

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: P480634

Luminaire Tested: **IFLD-M-SA4B-827-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480634  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-827-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (64) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

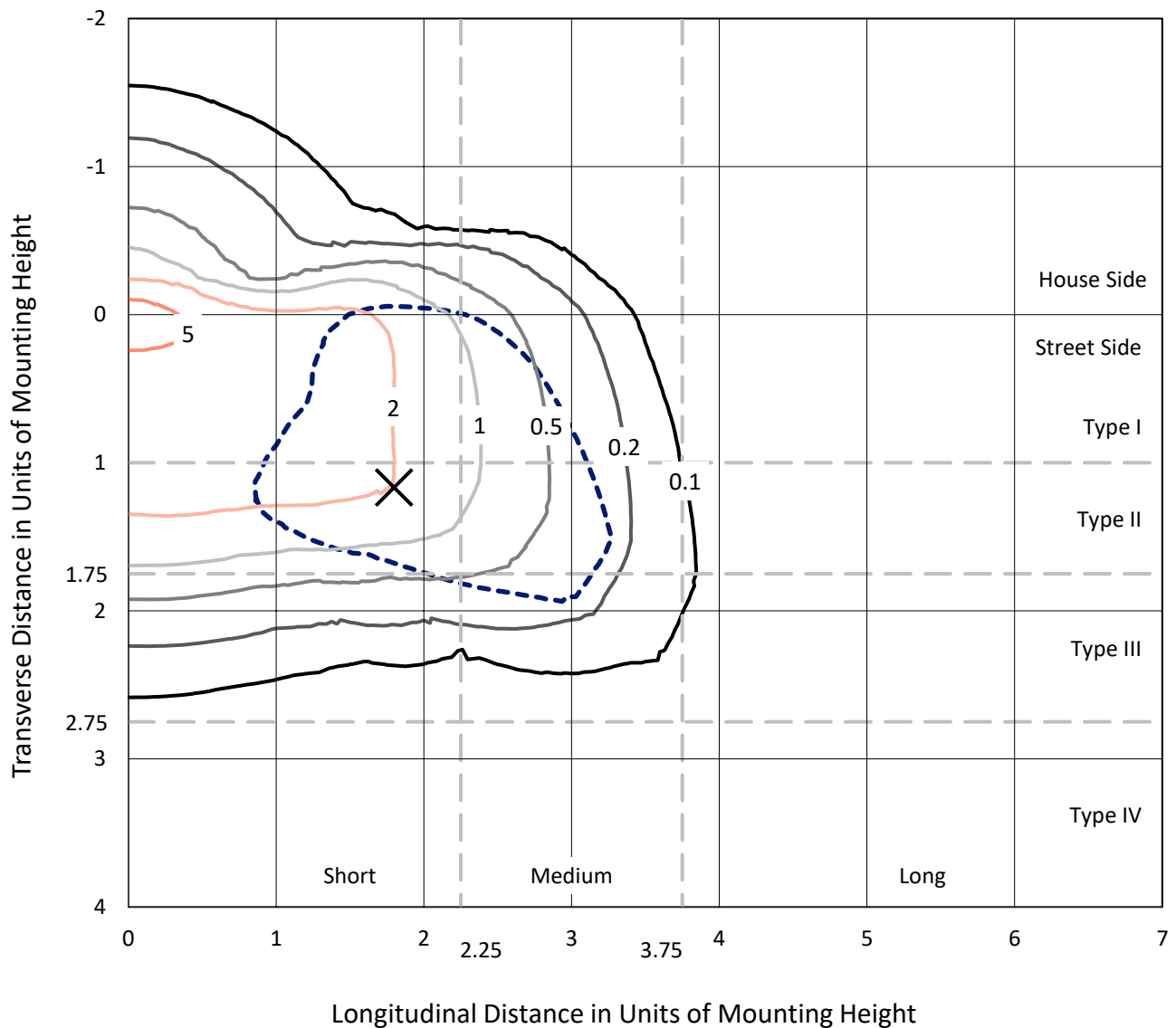
Lumens per Lamp: N/A  
Luminaire Lumens: 16566.4 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 166.1  
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

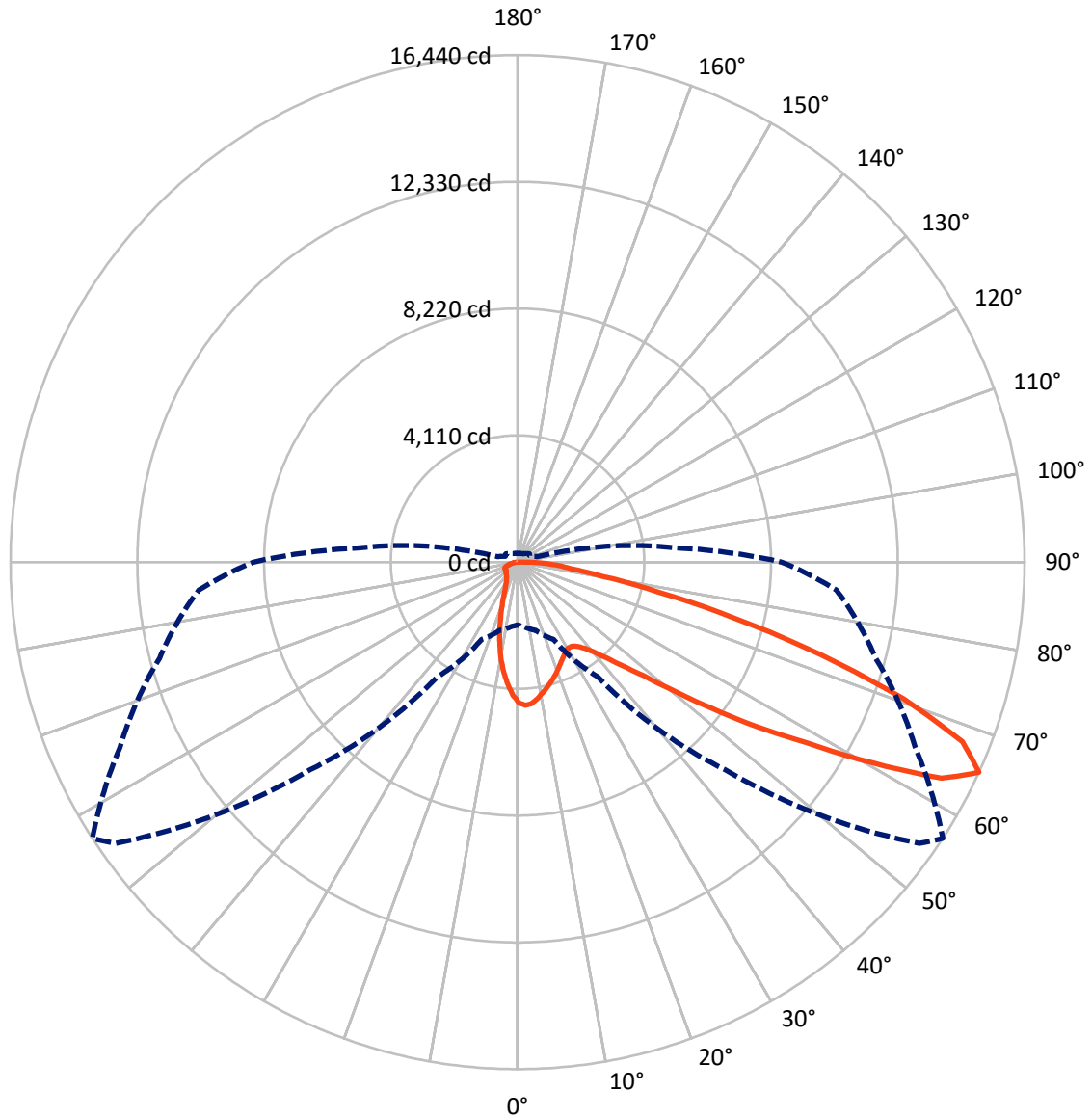
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2540.6	0.0	2540.6
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	14025.8	0.0	14025.8
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	16566.4	0.0	16566.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	381.5	2.3
10°-20°	821.0	5.0
20°-30°	1061.5	6.4
30°-40°	1428.5	8.6
40°-50°	2277.7	13.7
50°-60°	4023.0	24.3
60°-70°	4425.9	26.7
70°-80°	1851.4	11.2
80°-90°	295.9	1.8
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°	16566.4	100.0
0°-180°	16566.4	100.0



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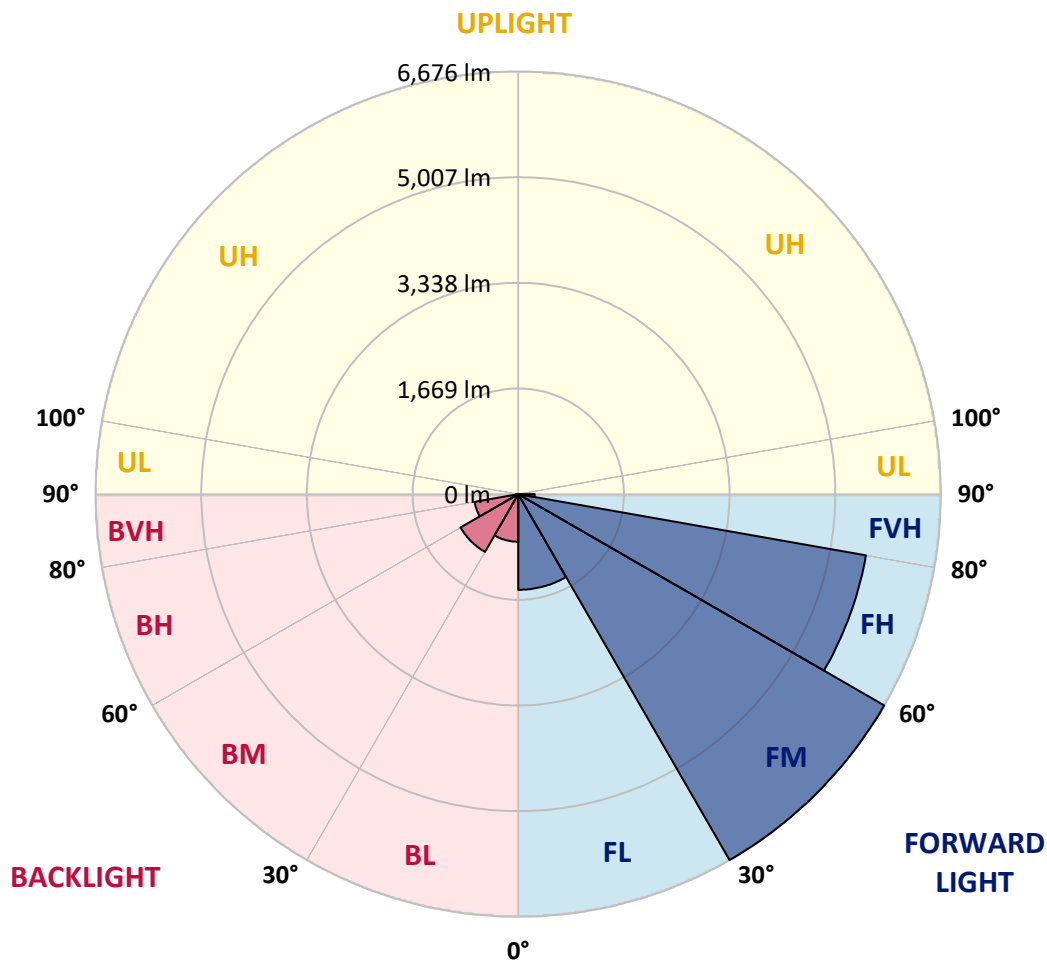
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1511.6	9.1			
FM (30°-60°)	6676.2	40.3			
FH (60°-80°)	5576.7	33.7			G3/7500
FVH (80°-90°)	261.2	1.6			G3/500
BL (0°-30°)	752.4	4.5	B2/1000		
BM (30°-60°)	1053.0	6.4	B2/2500		
