

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: P481045

Luminaire Tested: **IFLD-S-SA3D-830-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481045
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-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

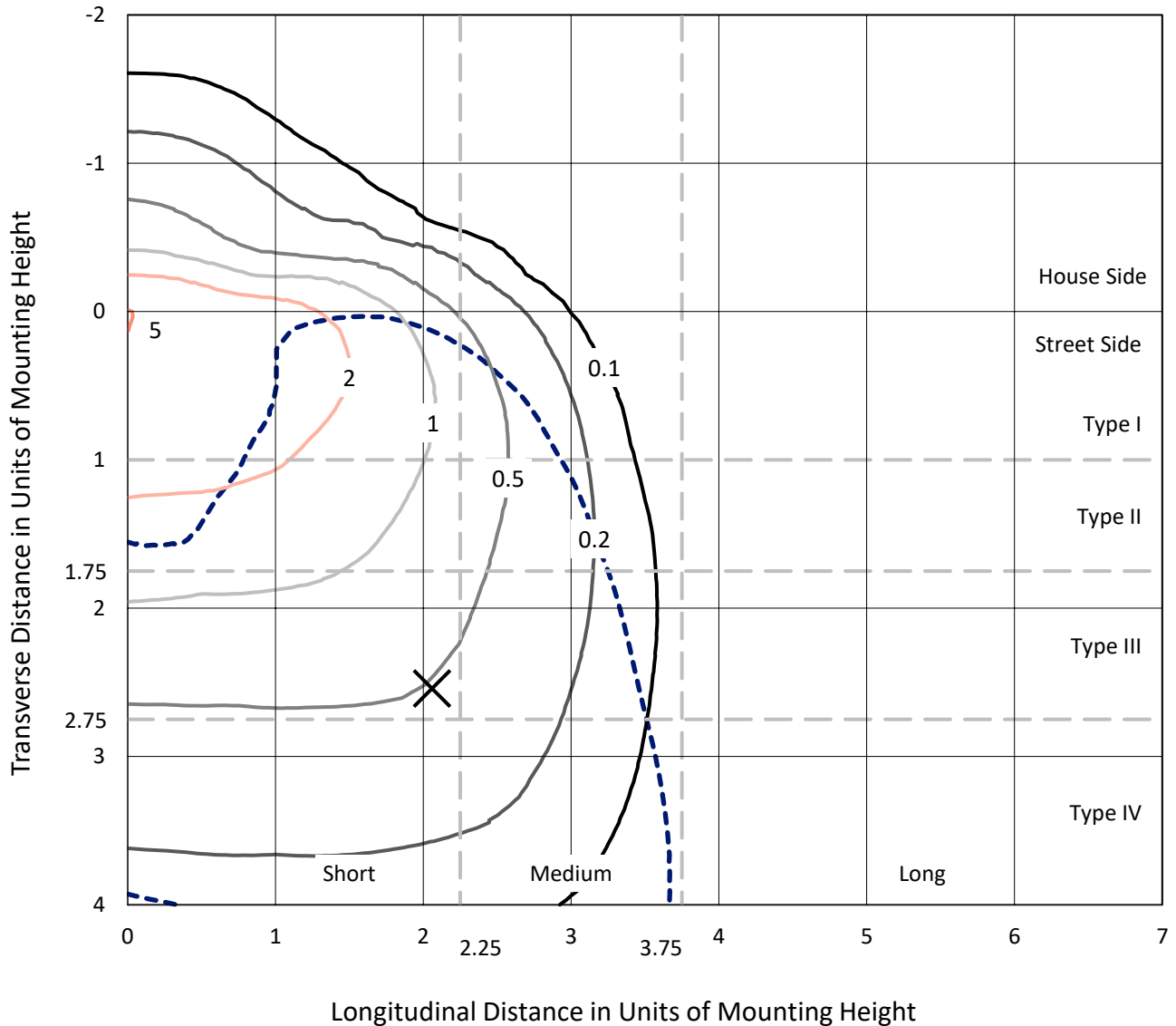
Lumens per Lamp: N/A
Luminaire Lumens: 17913.8 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 184.1
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

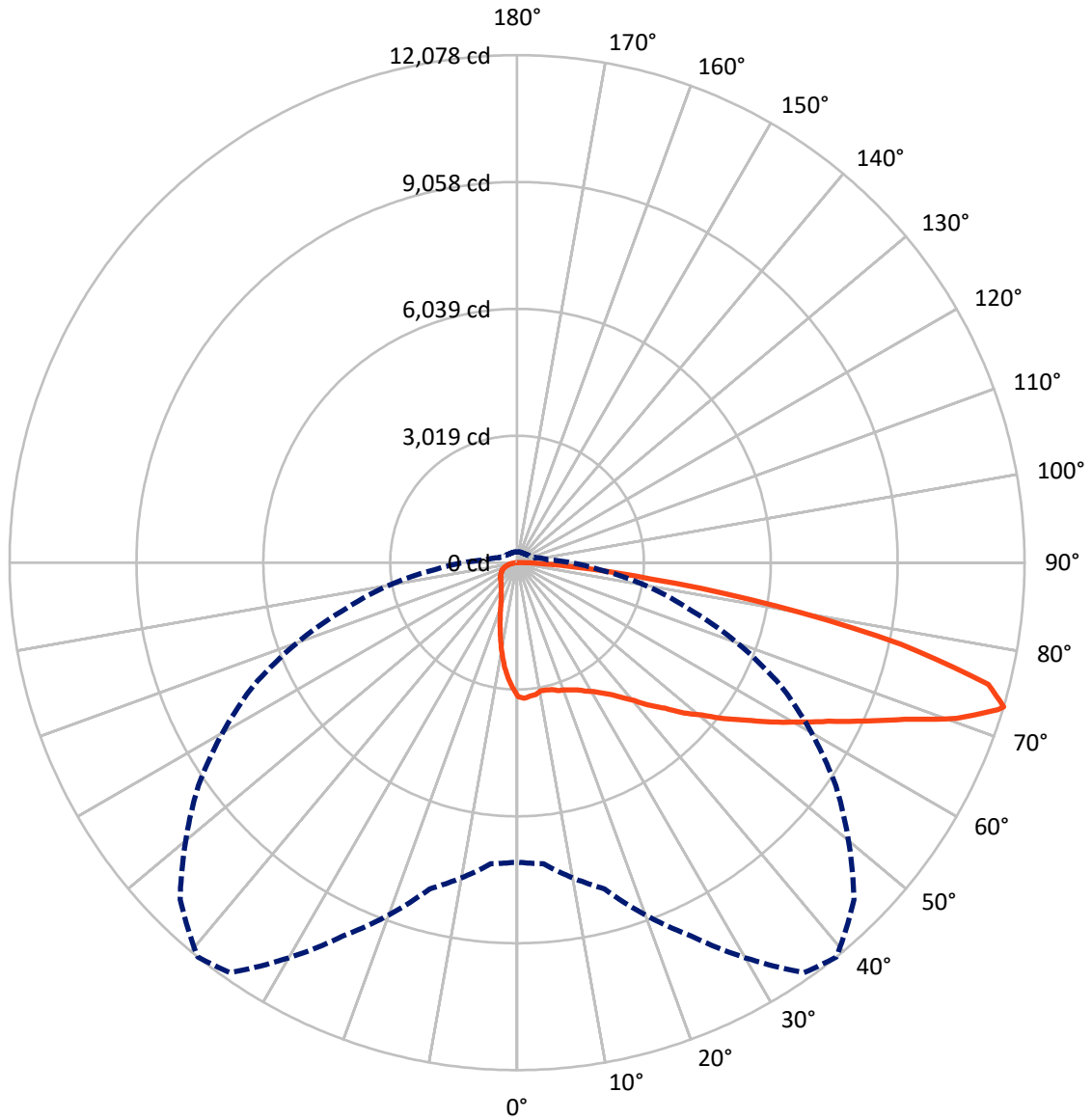
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	2518.2	0.0	2518.2
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	15395.6	0.0	15395.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	17913.8	0.0	17913.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.8	1.5
10°-20°	703.7	3.9
20°-30°	1075.3	6.0
30°-40°	1567.8	8.8
40°-50°	2369.2	13.2
50°-60°	3430.7	19.2
60°-70°	4358.9	24.3
70°-80°	3533.5	19.7
80°-90°	597.9	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°	17913.8	100.0
0°-180°	17913.8	100.0

Coefficient of Utilization



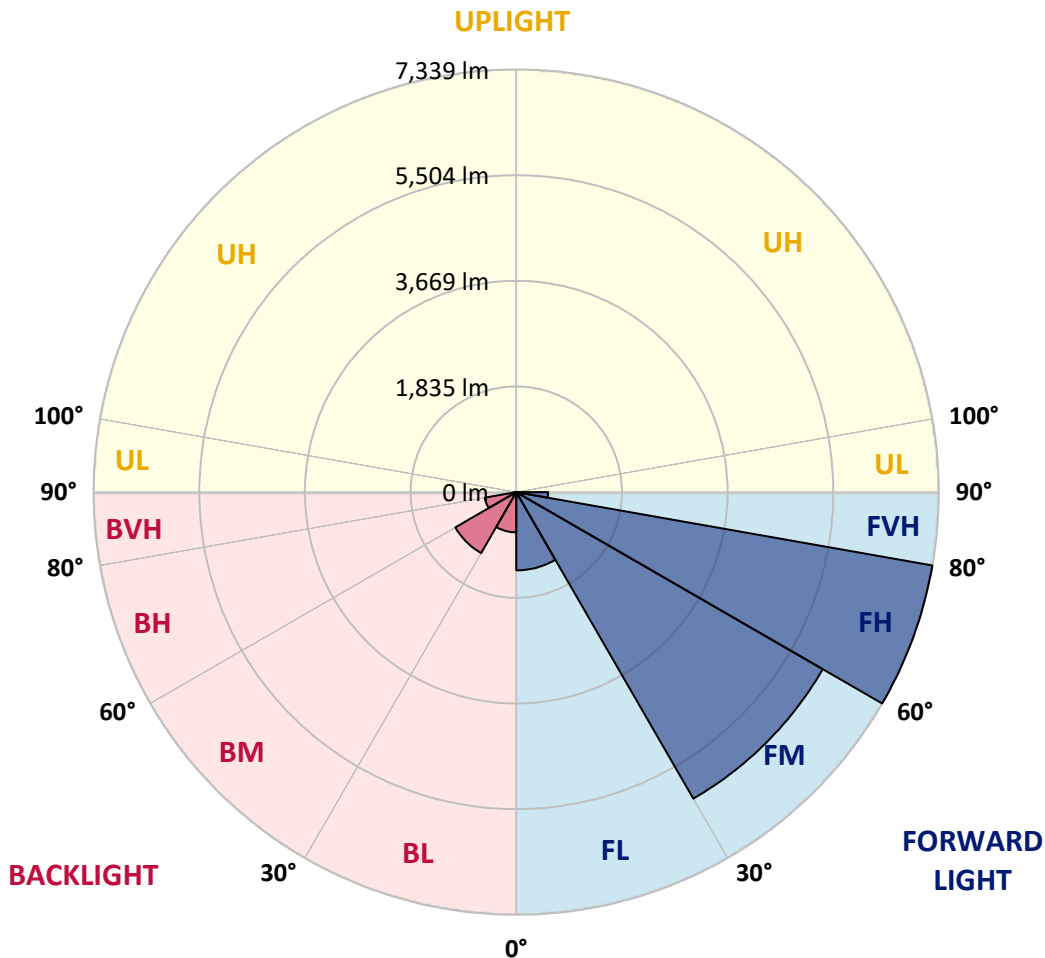
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1357.5	7.6			
FM (30°-60°)	6145.6	34.3			
FH (60°-80°)	7338.6	41.0			G3/7500
FVH (80°-90°)	554.0	3.1			G4/750
BL (0°-30°)	698.3	3.9	B2/1000		
BM (30°-60°)	1222.1	6.8	B2/2500		
BH (60°-80°)	553.8	3.1	B2/1000		G2/1000
BVH (80°-90°)	43.9	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°	3188.8	3188.8	3188.8	3188.8	3188.8	3188.8	3188.8	3188.8	3188.8	3188.8	3188.8
