.5	3.9
20°-30°	835.1	6.0
30°-40°	1217.5	8.8
40°-50°	1839.8	13.2
50°-60°	2664.2	19.2
60°-70°	3384.9	24.3
70°-80°	2744.0	19.7
80°-90°	464.3	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°	13911.2	100.0
0°-180°	13911.2	100.0

Coefficient of Utilization

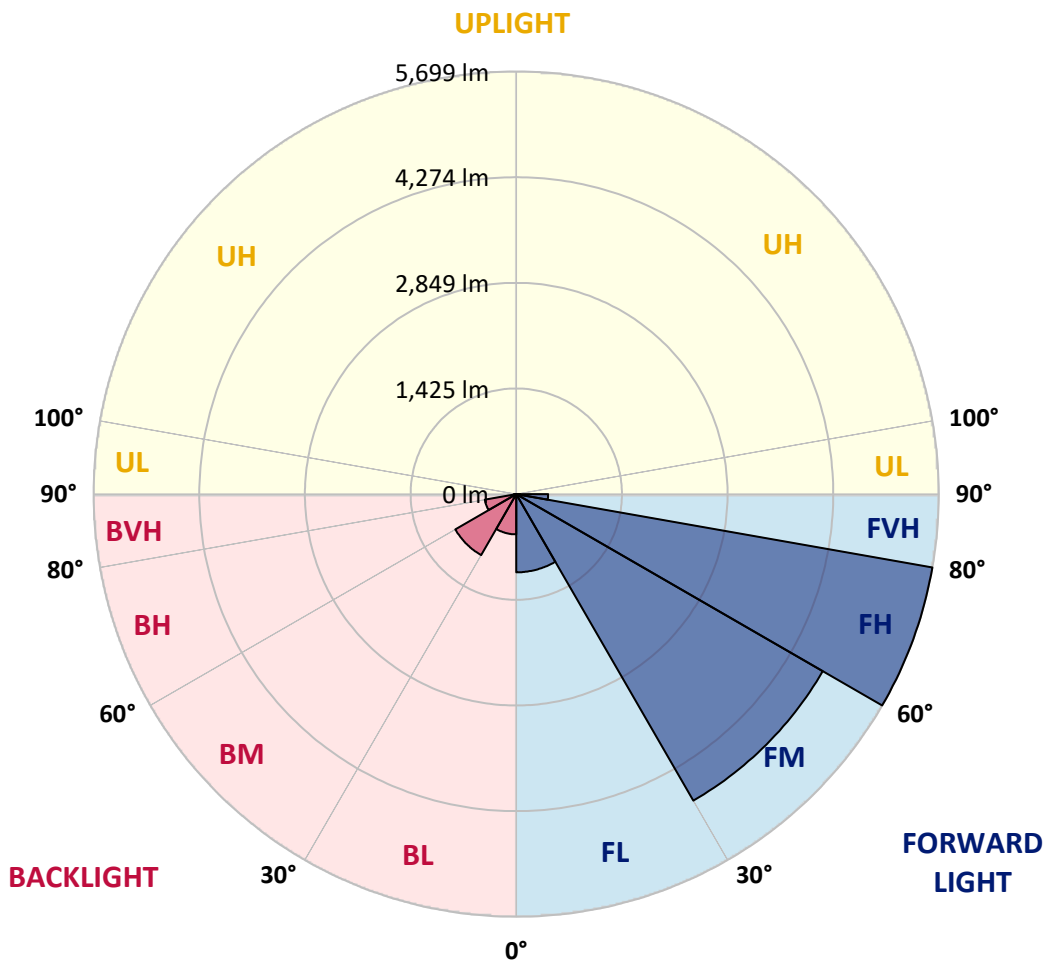


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1054.2	7.6			
FM (30°-60°)	4772.4	34.3			
FH (60°-80°)	5698.9	41.0			G3/7500
FVH (80°-90°)	430.2	3.1			G3/500
BL (0°-30°)	542.3	3.9	B2/1000		
BM (30°-60°)	949.1	6.8	B1/1000		
BH (60°-80°)	430.1	3.1	B1/500		G1/500
BVH (80°-90°)	34.1	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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 CATALOG NUMBER: IFLD-S-SA2E-830-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2476.3	2476.3	2476.3	2476.3	2476.3	2476.3	2476.3	2476.3	2476.3	2476.3	2476.3
2.5°	2535.4	2509.0	2513.6	2504.3	2513.6	2510.5	2505.8	2482.5	2505.8	2482.5	2476.3
5°	2501.2	2501.2	2516.7	2493.4	2496.5	2480.9	2496.5	2479.4	2463.8	2424.9	2414.0
7.5°	2490.3	2488.7	2490.3	2457.6	2473.2	2463.8	2448.3	2429.6	2398.5	2373.6	2337.8
10°	2415.6	2431.1	2414.0	2423.4	2435.8	2407.8	2406.2	2401.6	2387.6	2354.9	2333.1
12.5°	2375.1	2401.6	2410.9	2403.1	2414.0	2417.1	2407.8	2401.6	2384.4	2362.7	2300.4
15°	2392.2	2361.1	2387.6	2438.9	2428.0	2435.8	2437.4	2431.1	2423.4	2382.9	2342.4
17.5°	2396.9	2378.2	2434.3	2445.1	2459.2	2487.2	2468.5	2466.9	2437.4	2409.3	2350.2
20°	2407.8	2400.0	2445.1	2502.7	2504.3	2509.0	2518.3	2495.0	2479.4	2431.1	2340.9
22.5°	2448.3	2474.7	2516.7	2541.6	2555.7	2558.8	2558.8	2512.1	2495.0	2456.0	2384.4
25°	2569.7	2541.6	2600.8	2630.4	2610.1	2605.5	2594.6	2552.5	2533.9	2499.6	2404.7
27.5°	2658.4	2656.8	2691.1	2731.5	2677.1	2687.9	2649.0	2636.6	2594.6	2575.9	2440.5
30°	2779.8	2814.0	2812.5	2824.9	2753.3	2765.8	2716.0	2692.6	2669.3	2680.2	2546.3
32.5°	2935.4	2923.0	2943.2	2933.9	2862.3	2873.2	2814.0	2778.2	2786.0	2818.7	2691.1
35°	3035.0	3022.6	3030.4	3030.4	3008.6	2996.1	2971.2	2924.5	2961.9	3022.6	2852.9
37.5°	3142.4	3158.0	3203.1	3193.8	3165.8	3165.8	3162.7	3130.0	3178.2	3327.6	3111.3
40°	3237.4	3279.4	3307.4	3326.1	3358.8	3358.8	3385.2	3366.6	3453.7	3693.4	3427.3
