

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: P481044

Luminaire Tested: **IFLD-S-SA3C-830-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481044
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-830-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

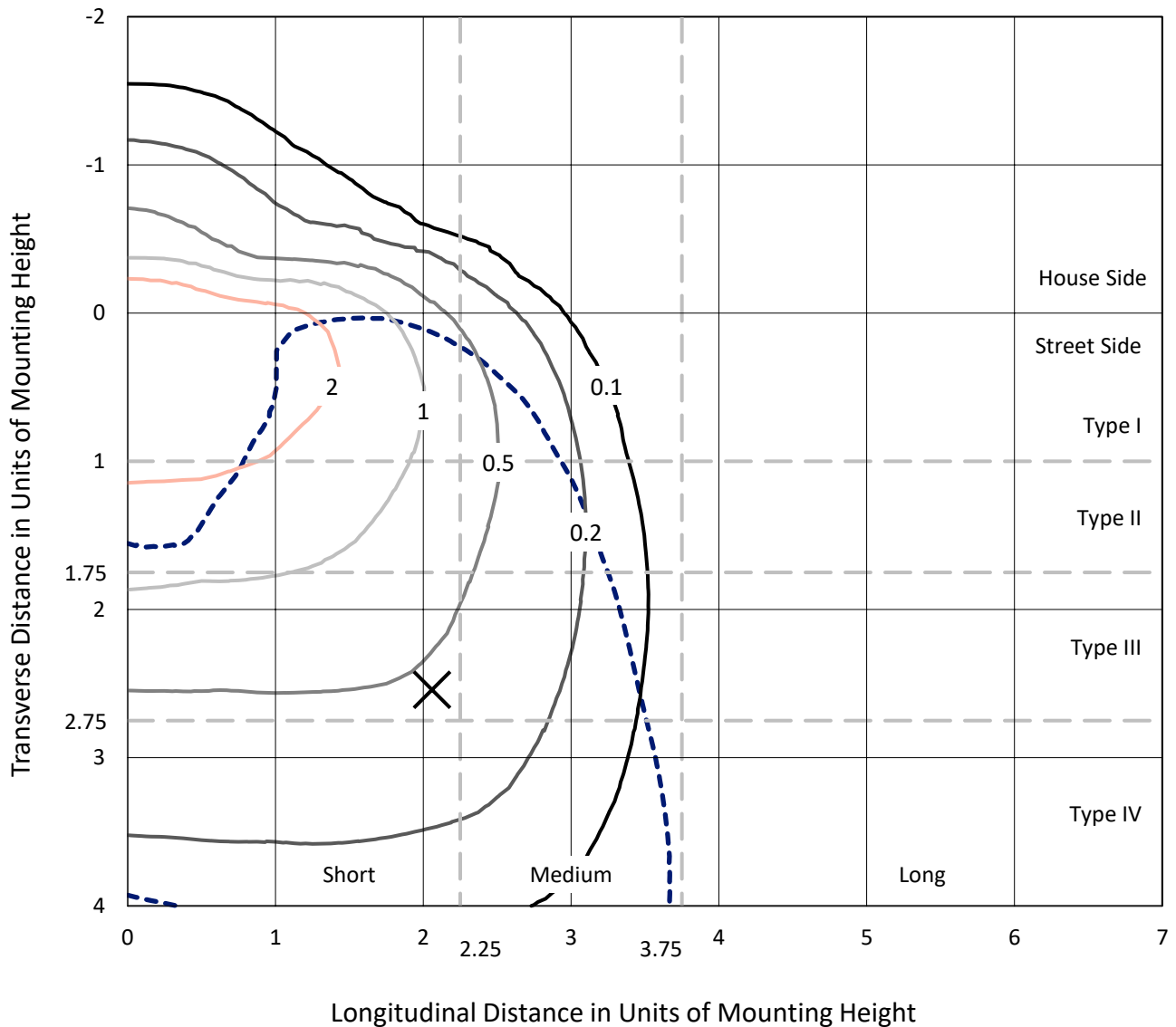
Lumens per Lamp: N/A
Luminaire Lumens: 16280.5 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

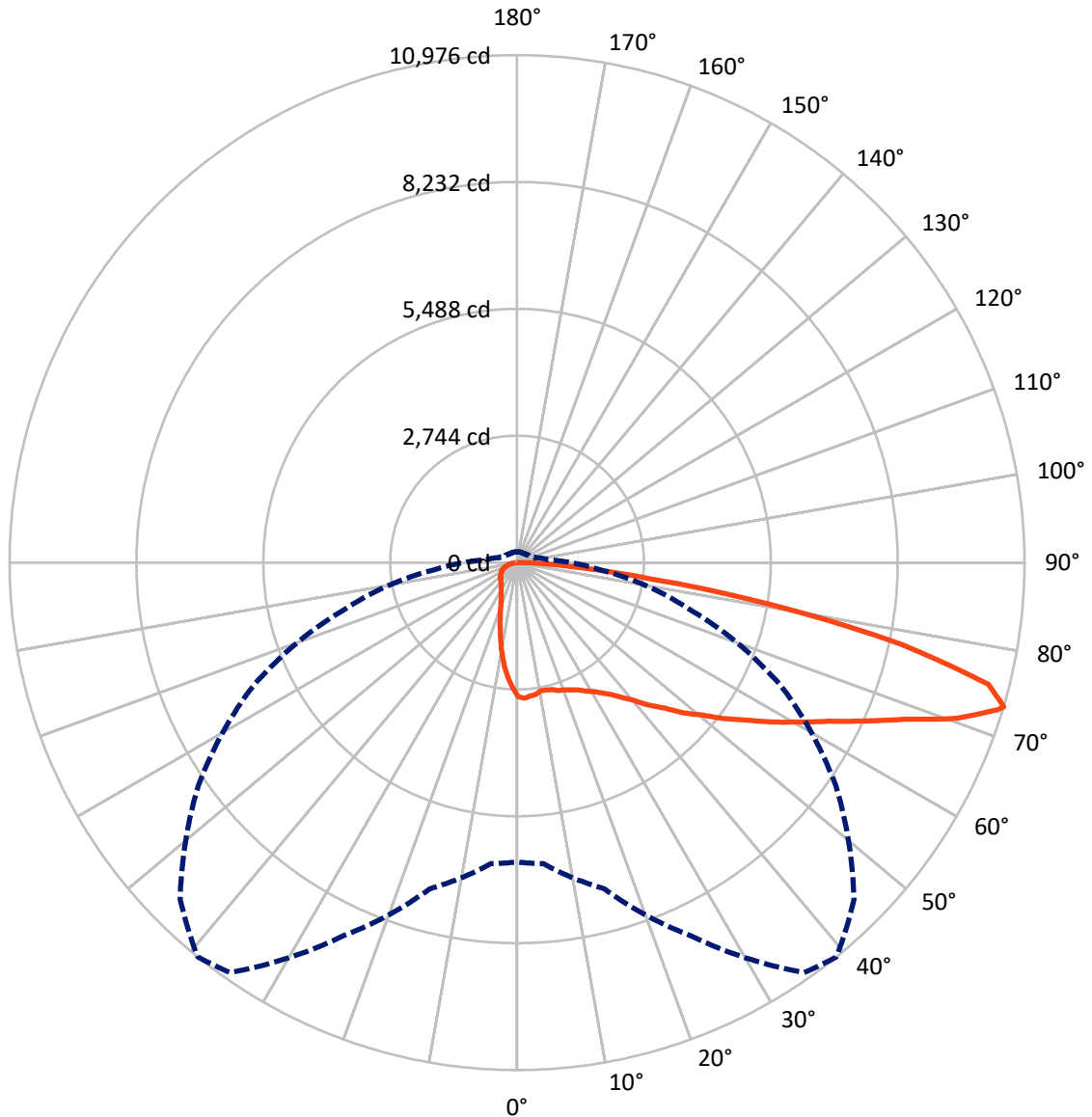
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	2288.6	0.0	2288.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	13991.9	0.0	13991.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	16280.5	0.0	16280.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.6	1.5
10°-20°	639.5	3.9
20°-30°	977.3	6.0
30°-40°	1424.9	8.8
40°-50°	2153.2	13.2
50°-60°	3117.9	19.2
60°-70°	3961.4	24.3
70°-80°	3211.4	19.7
80°-90°	543.3	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°	16280.5	100.0
0°-180°	16280.5	100.0

Coefficient of Utilization



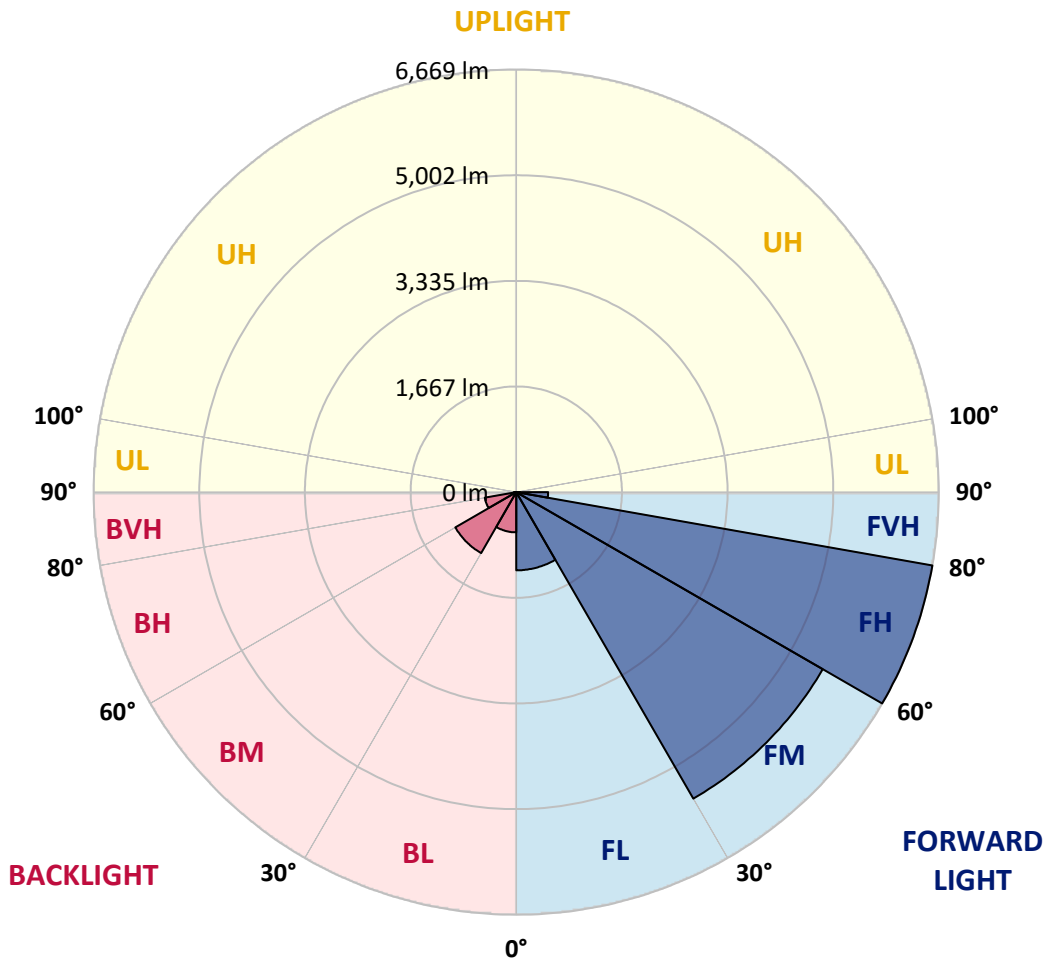
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1233.7	7.6			
FM (30°-60°)	5585.2	34.3			
FH (60°-80°)	6669.5	41.0			G3/7500
FVH (80°-90°)	503.5	3.1			G4/750
BL (0°-30°)	634.7	3.9	B2/1000		
BM (30°-60°)	1110.7	6.8	B2/2500		
BH (60°-80°)	503.3	3.1	B2/1000		G2/1000
BVH (80°-90°)	39.9	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2898.0	2898.0	2898.0	2898.0	2898.0	2898.0	2898.0	2898.0	2898.0	2898.0	2898.0