2.5°	3264.9	3230.9	3236.9	3224.8	3236.9	3232.9	3226.8	3196.8	3226.8	3196.8	3188.8
5°	3220.8	3220.8	3240.9	3210.8	3214.8	3194.8	3214.8	3192.8	3172.7	3122.6	3108.6
7.5°	3206.8	3204.8	3206.8	3164.7	3184.8	3172.7	3152.7	3128.6	3088.5	3056.5	3010.4
10°	3110.6	3130.6	3108.6	3120.6	3136.7	3100.6	3098.6	3092.6	3074.5	3032.4	3004.4
12.5°	3058.5	3092.6	3104.6	3094.6	3108.6	3112.6	3100.6	3092.6	3070.5	3042.5	2962.3
15°	3080.5	3040.4	3074.5	3140.7	3126.6	3136.7	3138.7	3130.6	3120.6	3068.5	3016.4
17.5°	3086.5	3062.5	3134.6	3148.7	3166.7	3202.8	3178.7	3176.7	3138.7	3102.6	3026.4
20°	3100.6	3090.6	3148.7	3222.8	3224.8	3230.9	3242.9	3212.8	3192.8	3130.6	3014.4
22.5°	3152.7	3186.8	3240.9	3272.9	3291.0	3295.0	3295.0	3234.9	3212.8	3162.7	3070.5
25°	3309.0	3272.9	3349.1	3387.2	3361.1	3355.1	3341.1	3287.0	3262.9	3218.8	3096.6
27.5°	3423.3	3421.3	3465.3	3517.5	3447.3	3461.3	3411.2	3395.2	3341.1	3317.0	3142.7
30°	3579.6	3623.7	3621.7	3637.7	3545.5	3561.6	3497.4	3467.4	3437.3	3451.3	3279.0
32.5°	3780.0	3764.0	3790.0	3778.0	3685.8	3699.8	3623.7	3577.6	3587.6	3629.7	3465.3
35°	3908.3	3892.3	3902.3	3902.3	3874.2	3858.2	3826.1	3766.0	3814.1	3892.3	3673.8
37.5°	4046.6	4066.6	4124.7	4112.7	4076.6	4076.6	4072.6	4030.5	4092.7	4285.1	4006.5
40°	4168.8	4223.0	4259.0	4283.1	4325.2	4325.2	4359.2	4335.2	4447.4	4756.1	4413.4
42.5°	4297.1	4299.1	4495.5	4513.6	4607.8	4647.9	4673.9	4694.0	4904.4	5249.1	4848.3
