

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: P480654

Luminaire Tested: **IFLD-S-SA3C-830-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480654
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-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

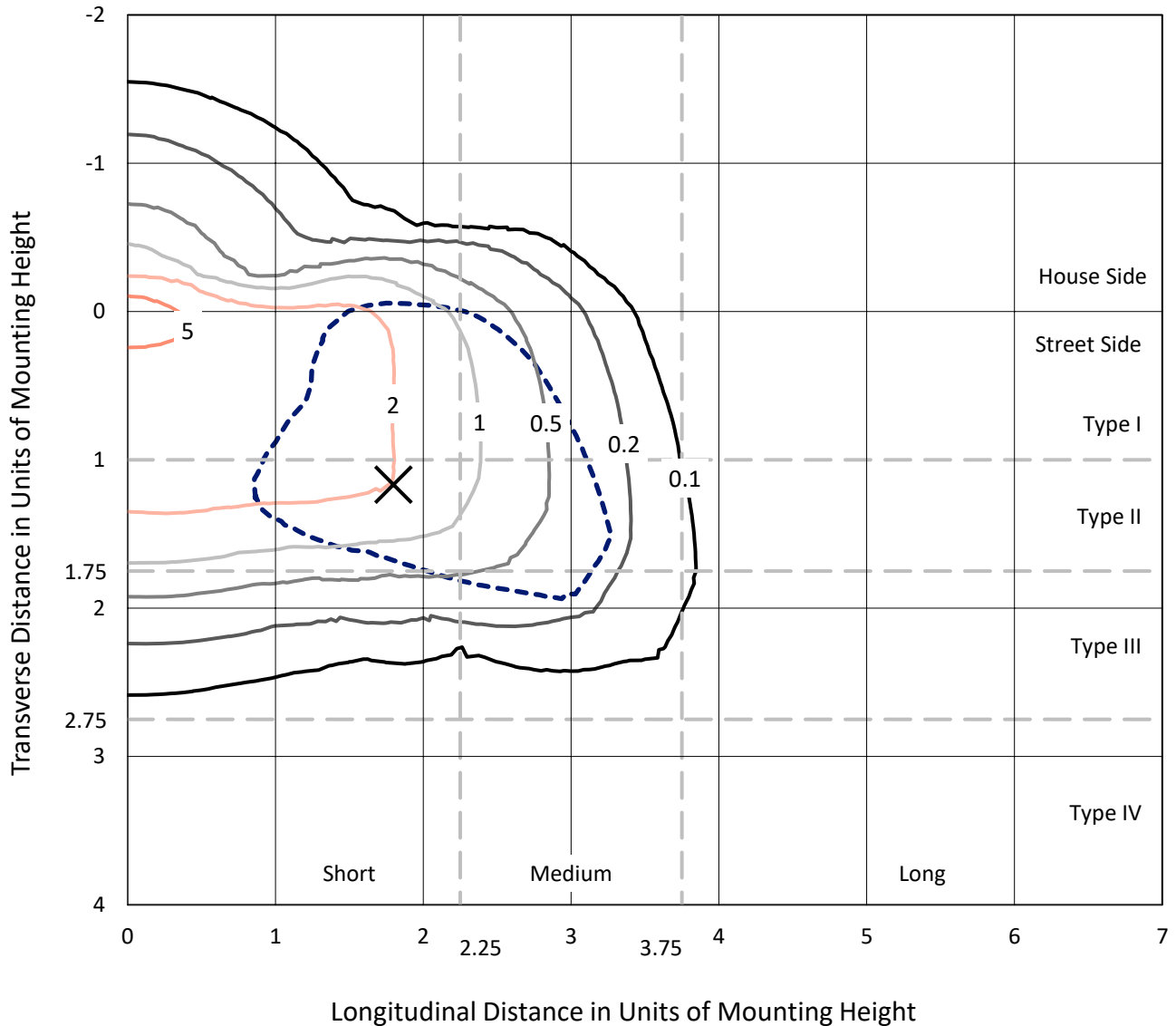
Lumens per Lamp: N/A
Luminaire Lumens: 16607.8 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 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

REPORT NUMBER: P480654
 CATALOG NUMBER: IFLD-S-SA3C-830-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