2.5°	2967.2	2936.3	2941.7	2930.8	2941.7	2938.1	2932.6	2905.3	2932.6	2905.3	2898.0
5°	2927.2	2927.2	2945.4	2918.1	2921.7	2903.5	2921.7	2901.7	2883.5	2837.9	2825.2
7.5°	2914.4	2912.6	2914.4	2876.2	2894.4	2883.5	2865.2	2843.4	2806.9	2777.8	2735.9
10°	2827.0	2845.2	2825.2	2836.1	2850.7	2817.9	2816.1	2810.6	2794.2	2755.9	2730.4
12.5°	2779.6	2810.6	2821.5	2812.4	2825.2	2828.8	2817.9	2810.6	2790.6	2765.1	2692.2
15°	2799.7	2763.2	2794.2	2854.3	2841.6	2850.7	2852.5	2845.2	2836.1	2788.7	2741.4
17.5°	2805.1	2783.3	2848.8	2861.6	2878.0	2910.8	2888.9	2887.1	2852.5	2819.7	2750.5
20°	2817.9	2808.8	2861.6	2929.0	2930.8	2936.3	2947.2	2919.9	2901.7	2845.2	2739.6
22.5°	2865.2	2896.2	2945.4	2974.5	2990.9	2994.6	2994.6	2939.9	2919.9	2874.3	2790.6
25°	3007.3	2974.5	3043.7	3078.4	3054.7	3049.2	3036.5	2987.3	2965.4	2925.3	2814.2
27.5°	3111.1	3109.3	3149.4	3196.8	3133.0	3145.8	3100.2	3085.6	3036.5	3014.6	2856.1
30°	3253.2	3293.3	3291.5	3306.0	3222.3	3236.8	3178.5	3151.2	3123.9	3136.6	2980.0
32.5°	3435.4	3420.8	3444.5	3433.5	3349.8	3362.5	3293.3	3251.4	3260.5	3298.8	3149.4
35°	3551.9	3537.4	3546.5	3546.5	3521.0	3506.4	3477.3	3422.6	3466.3	3537.4	3338.8
37.5°	3677.6	3695.8	3748.7	3737.7	3705.0	3705.0	3701.3	3663.1	3719.5	3894.4	3641.2
40°	3788.7	3837.9	3870.7	3892.6	3930.8	3930.8	3961.8	3939.9	4041.9	4322.4	4011.0
42.5°	3905.3	3907.1	4085.7	4102.0	4187.7	4224.1	4247.8	4266.0	4457.2	4770.5	4406.2
45°	4054.7	4063.8	4220.4	4346.1	4479.1	4491.8	4581.1	4641.2	4876.2	5260.5	4836.1