45°	4461.5	4471.5	4643.8	4782.1	4928.5	4942.5	5040.7	5106.8	5365.4	5788.3	5321.3
47.5°	4677.9	4665.9	4850.3	5070.8	5253.1	5349.3	5467.6	5539.7	5858.4	6373.5	5838.4
50°	4962.5	4926.4	5032.7	5379.4	5593.9	5700.1	5910.5	6030.8	6403.6	6932.7	6193.1
52.5°	5309.3	5249.1	5333.3	5712.1	5952.6	6167.1	6367.5	6501.8	6890.6	7365.6	6455.7
55°	5676.0	5551.8	5575.8	6064.9	6411.6	6614.0	6888.6	7028.9	7425.7	7754.4	6718.2
57.5°	6038.8	5960.6	5912.5	6403.6	6958.8	7153.2	7405.7	7588.1	7924.8	8099.2	6940.7
60°	6343.5	6323.4	6245.2	6928.7	7538.0	7704.3	7968.9	8081.1	8335.7	8417.9	6944.7
62.5°	6594.0	6525.8	6650.1	7351.6	8127.2	8315.6	8606.3	8616.3	8796.7	8616.3	6740.3
65°	6790.4	6794.4	6992.8	7862.7	8808.7	9087.3	9321.8	9295.7	9179.5	8498.0	6257.3
67.5°	6968.8	7044.9	7335.6	8423.9	9684.5	9947.1	10207.6	9862.9	9283.7	7944.8	5313.3
70°	7109.1	7185.2	7798.5	9107.3	10716.7	11101.5	11159.7	10087.4	8804.7	6730.3	4008.5
72.5°	7093.0	7231.3	8061.1	9652.5	11632.7	11965.4	11496.4	9456.1	7335.6	4692.0	2339.0
73°	7127.1	7195.3	8039.0	9804.8	11911.3	12077.6	11340.0	9257.6	6918.7	4208.9	1978.2
75°	6469.7	6700.2	7640.2	9556.3	11612.6	11582.6	10442.1	7714.4	4918.4	2210.7	958.0
77.5°	4786.1	4932.5	6020.8	7858.7	9532.2	9339.8	7876.7	4930.5	2335.0	819.7	517.1
80°	2339.0	2453.2	3190.8	4537.6	6233.2	6249.3	4888.4	2565.4	1000.1	463.0	352.7
82.5°	1168.5	1236.6	1533.3	1994.2	3066.5	3212.8	2479.3	1459.1	619.3	262.6	200.4
85°	763.6	811.7	944.0	976.1	1300.8	1372.9	1154.4	1138.4	402.9	142.3	162.3
