

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: P480031

Luminaire Tested: **IFLD-S-SA3D-730-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480031  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-730-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (48) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

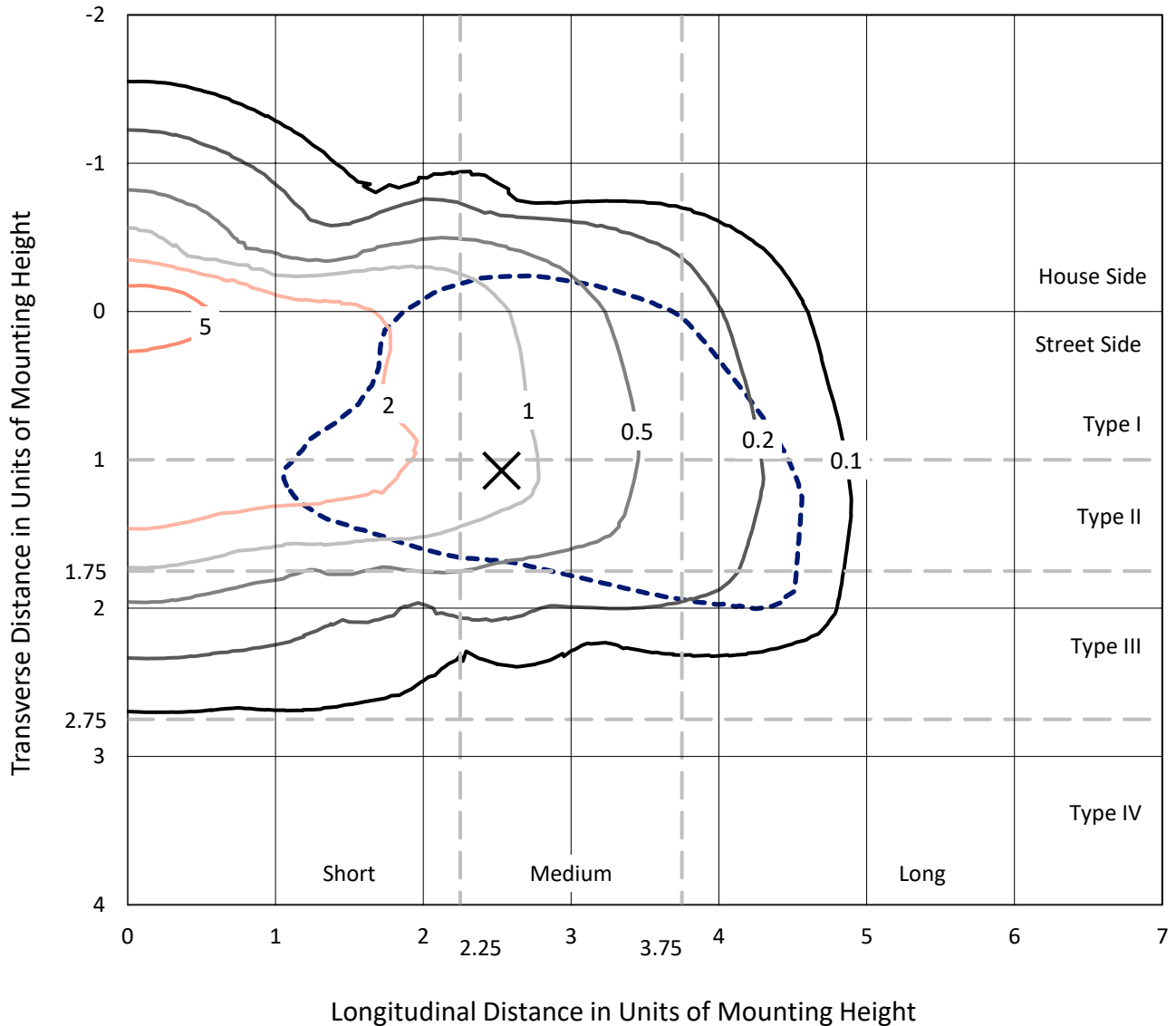
Lumens per Lamp: N/A  
Luminaire Lumens: 21160.9 lumens  
Efficiency: N/A  
Efficacy: 114.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

