

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: P480655

Luminaire Tested: **IFLD-S-SA3D-830-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480655
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-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

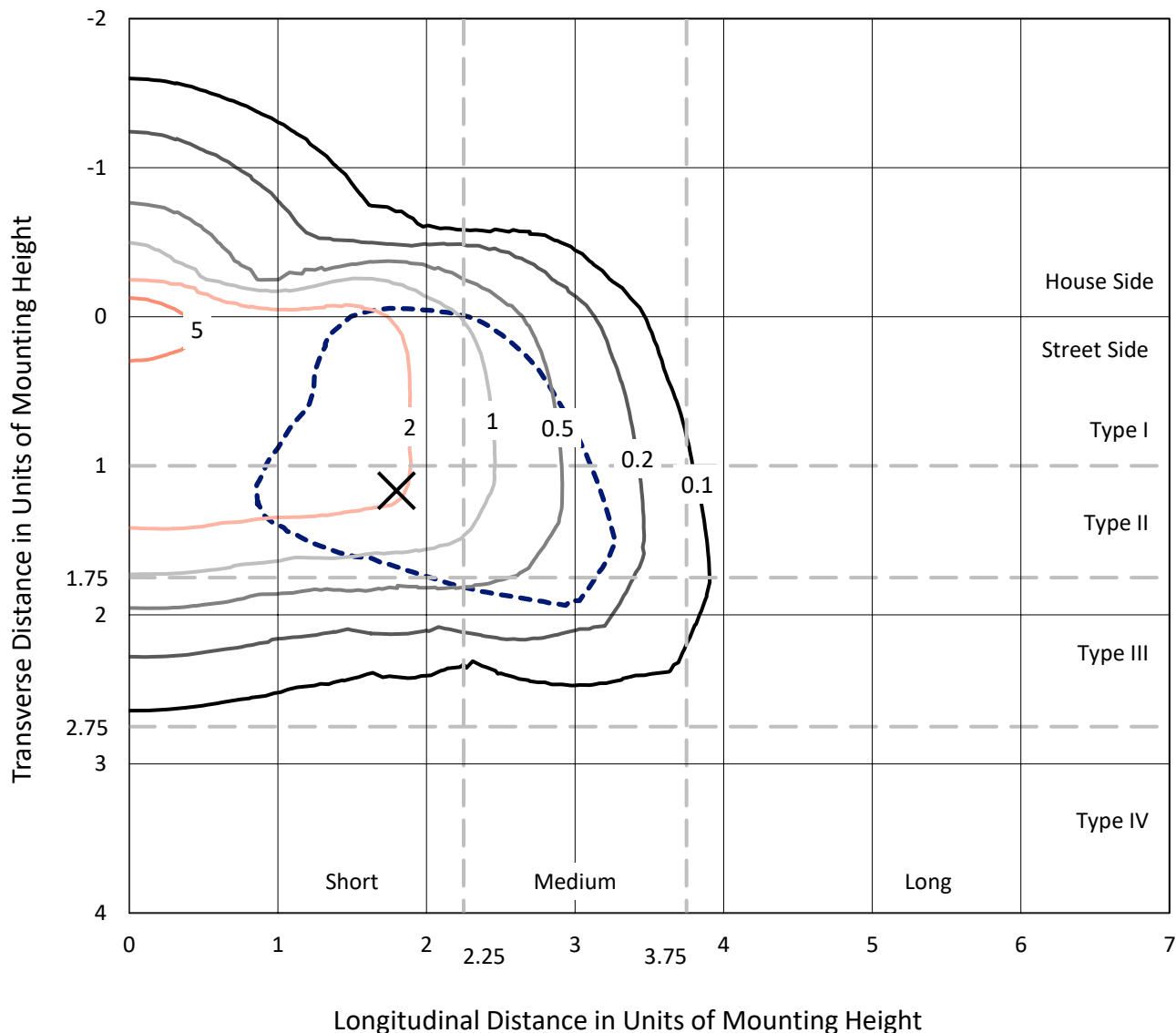
Lumens per Lamp: N/A
Luminaire Lumens: 18273.9 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 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

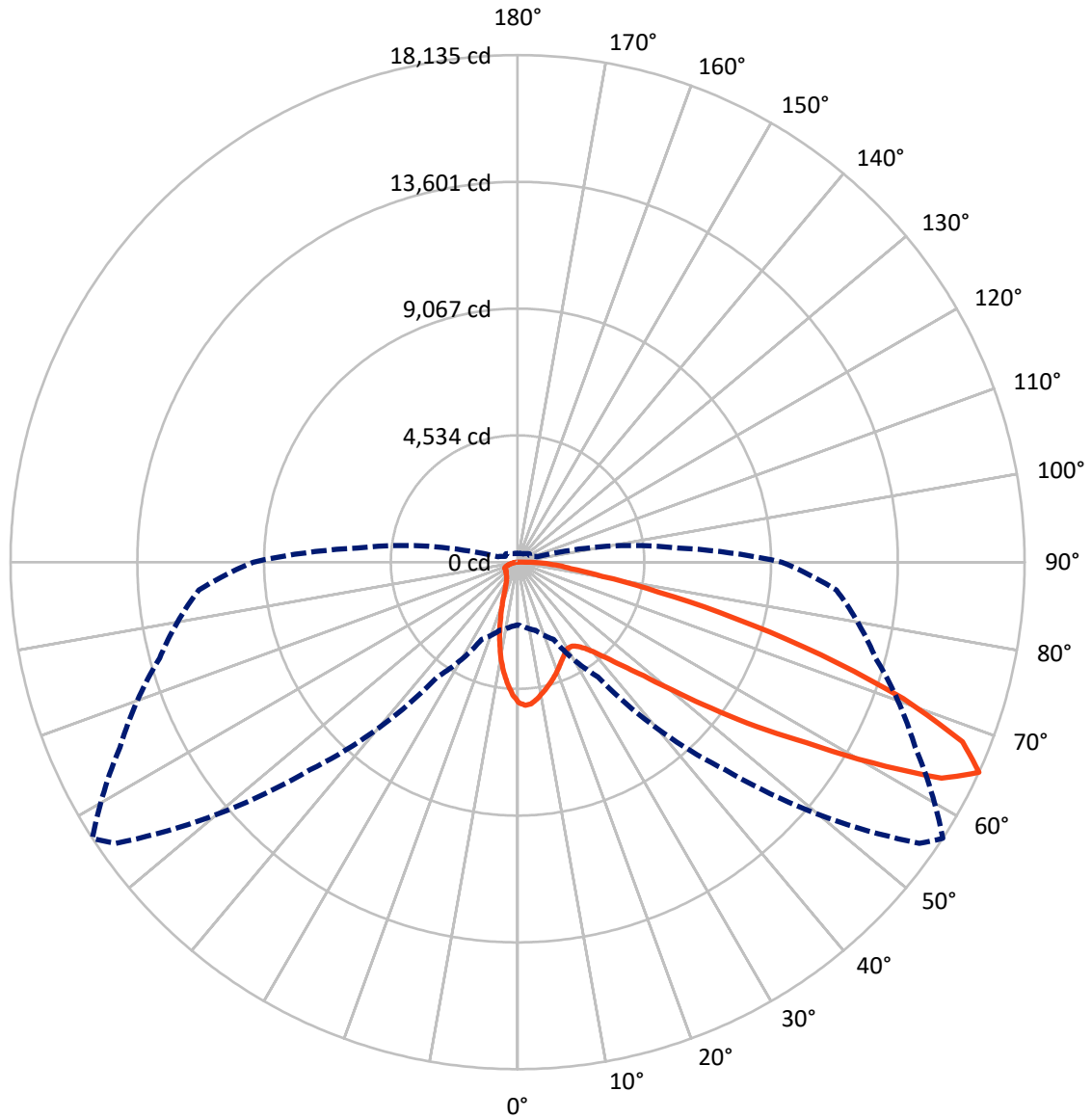
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 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
House Side	Lumens	2802.5	0.0	2802.5
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	15471.4	0.0	15471.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	18273.9	0.0	18273.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.8	2.3
10°-20°	905.7	5.0
20°-30°	1170.9	6.4
30°-40°	1575.7	8.6
40°-50°	2512.5	13.7
50°-60°	4437.7	24.3
60°-70°	4882.0	26.7
70°-80°	2042.2	11.2
80°-90°	326.4	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°	18273.9	100.0
0°-180°	18273.9	100.0

Coefficient of Utilization



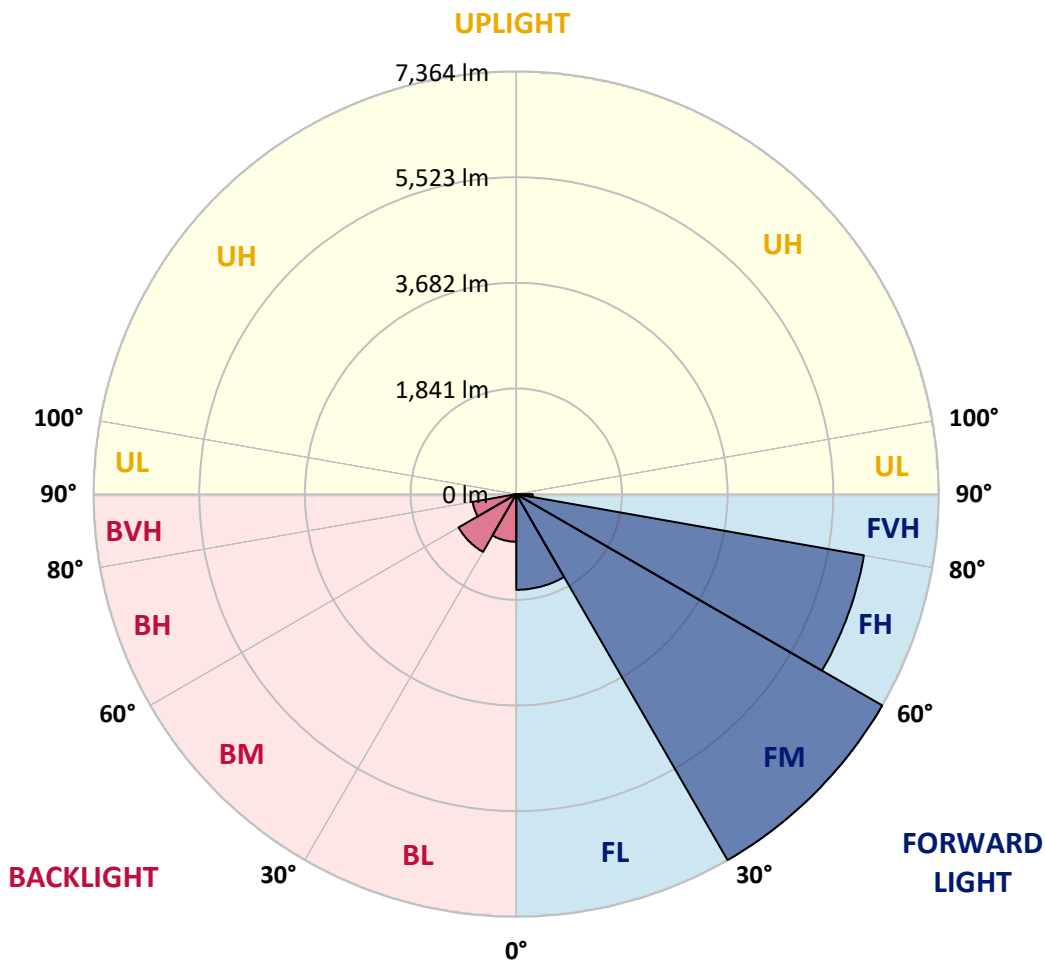
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1667.4	9.1			
FM (30°-60°)	7364.4	40.3			
FH (60°-80°)	6151.5	33.7			G3/7500
FVH (80°-90°)	288.1	1.6			G3/500
BL (0°-30°)	830.0	4.5	B2/1000		
BM (30°-60°)	1161.5	6.4	B2/2500		
BH (60°-80°)	772.7	4.2	B2/1000		G2/1000