87.5°	507.1	515.1	579.2	493.0	521.1	501.1	557.2	717.5	118.3	60.1	44.1
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°	3188.8	3188.8	3188.8	3188.8	3188.8	3188.8	3188.8	3188.8	3188.8	3188.8	3188.8
2.5°	3178.7	3150.7	3120.6	3078.5	3048.5	3002.4	2960.3	2942.2	2938.2	2940.2	2920.2
5°	3096.6	3056.5	2996.4	2910.2	2860.1	2783.9	2719.8	2685.7	2649.6	2655.6	2639.6
7.5°	2982.3	2938.2	2846.0	2745.8	2621.6	2513.3	2453.2	2369.0	2320.9	2284.8	2304.9
10°	2946.2	2870.1	2731.8	2593.5	2401.1	2258.8	2120.5	2024.3	1958.2	1894.0	1922.1
12.5°	2928.2	2852.0	2659.6	2455.2	2206.7	1990.2	1795.8	1677.6	1583.4	1527.2	1549.3
15°	2912.2	2818.0	2591.5	2302.9	2024.3	1739.7	1521.2	1364.9	1274.7	1220.6	1226.6
17.5°	2934.2	2799.9	2491.3	2154.6	1823.9	1519.2	1276.7	1114.4	1022.2	988.1	980.1
20°	2912.2	2779.9	2393.1	2006.3	1623.4	1308.8	1076.3	942.0	877.9	849.8	843.8
22.5°	2920.2	2731.8	2290.9	1841.9	1437.0	1132.4	942.0	839.8	789.7	775.6	779.7
25°	2958.3	2703.7	2188.6	1661.5	1252.7	1002.1	855.8	777.6	741.6	727.5	731.6
27.5°	2986.3	2727.8	2096.4	1491.2	1096.3	885.9	783.7	731.6	707.5	697.5	695.5
30°	3056.5	2741.8	2006.3	1338.8	968.1	809.7	733.6	691.5	675.4	669.4	667.4
32.5°	3160.7	2767.9	1902.0	1198.5	873.9	737.6	693.5	657.4	653.4	647.4	649.4
35°	3331.1	2858.1	1785.8	1078.3	783.7	689.5	651.4	627.3	627.3	627.3	633.3
37.5°	3575.6	2984.3	1681.6	964.0	725.5	647.4	615.3	607.3	603.3	609.3	613.3
40°	3890.2	3136.7	1597.4	873.9	675.4	619.3	591.3	587.2	585.2	583.2	587.2