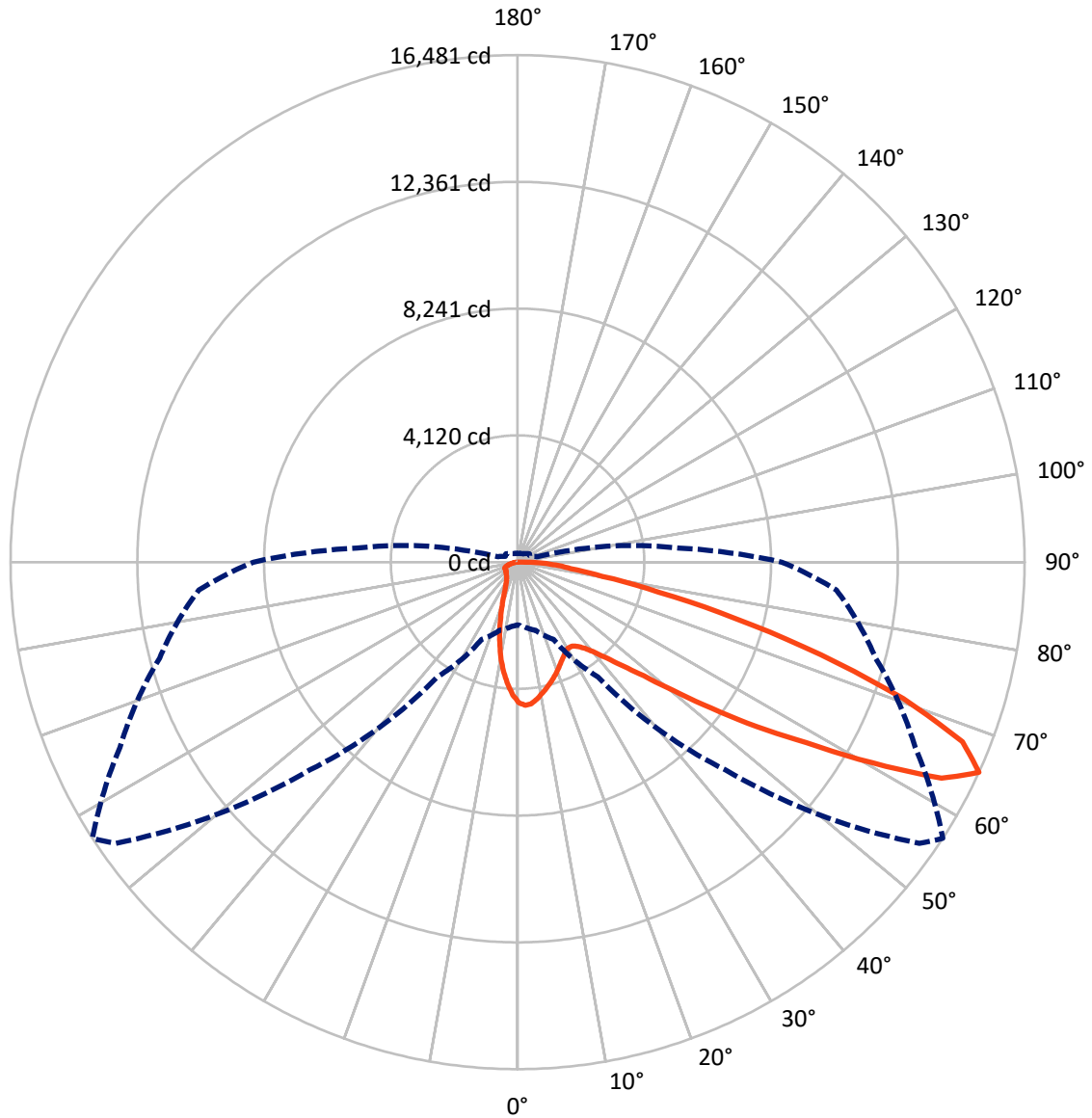
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P480654
CATALOG NUMBER: IFLD-S-SA3C-830-U-SL3

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
House Side	Lumens	2547.0	0.0	2547.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	14060.8	0.0	14060.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	16607.8	0.0	16607.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.4	2.3
10°-20°	823.1	5.0
20°-30°	1064.2	6.4
30°-40°	1432.0	8.6
40°-50°	2283.4	13.7
50°-60°	4033.1	24.3
60°-70°	4436.9	26.7
70°-80°	1856.0	11.2
80°-90°	296.6	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°	16607.8	100.0
0°-180°	16607.8	100.0