BVH (80°-90°)	38.3	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°	5025.1	5025.1	5025.1	5025.1	5025.1	5025.1	5025.1	5025.1	5025.1	5025.1	5025.1
2.5°	5160.8	5169.0	5169.0	5185.4	5129.9	5156.7	5152.5	5127.9	5136.1	5092.9	5049.7
5°	5014.8	5008.6	5041.5	5045.6	5088.8	5101.1	5111.4	5095.0	5099.1	5004.5	4963.4
7.5°	4640.6	4638.5	4694.0	4741.3	4831.8	4916.1	4971.6	4955.2	4977.8	4918.2	4821.5
10°	4196.5	4243.8	4301.3	4348.6	4515.2	4622.1	4766.0	4780.4	4866.7	4852.4	4677.6
12.5°	3863.4	3883.9	3927.1	4062.8	4215.0	4391.8	4597.4	4615.9	4700.2	4741.3	4589.2
15°	3589.9	3608.4	3663.9	3764.7	3935.3	4145.1	4406.2	4453.5	4622.1	4636.5	4474.0
17.5°	3390.5	3404.9	3441.9	3542.6	3682.4	3951.8	4198.5	4282.8	4504.9	4574.8	4354.8
20°	3312.4	3281.5	3302.1	3365.8	3505.6	3713.3	4032.0	4106.0	4389.7	4527.5	4241.7
22.5°	3277.4	3250.7	3263.0	3258.9	3369.9	3518.0	3853.1	3931.2	4280.8	4472.0	4141.0
25°	3304.1	3304.1	3291.8	3281.5	3293.8	3390.5	3659.8	3781.1	4134.8	4424.7	4038.1
27.5°	3448.1	3392.5	3398.7	3355.5	3343.2	3343.2	3573.5	3645.4	4087.5	4398.0	3953.8
30°	3540.6	3567.3	3569.4	3505.6	3441.9	3326.7	3493.3	3563.2	4048.4	4430.9	3904.5
32.5°	3777.0	3764.7	3729.7	3717.4	3622.8	3493.3	3532.4	3579.6	4025.8	4504.9	3918.9
35°	4013.5	4007.3	4009.4	4003.2	3904.5	3713.3	3637.2	3701.0	4066.9	4634.4	3968.2
37.5°	4258.1	4274.6	4344.5	4344.5	4239.6	4032.0	3931.2	3912.7	4217.0	4846.2	4085.4
40°	4502.8	4543.9	4632.4	4772.2	4624.1	4430.9	4268.4	4239.6	4398.0	5129.9	4367.1
42.5°	4737.2	4805.1	4979.8	5187.5	5138.2	4944.9	4729.0	4696.1	4770.1	5551.4	4759.8