42.5°	4235.0	3331.1	1525.2	803.7	639.4	589.2	569.2	565.2	557.2	561.2	567.2
45°	4577.7	3571.6	1461.1	747.6	615.3	573.2	545.2	543.2	539.1	537.1	547.2
47.5°	4958.5	3808.1	1441.1	713.5	597.3	549.2	529.1	527.1	515.1	513.1	521.1
50°	5255.1	3982.4	1463.1	697.5	571.2	531.1	517.1	507.1	497.1	487.0	487.0
52.5°	5459.6	4102.7	1479.1	685.5	557.2	507.1	489.0	485.0	475.0	465.0	461.0
55°	5644.0	4174.9	1483.1	687.5	543.2	479.0	467.0	465.0	459.0	442.9	438.9
57.5°	5706.1	4144.8	1403.0	669.4	535.1	461.0	444.9	449.0	440.9	426.9	424.9
60°	5700.1	3936.3	1220.6	645.4	517.1	440.9	420.9	432.9	432.9	416.9	414.9
62.5°	5353.4	3455.3	998.1	599.3	497.1	420.9	398.8	416.9	422.9	412.9	410.9
65°	4633.8	2814.0	833.8	553.2	467.0	398.8	376.8	396.8	406.9	402.9	400.9
67.5°	3834.1	2152.6	693.5	493.0	428.9	368.8	350.7	364.8	370.8	372.8	374.8
70°	2709.7	1433.0	579.2	426.9	376.8	336.7	316.7	318.7	316.7	322.7	322.7
72.5°	1473.1	825.8	471.0	362.8	324.7	292.6	278.6	268.6	268.6	266.6	266.6
73°	1260.7	741.6	449.0	352.7	310.7	284.6	268.6	260.6	260.6	258.5	256.5
75°	707.5	543.2	384.8	302.6	268.6	248.5	236.5	224.5	222.5	222.5	222.5
77.5°	465.0	422.9	306.7	242.5	216.5	198.4	194.4	182.4	182.4	182.4	180.4
80°	348.7	332.7	236.5	184.4	166.4	152.3	148.3	140.3	138.3	130.3	132.3
82.5°	232.5	262.6	172.4	130.3	112.2	104.2	104.2	102.2	96.2	86.2	86.2
85°	184.4	214.5	124.3	80.2	66.1	56.1	58.1	56.1	54.1	44.1	42.1
87.5°	34.1	86.2	36.1	22.0	16.0	10.0	10.0	6.0	4.0	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)