BH (60°-80°)	700.5	4.2	B2/1000		G2/1000
BVH (80°-90°)	34.7	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4555.5	4555.5	4555.5	4555.5	4555.5	4555.5	4555.5	4555.5	4555.5	4555.5	4555.5
2.5°	4678.6	4686.0	4686.0	4700.9	4650.6	4674.8	4671.1	4648.7	4656.2	4617.0	4577.9
5°	4546.2	4540.6	4570.4	4574.2	4613.3	4624.5	4633.8	4618.9	4622.6	4536.9	4499.6
7.5°	4207.0	4205.1	4255.4	4298.3	4380.3	4456.7	4507.1	4492.2	4512.7	4458.6	4371.0
10°	3804.4	3847.2	3899.4	3942.3	4093.3	4190.2	4320.7	4333.7	4412.0	4399.0	4240.5
12.5°	3502.4	3521.0	3560.2	3683.2	3821.1	3981.4	4167.8	4184.6	4261.0	4298.3	4160.4
15°	3254.5	3271.3	3321.6	3412.9	3567.6	3757.8	3994.5	4037.3	4190.2	4203.2	4056.0
17.5°	3073.7	3086.7	3120.3	3211.6	3338.4	3582.5	3806.2	3882.6	4083.9	4147.3	3947.9
20°	3002.8	2974.9	2993.5	3051.3	3178.1	3366.3	3655.2	3722.3	3979.6	4104.4	3845.4
22.5°	2971.2	2946.9	2958.1	2954.4	3055.0	3189.2	3493.1	3563.9	3880.8	4054.1	3754.0
25°	2995.4	2995.4	2984.2	2974.9	2986.1	3073.7	3317.9	3427.8	3748.4	4011.3	3660.8
27.5°	3125.9	3075.5	3081.1	3042.0	3030.8	3030.8	3239.6	3304.8	3705.6	3987.0	3584.4
30°	3209.7	3234.0	3235.8	3178.1	3120.3	3015.9	3166.9	3230.3	3670.1	4016.8	3539.7
32.5°	3424.1	3412.9	3381.2	3370.0	3284.3	3166.9	3202.3	3245.2	3649.6	4083.9	3552.7
35°	3638.5	3632.9	3634.7	3629.1	3539.7	3366.3	3297.4	3355.1	3686.9	4201.4	3597.5
37.5°	3860.3	3875.2	3938.6	3938.6	3843.5	3655.2	3563.9	3547.1	3823.0	4393.4	3703.7
40°	4082.1	4119.4	4199.5	4326.3	4192.1	4016.8	3869.6	3843.5	3987.0	4650.6	3959.1