45°	5037.4	5095.0	5370.5	5689.2	5757.0	5586.4	5333.5	5306.8	5302.6	6168.3	5300.6
47.5°	5493.9	5555.5	5831.1	6151.8	6361.5	6388.3	6104.5	6075.7	5977.0	7001.0	6092.2
50°	6065.4	6166.2	6398.5	6772.7	7077.0	7362.8	7282.6	7198.3	7005.1	7969.4	7095.5
52.5°	6482.8	6606.2	6920.8	7399.8	7936.5	8390.9	8678.7	8678.7	8234.6	9032.4	8302.5
55°	6593.9	6667.9	7064.7	7757.6	8676.7	9826.0	10428.5	10383.2	9698.5	10150.9	9706.8
57.5°	6151.8	6248.4	6729.6	7455.4	9065.3	11168.6	12165.8	12176.1	11298.2	11450.3	11092.6
60°	4934.6	4965.4	5532.9	6503.4	8691.1	12250.1	14538.6	14577.6	13117.8	12607.9	11797.8
62.5°	3411.0	3509.7	3937.4	4788.6	7200.4	12128.8	16827.0	17020.3	14575.6	13218.6	11908.8
65°	2245.2	2304.9	2533.1	3051.2	5012.7	10512.8	17538.4	18134.7	15690.0	13253.5	11444.2
67.5°	1628.4	1638.7	1706.5	1973.8	3012.2	7560.2	16323.2	17164.2	16107.4	12961.6	10354.4
70°	1315.9	1324.1	1348.8	1519.4	1945.1	4731.0	13313.1	14631.1	14855.2	11577.8	8339.5
72.5°	1069.2	1079.4	1110.3	1270.7	1603.7	2631.8	9735.6	11341.4	12083.6	8565.6	5543.2
75°	840.9	849.2	923.2	1081.5	1507.1	1807.3	6458.2	8031.1	8131.8	5006.6	2594.8
77.5°	575.7	590.1	680.6	917.0	1418.7	1581.1	4025.8	5144.3	4615.9	1959.4	892.3
80°	366.0	386.5	440.0	695.0	1254.2	1509.2	2504.3	3071.8	2021.1	670.3	429.7
82.5°	215.9	236.4	289.9	450.3	984.9	1400.2	1764.1	1922.4	947.9	343.4	259.1
85°	119.3	133.6	174.8	271.4	577.8	1243.9	1412.5	1379.6	542.8	183.0	162.4