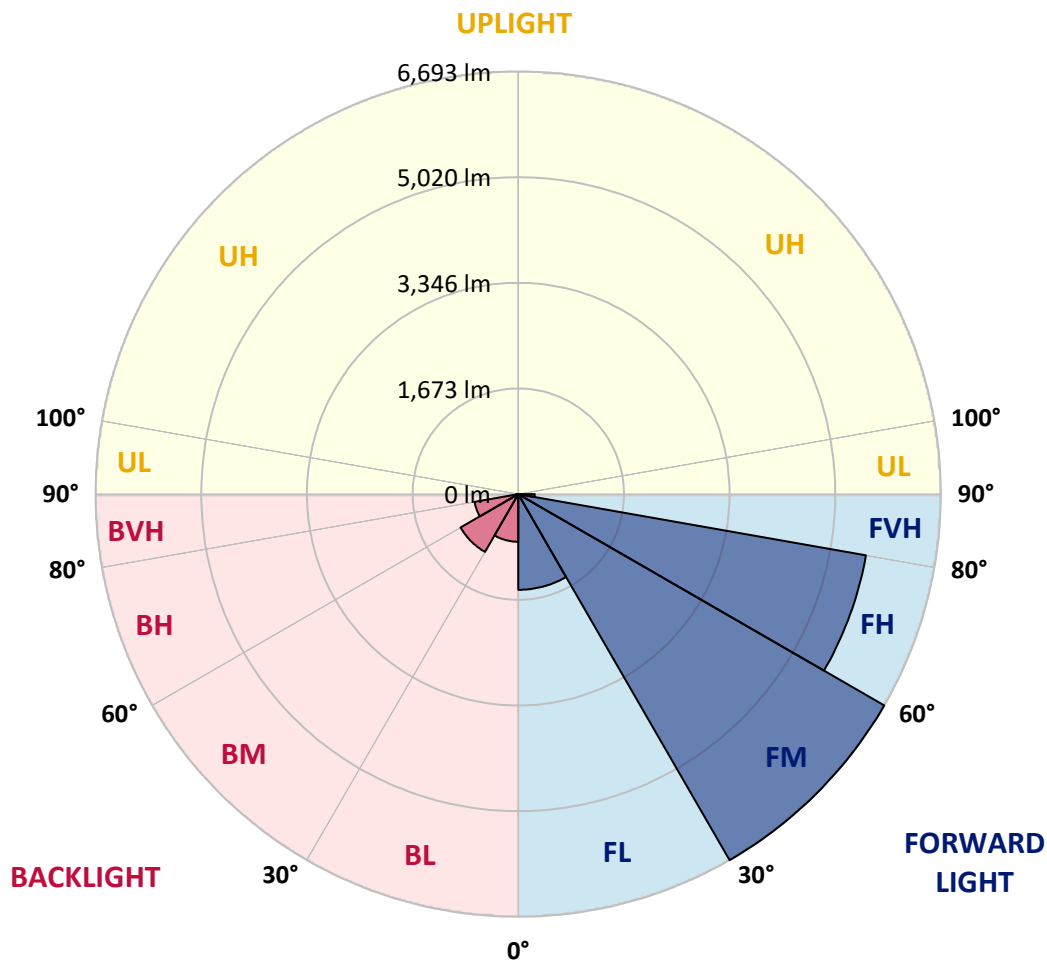
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1515.4	9.1			
FM	(30°-60°)	6692.9	40.3			
FH	(60°-80°)	5590.7	33.7			G3/7500
FVH	(80°-90°)	261.8	1.6			G3/500
BL	(0°-30°)	754.3	4.5	B2/1000		
BM	(30°-60°)	1055.6	6.4	B2/2500		
BH	(60°-80°)	702.3	4.2	B2/1000		G2/1000
BVH	(80°-90°)	34.8	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