42.5°	4294.6	4356.1	4514.5	4702.8	4658.0	4482.8	4287.1	4257.3	4324.4	5032.7	4315.1
45°	4566.7	4618.9	4868.7	5157.6	5219.1	5064.4	4835.1	4810.9	4807.2	5591.9	4805.3
47.5°	4980.5	5036.4	5286.2	5577.0	5767.1	5791.3	5534.1	5508.0	5418.5	6346.8	5522.9
50°	5498.7	5590.0	5800.7	6139.9	6415.8	6674.9	6602.2	6525.7	6350.5	7224.7	6432.5
52.5°	5877.1	5988.9	6274.1	6708.4	7194.9	7606.8	7867.8	7867.8	7465.2	8188.4	7526.7
55°	5977.7	6044.8	6404.6	7032.7	7865.9	8907.9	9454.0	9413.0	8792.3	9202.4	8799.8
57.5°	5577.0	5664.6	6100.8	6758.7	8218.2	10125.1	11029.1	11038.4	10242.5	10380.4	10056.1
60°	4473.5	4501.5	5015.9	5895.7	7879.0	11105.5	13180.1	13215.5	11892.1	11429.8	10695.4
62.5°	3092.3	3181.8	3569.5	4341.2	6527.6	10995.5	15254.7	15429.9	13213.6	11983.4	10796.1
65°	2035.4	2089.5	2296.4	2766.1	4544.3	9530.4	15899.6	16440.2	14223.9	12015.1	10374.8
67.5°	1476.3	1485.6	1547.1	1789.4	2730.7	6853.8	14798.0	15560.4	14602.3	11750.4	9386.9
70°	1192.9	1200.4	1222.8	1377.5	1763.3	4289.0	12069.2	13264.0	13467.1	10496.0	7560.2
72.5°	969.3	978.6	1006.5	1151.9	1453.9	2385.9	8825.9	10281.6	10954.5	7765.3	5025.2
75°	762.4	769.8	836.9	980.4	1366.3	1638.4	5854.7	7280.6	7372.0	4538.8	2352.3
77.5°	521.9	535.0	617.0	831.3	1286.1	1433.4	3649.6	4663.6	4184.6	1776.4	809.0
80°	331.8	350.4	398.9	630.0	1137.0	1368.1	2270.3	2784.8	1832.3	607.7	389.6
82.5°	195.7	214.4	262.8	408.2	892.8	1269.4	1599.3	1742.8	859.3	311.3	234.9