87.5°	39.1	45.2	63.7	109.0	238.5	586.0	847.1	795.7	281.7	84.3	63.7
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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CATALOG NUMBER: IFLD-S-SA3D-830-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5025.1	5025.1	5025.1	5025.1	5025.1	5025.1	5025.1	5025.1	5025.1	5025.1	5025.1
2.5°	5021.0	5014.8	4922.3	4852.4	4733.1	4634.4	4595.3	4541.9	4539.8	4500.8	4490.5
5°	4899.6	4835.9	4694.0	4558.3	4346.6	4204.7	4075.2	3984.7	3947.7	3867.5	3849.0
7.5°	4743.4	4659.1	4441.1	4186.2	3937.4	3715.3	3513.8	3312.4	3199.3	3160.2	3117.0
10°	4581.0	4432.9	4110.1	3824.3	3476.8	3135.5	2818.9	2535.2	2380.9	2272.0	2224.7
12.5°	4451.4	4254.0	3842.8	3415.2	2956.6	2500.2	2132.2	1834.0	1659.3	1577.0	1540.0
15°	4305.4	4044.3	3550.9	3010.1	2438.5	1920.4	1560.6	1326.2	1256.3	1217.2	1211.0
17.5°	4151.2	3849.0	3234.2	2611.2	1932.7	1445.4	1213.1	1118.5	1087.7	1071.2	1063.0
20°	4007.3	3674.2	2909.4	2167.1	1513.3	1159.6	1050.7	1001.3	999.3	1007.5	1005.4
22.5°	3803.8	3446.0	2588.6	1755.9	1209.0	1009.5	939.6	927.3	939.6	949.9	954.0
25°	3688.6	3258.9	2230.9	1394.0	999.3	896.5	873.8	869.7	888.2	900.6	898.5
27.5°	3569.4	3065.6	1897.8	1116.5	875.9	816.3	812.2	816.3	834.8	853.3	851.2
30°	3476.8	2911.4	1585.2	933.5	781.3	758.7	754.6	758.7	769.0	771.0	771.0
32.5°	3400.8	2728.4	1320.0	810.1	723.7	705.2	709.3	707.3	709.3	711.4	713.5
35°	3355.5	2619.5	1102.1	734.0	676.5	662.1	660.0	653.8	655.9	657.9	655.9
37.5°	3452.2	2566.0	929.3	680.6	643.6	631.2	627.1	623.0	616.8	616.8	616.8