REPORT NUMBER: P480654

CATALOG NUMBER: IFLD-S-SA3C-830-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4566.9	4566.9	4566.9	4566.9	4566.9	4566.9	4566.9	4566.9	4566.9	4566.9	4566.9
2.5°	4690.2	4697.7	4697.7	4712.7	4662.2	4686.5	4682.8	4660.3	4667.8	4628.6	4589.3
5°	4557.6	4552.0	4581.9	4585.6	4624.8	4636.0	4645.4	4630.4	4634.2	4548.2	4510.8
7.5°	4217.5	4215.6	4266.1	4309.0	4391.3	4467.9	4518.3	4503.4	4523.9	4469.7	4381.9
10°	3813.9	3856.8	3909.2	3952.1	4103.5	4200.7	4331.5	4344.5	4423.0	4409.9	4251.1
12.5°	3511.1	3529.8	3569.1	3692.4	3830.7	3991.4	4178.2	4195.0	4271.7	4309.0	4170.8
15°	3262.6	3279.4	3329.9	3421.4	3576.5	3767.1	4004.5	4047.4	4200.7	4213.7	4066.1
17.5°	3081.4	3094.4	3128.1	3219.6	3346.7	3591.5	3815.7	3892.3	4094.1	4157.7	3957.7
20°	3010.3	2982.3	3001.0	3058.9	3186.0	3374.7	3664.4	3731.6	3989.5	4114.7	3855.0
22.5°	2978.6	2954.3	2965.5	2961.8	3062.7	3197.2	3501.8	3572.8	3890.5	4064.2	3763.4
25°	3002.9	3002.9	2991.7	2982.3	2993.5	3081.4	3326.1	3436.4	3757.8	4021.3	3670.0
27.5°	3133.7	3083.2	3088.8	3049.6	3038.4	3038.4	3247.7	3313.1	3714.8	3997.0	3593.4
30°	3217.8	3242.1	3243.9	3186.0	3128.1	3023.4	3174.8	3238.3	3679.3	4026.9	3548.5
32.5°	3432.7	3421.4	3389.7	3378.5	3292.5	3174.8	3210.3	3253.3	3658.8	4094.1	3561.6
35°	3647.5	3641.9	3643.8	3638.2	3548.5	3374.7	3305.6	3363.5	3696.1	4211.9	3606.4
37.5°	3869.9	3884.9	3948.4	3948.4	3853.1	3664.4	3572.8	3556.0	3832.5	4404.3	3712.9
40°	4092.3	4129.6	4210.0	4337.1	4202.5	4026.9	3879.3	3853.1	3997.0	4662.2	3968.9
42.5°	4305.3	4367.0	4525.8	4714.5	4669.7	4494.0	4297.8	4267.9	4335.2	5045.3	4325.9
45°	4578.1	4630.4	4880.8	5170.5	5232.1	5077.0	4847.2	4822.9	4819.2	5605.9	4817.3
47.5°	4992.9	5049.0	5299.4	5590.9	5781.5	5805.8	5547.9	5521.8	5432.1	6362.6	5536.7
50°	5512.4	5604.0	5815.1	6155.2	6431.8	6691.5	6618.6	6542.0	6366.4	7242.8	6448.6
52.5°	5891.8	6003.9	6289.8	6725.2	7212.9	7625.8	7887.4	7887.4	7483.8	8208.8	7545.5
55°	5992.7	6059.9	6420.6	7050.3	7885.6	8930.1	9477.6	9436.5	8814.3	9225.4	8821.7
57.5°	5590.9	5678.7	6116.0	6775.6	8238.7	10150.3	11056.6	11066.0	10268.1	10406.3	10081.2
60°	4484.7	4512.7	5028.5	5910.4	7898.7	11133.2	13213.0	13248.5	11921.8	11458.4	10722.1
62.5°	3100.0	3189.7	3578.4	4352.0	6543.9	11023.0	15292.8	15468.4	13246.6	12013.4	10823.0
65°	2040.5	2094.7	2302.1	2773.0	4555.7	9554.2	15939.3	16481.2	14259.4	12045.1	10400.7
67.5°	1479.9	1489.3	1551.0	1793.9	2737.5	6870.9	14835.0	15599.2	14638.8	11779.8	9410.4
70°	1195.9	1203.4	1225.8	1380.9	1767.7	4299.7	12099.3	13297.1	13500.8	10522.2	7579.1
72.5°	971.7	981.0	1009.1	1154.8	1457.5	2391.8	8847.9	10307.3	10981.9	7784.7	5037.8
75°	764.3	771.7	839.0	982.9	1369.7	1642.5	5869.3	7298.8	7390.4	4550.1	2358.2
77.5°	523.2	536.3	618.5	833.4	1289.3	1437.0	3658.8	4675.3	4195.0	1780.8	811.0
80°	332.6	351.3	399.9	631.6	1139.9	1371.6	2276.0	2791.7	1836.9	609.2	390.5
82.5°	196.2	214.9	263.5	409.2	895.1	1272.5	1603.3	1747.2	861.4	312.1	235.4