85°	108.1	121.2	158.4	246.0	523.8	1127.7	1280.5	1250.7	492.1	165.9	147.3
87.5°	35.4	41.0	57.8	98.8	216.2	531.2	768.0	721.4	255.4	76.4	57.8
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°	4555.5	4555.5	4555.5	4555.5	4555.5	4555.5	4555.5	4555.5	4555.5	4555.5	4555.5
2.5°	4551.8	4546.2	4462.3	4399.0	4290.8	4201.4	4166.0	4117.5	4115.6	4080.2	4070.9
5°	4441.8	4384.0	4255.4	4132.4	3940.4	3811.8	3694.4	3612.4	3578.8	3506.1	3489.3
7.5°	4300.2	4223.7	4026.2	3795.0	3569.5	3368.2	3185.5	3002.8	2900.3	2864.9	2825.8
10°	4152.9	4018.7	3726.1	3467.0	3152.0	2842.5	2555.5	2298.3	2158.5	2059.7	2016.8
12.5°	4035.5	3856.5	3483.7	3096.0	2680.4	2266.6	1932.9	1662.7	1504.2	1429.7	1396.1
15°	3903.1	3666.4	3219.1	2728.8	2210.7	1740.9	1414.7	1202.3	1138.9	1103.5	1097.9
17.5°	3763.3	3489.3	2932.0	2367.2	1752.1	1310.4	1099.7	1014.0	986.0	971.1	963.7
20°	3632.9	3330.9	2637.5	1964.6	1371.9	1051.3	952.5	907.8	905.9	913.3	911.5
22.5°	3448.3	3124.0	2346.7	1591.8	1096.0	915.2	851.8	840.6	851.8	861.2	864.9
25°	3344.0	2954.4	2022.4	1263.8	905.9	812.7	792.2	788.5	805.2	816.4	814.6
27.5°	3235.8	2779.2	1720.4	1012.1	794.0	740.0	736.3	740.0	756.8	773.5	771.7
30°	3152.0	2639.4	1437.1	846.2	708.3	687.8	684.1	687.8	697.1	699.0	699.0
32.5°	3083.0	2473.5	1196.7	734.4	656.1	639.3	643.1	641.2	643.1	644.9	646.8
35°	3042.0	2374.7	999.1	665.4	613.2	600.2	598.3	592.7	594.6	596.5	594.6
37.5°	3129.6	2326.2	842.5	617.0	583.4	572.2	568.5	564.8	559.2	559.2	559.2