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

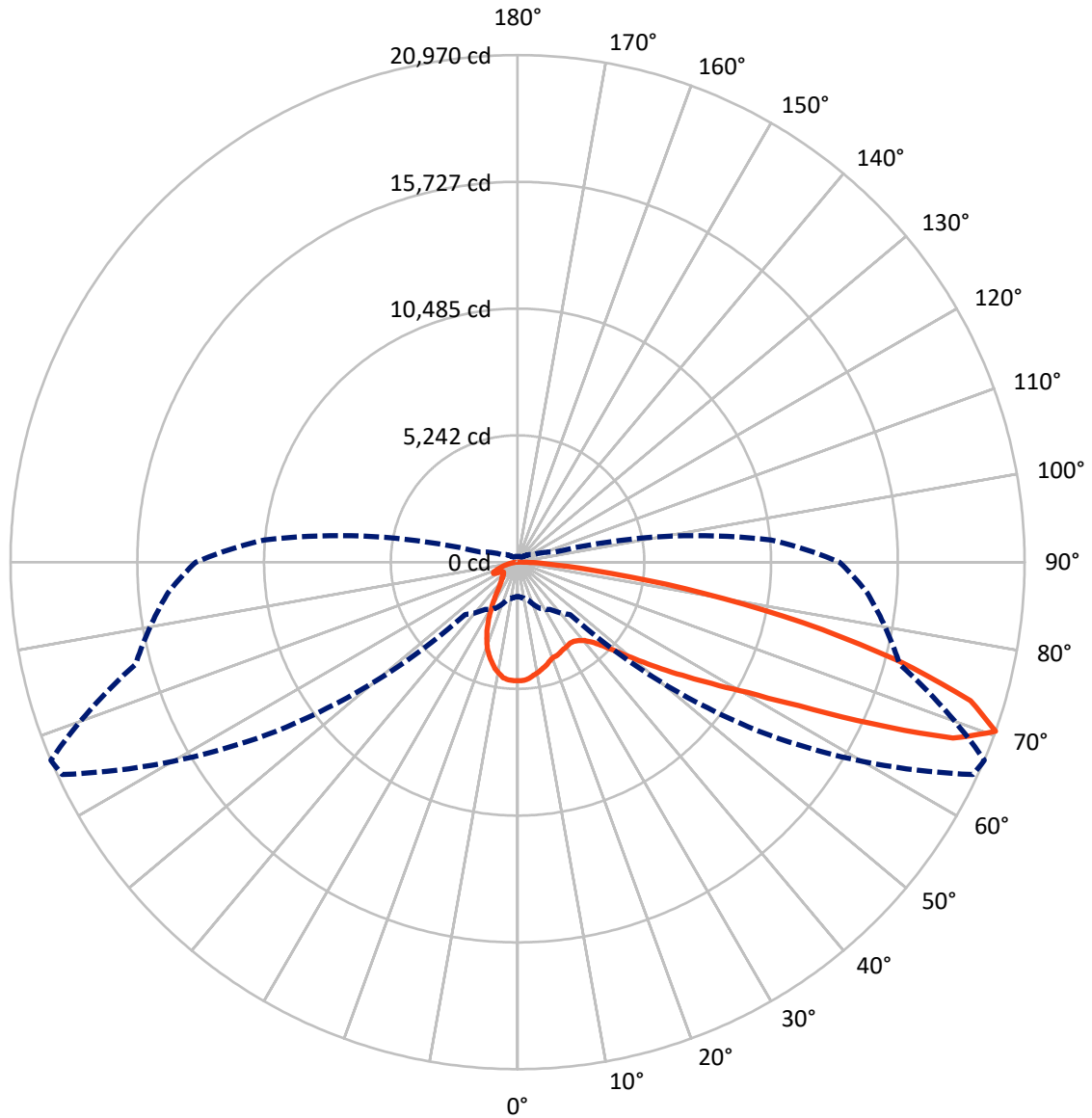
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4121.3	0.0	4121.3
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	17039.6	0.0	17039.6
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	21160.9	0.0	21160.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	427.4	2.0
10°-20°	1023.7	4.8
20°-30°	1382.4	6.5
30°-40°	1849.7	8.7
40°-50°	2720.0	12.9
50°-60°	4239.8	20.0
60°-70°	5222.7	24.7
70°-80°	3690.3	17.4
80°-90°	604.9	2.9
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°	21160.9	100.0
0°-180°	21160.9	100.0