85°	108.4	121.5	158.8	246.7	525.1	1130.5	1283.7	1253.8	493.3	166.3	147.6
87.5°	35.5	41.1	57.9	99.0	216.8	532.6	769.9	723.2	256.0	76.6	57.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P480654
 CATALOG NUMBER: IFLD-S-SA3C-830-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4566.9	4566.9	4566.9	4566.9	4566.9	4566.9	4566.9	4566.9	4566.9	4566.9	4566.9
2.5°	4563.2	4557.6	4473.5	4409.9	4301.6	4211.9	4176.4	4127.8	4125.9	4090.4	4081.1
5°	4452.9	4395.0	4266.1	4142.7	3950.3	3821.3	3703.6	3621.4	3587.7	3514.9	3498.1
7.5°	4310.9	4234.3	4036.2	3804.5	3578.4	3376.6	3193.5	3010.3	2907.6	2872.1	2832.8
10°	4163.3	4028.7	3735.4	3475.6	3159.8	2849.6	2561.9	2304.0	2163.9	2064.8	2021.8
12.5°	4045.6	3866.2	3492.4	3103.8	2687.1	2272.2	1937.8	1666.8	1508.0	1433.2	1399.6
15°	3912.9	3675.6	3227.1	2735.7	2216.2	1745.3	1418.3	1205.3	1141.7	1106.2	1100.6
17.5°	3772.7	3498.1	2939.3	2373.1	1756.5	1313.6	1102.5	1016.5	988.5	973.6	966.1
20°	3641.9	3339.2	2644.1	1969.5	1375.3	1053.9	954.9	910.0	908.1	915.6	913.8
22.5°	3456.9	3131.8	2352.6	1595.8	1098.7	917.5	854.0	842.7	854.0	863.3	867.0
25°	3352.3	2961.8	2027.5	1266.9	908.1	814.7	794.2	790.4	807.2	818.5	816.6
27.5°	3243.9	2786.1	1724.7	1014.7	796.0	741.8	738.1	741.8	758.7	775.5	773.6
30°	3159.8	2646.0	1440.7	848.4	710.1	689.5	685.8	689.5	698.9	700.7	700.7
32.5°	3090.7	2479.7	1199.7	736.2	657.8	640.9	644.7	642.8	644.7	646.5	648.4
35°	3049.6	2380.6	1001.6	667.1	614.8	601.7	599.8	594.2	596.1	598.0	596.1
37.5°	3137.4	2332.0	844.6	618.5	584.9	573.7	569.9	566.2	560.6	560.6	560.6
40°	3270.1	2305.9	749.3	586.7	562.5	549.4	538.2	534.4	534.4	536.3	538.2
42.5°	3533.6	2348.9	683.9	562.5	534.4	519.5	508.3	510.1	515.7	521.3	517.6
45°	3914.8	2479.7	654.0	543.8	517.6	497.1	489.6	487.7	493.3	502.7	510.1
47.5°	4413.7	2683.3	642.8	527.0	506.4	478.4	469.0	474.6	482.1	495.2	489.6
50°	5230.3	3141.1	652.1	512.0	489.6	469.0	457.8	452.2	457.8	467.2	470.9
52.5°	6297.2	3972.7	687.7	504.5	478.4	461.5	442.9	433.5	439.1	446.6	446.6
55°	7573.5	5108.8	786.7	495.2	459.7	450.3	429.8	411.1	414.8	414.8	413.0
57.5°	8698.4	5966.5	904.4	482.1	448.5	435.4	409.2	386.8	383.1	384.9	386.8
60°	9202.9	6194.5	960.5	478.4	448.5	416.7	381.2	358.8	353.2	349.4	349.4
62.5°	9115.1	5800.2	846.5	461.5	459.7	401.8	355.0	330.7	323.3	315.8	317.7
65°	8584.4	5237.7	667.1	439.1	461.5	392.4	328.9	304.6	291.5	282.2	280.3
67.5°	7614.6	4471.6	528.8	422.3	442.9	375.6	306.5	278.4	267.2	257.9	254.1
70°	5957.2	3505.5	459.7	399.9	398.0	334.5	280.3	256.0	239.2	228.0	228.0
72.5°	3862.4	2216.2	394.3	355.0	343.8	280.3	242.9	228.0	214.9	205.5	205.5
75°	1749.0	1029.6	317.7	297.1	280.3	224.2	205.5	198.1	186.9	177.5	177.5
77.5°	627.9	439.1	237.3	233.6	209.3	173.8	166.3	160.7	153.2	143.9	143.9
80°	351.3	278.4	177.5	170.0	145.8	128.9	119.6	119.6	115.9	110.2	108.4
82.5°	222.4	181.3	130.8	114.0	95.3	86.0	82.2	80.4	78.5	71.0	69.1
85°	140.1	123.3	86.0	67.3	56.1	43.0	41.1	39.2	35.5	31.8	31.8
87.5°	63.5	71.0	33.6	20.6	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)