40°	3261.9	2300.1	747.4	585.3	561.1	548.0	536.8	533.1	533.1	535.0	536.8
42.5°	3524.8	2343.0	682.2	561.1	533.1	518.2	507.0	508.9	514.5	520.0	516.3
45°	3905.0	2473.5	652.4	542.4	516.3	495.8	488.4	486.5	492.1	501.4	508.9
47.5°	4402.7	2676.7	641.2	525.6	505.1	477.2	467.9	473.4	480.9	494.0	488.4
50°	5217.2	3133.3	650.5	510.7	488.4	467.9	456.7	451.1	456.7	466.0	469.7
52.5°	6281.6	3962.8	685.9	503.3	477.2	460.4	441.8	432.4	438.0	445.5	445.5
55°	7554.6	5096.1	784.7	494.0	458.5	449.2	428.7	410.1	413.8	413.8	411.9
57.5°	8676.8	5951.6	902.2	480.9	447.4	434.3	408.2	385.8	382.1	384.0	385.8
60°	9180.0	6179.0	958.1	477.2	447.4	415.7	380.2	357.9	352.3	348.6	348.6
62.5°	9092.4	5785.7	844.4	460.4	458.5	400.8	354.2	329.9	322.5	315.0	316.9
65°	8563.1	5224.7	665.4	438.0	460.4	391.4	328.1	303.8	290.8	281.5	279.6
67.5°	7595.7	4460.5	527.5	421.3	441.8	374.7	305.7	277.7	266.5	257.2	253.5
70°	5942.3	3496.8	458.5	398.9	397.0	333.6	279.6	255.4	238.6	227.4	227.4
72.5°	3852.8	2210.7	393.3	354.2	343.0	279.6	242.3	227.4	214.4	205.0	205.0
75°	1744.7	1027.0	316.9	296.4	279.6	223.7	205.0	197.6	186.4	177.1	177.1
77.5°	626.3	438.0	236.7	233.0	208.8	173.3	165.9	160.3	152.8	143.5	143.5
80°	350.4	277.7	177.1	169.6	145.4	128.6	119.3	119.3	115.6	110.0	108.1
82.5°	221.8	180.8	130.5	113.7	95.1	85.7	82.0	80.2	78.3	70.8	69.0
85°	139.8	123.0	85.7	67.1	55.9	42.9	41.0	39.1	35.4	31.7	31.7
87.5°	63.4	70.8	33.6	20.5	14.9	9.3	5.6	1.9	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)