47.5°	4251.4	4240.5	4408.1	4608.4	4774.2	4861.6	4969.1	5034.7	5324.3	5792.4	5306.1
50°	4510.1	4477.3	4573.8	4888.9	5083.8	5180.4	5371.6	5480.9	5819.7	6300.6	5628.5
52.5°	4825.2	4770.5	4847.0	5191.3	5409.9	5604.8	5786.9	5909.0	6262.4	6694.1	5867.1
55°	5158.5	5045.6	5067.4	5511.9	5827.0	6011.0	6260.5	6388.0	6748.7	7047.4	6105.7
57.5°	5488.2	5417.2	5373.5	5819.7	6324.3	6501.0	6730.5	6896.2	7202.3	7360.7	6307.9
60°	5765.1	5746.9	5675.8	6297.0	6850.7	7001.9	7242.3	7344.3	7575.7	7650.3	6311.5
62.5°	5992.8	5930.8	6043.8	6681.3	7386.2	7557.5	7821.6	7830.7	7994.6	7830.7	6125.7
65°	6171.3	6174.9	6355.3	7145.8	8005.5	8258.7	8471.9	8448.2	8342.5	7723.2	5686.8
67.5°	6333.4	6402.6	6666.7	7655.8	8801.5	9040.2	9277.0	8963.7	8437.2	7220.5	4828.8
70°	6460.9	6530.1	7087.5	8276.9	9739.6	10089.4	10142.2	9167.7	8001.9	6116.6	3643.0
72.5°	6446.3	6572.0	7326.1	8772.4	10572.1	10874.4	10448.2	8593.9	6666.7	4264.2	2125.7
73°	6477.3	6539.2	7306.1	8910.8	10825.2	10976.4	10306.1	8413.6	6287.9	3825.2	1797.8
75°	5879.8	6089.3	6943.6	8685.0	10553.8	10526.5	9490.1	7011.0	4470.0	2009.1	870.7
77.5°	4349.8	4482.7	5471.8	7142.1	8663.1	8488.2	7158.5	4480.9	2122.1	745.0	469.9
80°	2125.7	2229.5	2899.8	4123.9	5664.9	5679.5	4442.7	2331.5	908.9	420.8	320.6
82.5°	1061.9	1123.9	1393.5	1812.4	2786.9	2919.9	2253.2	1326.1	562.8	238.6	182.2
85°	694.0	737.7	857.9	887.1	1182.2	1247.7	1049.2	1034.6	366.1	129.3	147.5