42.5°	3337.0	3338.5	3491.1	3505.1	3578.2	3609.4	3629.6	3645.2	3808.6	4076.3	3765.0
45°	3464.6	3472.4	3606.2	3713.6	3827.3	3838.1	3914.4	3965.8	4166.6	4495.0	4132.3
47.5°	3632.7	3623.4	3766.6	3937.8	4079.4	4154.1	4245.9	4302.0	4549.4	4949.4	4533.9
50°	3853.7	3825.7	3908.2	4177.5	4344.0	4426.5	4589.9	4683.3	4972.8	5383.7	4809.4
52.5°	4123.0	4076.3	4141.7	4435.8	4622.6	4789.1	4944.8	5049.0	5351.0	5719.9	5013.3
55°	4407.8	4311.3	4330.0	4709.7	4979.0	5136.2	5349.4	5458.4	5766.6	6021.8	5217.1
57.5°	4689.5	4628.8	4591.5	4972.8	5403.9	5554.9	5751.0	5892.6	6154.1	6289.5	5389.9
60°	4926.1	4910.5	4849.8	5380.6	5853.7	5982.9	6188.4	6275.5	6473.2	6537.0	5393.0
62.5°	5120.6	5067.7	5164.2	5709.0	6311.3	6457.6	6683.3	6691.1	6831.2	6691.1	5234.3
65°	5273.2	5276.3	5430.4	6105.9	6840.5	7056.8	7238.9	7218.7	7128.4	6599.3	4859.2
67.5°	5411.7	5470.8	5696.5	6541.7	7520.7	7724.5	7926.9	7659.2	7209.4	6169.7	4126.1
70°	5520.6	5579.8	6056.1	7072.4	8322.2	8621.0	8666.2	7833.5	6837.4	5226.5	3112.9
72.5°	5508.2	5615.6	6259.9	7495.8	9033.5	9291.9	8927.7	7343.2	5696.5	3643.6	1816.4
73°	5534.7	5587.6	6242.8	7614.0	9249.8	9379.0	8806.3	7189.1	5372.8	3268.5	1536.2
75°	5024.1	5203.1	5933.1	7421.0	9017.9	8994.6	8109.0	5990.7	3819.5	1716.7	744.0
77.5°	3716.7	3830.4	4675.5	6102.8	7402.4	7253.0	6116.8	3828.8	1813.2	636.6	401.6
80°	1816.4	1905.1	2477.8	3523.8	4840.5	4852.9	3796.1	1992.2	776.7	359.5	273.9
82.5°	907.4	960.3	1190.7	1548.6	2381.3	2495.0	1925.3	1133.1	480.9	203.9	155.6
85°	593.0	630.4	733.1	758.0	1010.1	1066.2	896.5	884.1	312.8	110.5	126.1
87.5°	393.8	400.0	449.8	382.9	404.7	389.1	432.7	557.2	91.8	46.7	34.2
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°	2476.3	2476.3	2476.3	2476.3	2476.3	2476.3	2476.3	2476.3	2476.3	2476.3	2476.3
2.5°	2468.5	2446.7	2423.4	2390.7	2367.3	2331.5	2298.8	2284.8	2281.7	2283.3	2267.7
5°	2404.7	2373.6	2326.9	2259.9	2221.0	2161.9	2112.1	2085.6	2057.6	2062.3	2049.8
7.5°	2316.0	2281.7	2210.1	2132.3	2035.8	1951.8	1905.1	1839.7	1802.3	1774.3	1789.9
10°	2287.9	2228.8	2121.4	2014.0	1864.6	1754.1	1646.7	1572.0	1520.6	1470.8	1492.6
12.5°	2273.9	2214.8	2065.4	1906.6	1713.6	1545.5	1394.6	1302.7	1229.6	1186.0	1203.1
15°	2261.5	2188.3	2012.5	1788.3	1572.0	1351.0	1181.3	1059.9	989.9	947.9	952.5