40°	3598.1	2537.2	824.5	645.6	618.9	604.5	592.2	588.0	588.0	590.1	592.2
42.5°	3888.1	2584.5	752.5	618.9	588.0	571.6	559.3	561.3	567.5	573.6	569.5
45°	4307.5	2728.4	719.6	598.3	569.5	546.9	538.7	536.6	542.8	553.1	561.3
47.5°	4856.5	2952.5	707.3	579.8	557.2	526.4	516.1	522.2	530.5	544.9	538.7
50°	5755.0	3456.3	717.6	563.4	538.7	516.1	503.7	497.6	503.7	514.0	518.1
52.5°	6929.0	4371.2	756.6	555.1	526.4	507.9	487.3	477.0	483.2	491.4	491.4
55°	8333.3	5621.3	865.6	544.9	505.8	495.5	472.9	452.3	456.5	456.5	454.4
57.5°	9571.1	6565.1	995.1	530.5	493.5	479.1	450.3	425.6	421.5	423.6	425.6
60°	10126.2	6815.9	1056.8	526.4	493.5	458.5	419.4	394.8	388.6	384.5	384.5
62.5°	10029.6	6382.1	931.4	507.9	505.8	442.1	390.7	363.9	355.7	347.5	349.5
65°	9445.6	5763.2	734.0	483.2	507.9	431.8	361.9	335.1	320.7	310.5	308.4
67.5°	8378.5	4920.2	581.9	464.7	487.3	413.3	337.2	306.4	294.0	283.7	279.6
70°	6554.8	3857.2	505.8	440.0	437.9	368.0	308.4	281.7	263.2	250.8	250.8
72.5°	4249.9	2438.5	433.8	390.7	378.3	308.4	267.3	250.8	236.4	226.2	226.2
75°	1924.5	1132.9	349.5	326.9	308.4	246.7	226.2	217.9	205.6	195.3	195.3
77.5°	690.8	483.2	261.1	257.0	230.3	191.2	183.0	176.8	168.6	158.3	158.3
80°	386.5	306.4	195.3	187.1	160.4	141.9	131.6	131.6	127.5	121.3	119.3
82.5°	244.7	199.4	143.9	125.4	104.9	94.6	90.5	88.4	86.4	78.1	76.1
85°	154.2	135.7	94.6	74.0	61.7	47.3	45.2	43.2	39.1	35.0	35.0
87.5°	69.9	78.1	37.0	22.6	16.4	10.3	6.2	2.1	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)