87.5°	460.8	468.1	526.4	448.1	473.6	455.4	506.4	652.1	107.5	54.6	40.1
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°	2898.0	2898.0	2898.0	2898.0	2898.0	2898.0	2898.0	2898.0	2898.0	2898.0	2898.0
2.5°	2888.9	2863.4	2836.1	2797.8	2770.5	2728.6	2690.4	2674.0	2670.3	2672.2	2653.9
5°	2814.2	2777.8	2723.2	2644.8	2599.3	2530.1	2471.8	2440.8	2408.0	2413.5	2398.9
7.5°	2710.4	2670.3	2586.5	2495.5	2382.5	2284.2	2229.5	2153.0	2109.3	2076.5	2094.7
10°	2677.6	2608.4	2482.7	2357.0	2182.2	2052.8	1927.2	1839.7	1779.6	1721.3	1746.8
12.5°	2661.2	2592.0	2417.1	2231.4	2005.5	1808.8	1632.1	1524.6	1439.0	1388.0	1408.0
15°	2646.7	2561.0	2355.2	2092.9	1839.7	1581.1	1382.5	1240.4	1158.5	1109.3	1114.8
17.5°	2666.7	2544.7	2264.1	1958.1	1657.6	1380.7	1160.3	1012.8	929.0	898.0	890.7
20°	2646.7	2526.4	2174.9	1823.3	1475.4	1189.4	978.2	856.1	797.8	772.3	766.9
22.5°	2653.9	2482.7	2082.0	1674.0	1306.0	1029.2	856.1	763.2	717.7	704.9	708.6
25°	2688.6	2457.2	1989.1	1510.0	1138.4	910.8	777.8	706.7	674.0	661.2	664.9
27.5°	2714.1	2479.1	1905.3	1355.2	996.4	805.1	712.2	664.9	643.0	633.9	632.1
30°	2777.8	2491.8	1823.3	1216.8	879.8	735.9	666.7	628.4	613.8	608.4	606.6
32.5°	2872.5	2515.5	1728.6	1089.3	794.2	670.3	630.2	597.5	593.8	588.3	590.2
35°	3027.4	2597.5	1623.0	980.0	712.2	626.6	592.0	570.1	570.1	570.1	575.6
37.5°	3249.6	2712.2	1528.2	876.1	659.4	588.3	559.2	551.9	548.3	553.7	557.4
40°	3535.6	2850.7	1451.7	794.2	613.8	562.8	537.3	533.7	531.9	530.1	533.7