17.5°	2278.6	2174.3	1934.6	1673.2	1416.3	1179.8	991.4	865.4	793.8	767.3	761.1
20°	2261.5	2158.8	1858.4	1558.0	1260.7	1016.3	835.8	731.5	681.7	659.9	655.3
22.5°	2267.7	2121.4	1779.0	1430.4	1116.0	879.4	731.5	652.1	613.2	602.3	605.5
25°	2297.3	2099.6	1699.6	1290.3	972.8	778.2	664.6	603.9	575.9	565.0	568.1
27.5°	2319.1	2118.3	1628.0	1158.0	851.4	687.9	608.6	568.1	549.4	541.6	540.1
30°	2373.6	2129.2	1558.0	1039.7	751.8	628.8	569.7	537.0	524.5	519.8	518.3
32.5°	2454.5	2149.4	1477.0	930.7	678.6	572.8	538.5	510.5	507.4	502.7	504.3
35°	2586.8	2219.5	1386.8	837.4	608.6	535.4	505.8	487.2	487.2	487.2	491.8
37.5°	2776.7	2317.5	1305.8	748.6	563.4	502.7	477.8	471.6	468.5	473.2	476.3
40°	3021.0	2435.8	1240.5	678.6	524.5	480.9	459.1	456.0	454.5	452.9	456.0
42.5°	3288.7	2586.8	1184.4	624.1	496.5	457.6	442.0	438.9	432.7	435.8	440.5
45°	3554.9	2773.6	1134.6	580.5	477.8	445.1	423.3	421.8	418.7	417.1	424.9
47.5°	3850.6	2957.2	1119.1	554.1	463.8	426.5	410.9	409.3	400.0	398.4	404.7
50°	4081.0	3092.6	1136.2	541.6	443.6	412.5	401.6	393.8	386.0	378.2	378.2
52.5°	4239.7	3186.0	1148.6	532.3	432.7	393.8	379.8	376.7	368.9	361.1	358.0
55°	4382.9	3242.0	1151.8	533.9	421.8	372.0	362.6	361.1	356.4	344.0	340.9
57.5°	4431.1	3218.7	1089.5	519.8	415.6	358.0	345.5	348.6	342.4	331.5	330.0
60°	4426.5	3056.8	947.9	501.2	401.6	342.4	326.8	336.2	336.2	323.7	322.2
62.5°	4157.2	2683.3	775.1	465.4	386.0	326.8	309.7	323.7	328.4	320.6	319.1
65°	3598.5	2185.2	647.5	429.6	362.6	309.7	292.6	308.2	316.0	312.8	311.3
67.5°	2977.4	1671.6	538.5	382.9	333.1	286.4	272.4	283.3	287.9	289.5	291.1
70°	2104.3	1112.8	449.8	331.5	292.6	261.5	245.9	247.5	245.9	250.6	250.6
72.5°	1144.0	641.2	365.8	281.7	252.1	227.2	216.3	208.6	208.6	207.0	207.0
73°	979.0	575.9	348.6	273.9	241.2	221.0	208.6	202.3	202.3	200.8	199.2
75°	549.4	421.8	298.8	235.0	208.6	193.0	183.7	174.3	172.8	172.8	172.8
77.5°	361.1	328.4	238.1	188.3	168.1	154.1	151.0	141.6	141.6	141.6	140.1
80°	270.8	258.4	183.7	143.2	129.2	118.3	115.2	108.9	107.4	101.2	102.7
82.5°	180.5	203.9	133.9	101.2	87.2	80.9	80.9	79.4	74.7	66.9	66.9
85°	143.2	166.5	96.5	62.3	51.4	43.6	45.1	43.6	42.0	34.2	32.7
87.5°	26.5	66.9	28.0	17.1	12.5	7.8	7.8	4.7	3.1	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)