42.5°	3848.9	3027.4	1386.2	730.4	581.1	535.5	517.3	513.7	506.4	510.0	515.5
45°	4160.3	3245.9	1327.9	679.4	559.2	521.0	495.5	493.6	490.0	488.2	497.3
47.5°	4506.4	3460.9	1309.7	648.5	542.8	499.1	480.9	479.1	468.1	466.3	473.6
50°	4776.0	3619.3	1329.7	633.9	519.1	482.7	469.9	460.8	451.7	442.6	442.6
52.5°	4961.8	3728.6	1344.3	623.0	506.4	460.8	444.4	440.8	431.7	422.6	418.9
55°	5129.4	3794.2	1347.9	624.8	493.6	435.3	424.4	422.6	417.1	402.6	398.9
57.5°	5185.8	3766.9	1275.1	608.4	486.3	418.9	404.4	408.0	400.7	388.0	386.2
60°	5180.4	3577.4	1109.3	586.5	469.9	400.7	382.5	393.4	393.4	378.9	377.1
62.5°	4865.3	3140.3	907.1	544.6	451.7	382.5	362.5	378.9	384.3	375.2	373.4
65°	4211.3	2557.4	757.7	502.7	424.4	362.5	342.4	360.7	369.8	366.1	364.3
67.5°	3484.6	1956.3	630.2	448.1	389.8	335.2	318.8	331.5	337.0	338.8	340.6
70°	2462.7	1302.4	526.4	388.0	342.4	306.0	287.8	289.6	287.8	293.3	293.3
72.5°	1338.8	750.5	428.1	329.7	295.1	265.9	253.2	244.1	244.1	242.3	242.3
73°	1145.7	674.0	408.0	320.6	282.3	258.7	244.1	236.8	236.8	235.0	233.2
75°	643.0	493.6	349.7	275.0	244.1	225.9	214.9	204.0	202.2	202.2	202.2
77.5°	422.6	384.3	278.7	220.4	196.7	180.3	176.7	165.8	165.8	165.8	163.9
80°	316.9	302.4	214.9	167.6	151.2	138.4	134.8	127.5	125.7	118.4	120.2
82.5°	211.3	238.6	156.6	118.4	102.0	94.7	94.7	92.9	87.4	78.3	78.3
85°	167.6	194.9	112.9	72.9	60.1	51.0	52.8	51.0	49.2	40.1	38.3
87.5°	31.0	78.3	32.8	20.0	14.6	9.1	9.1	5.5	3.6	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)