**Coefficient of Utilization**

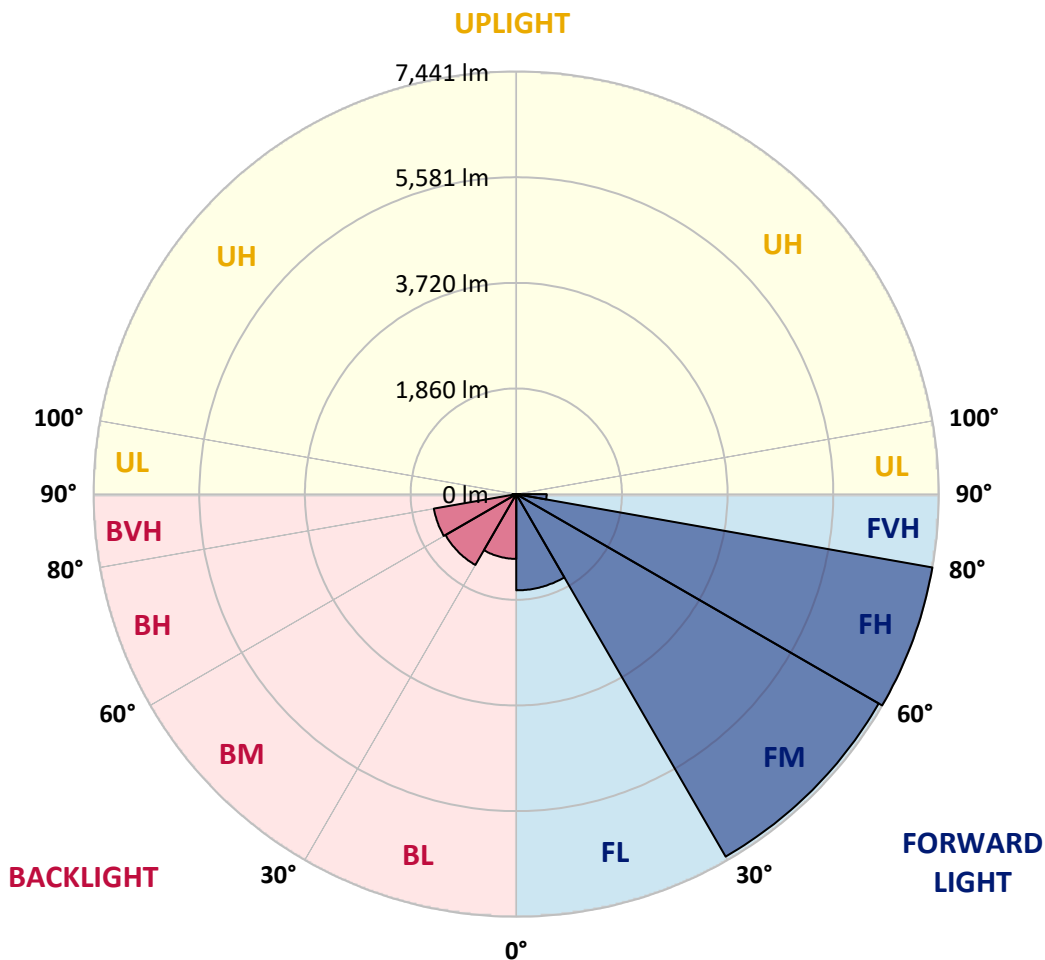


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1693.8	8.0			
FM (30°-60°)	7369.9	34.8			
FH (60°-80°)	7440.9	35.2			G3/7500
FVH (80°-90°)	535.1	2.5			G4/750
BL (0°-30°)	1139.7	5.4	B3/2500		
BM (30°-60°)	1439.7	6.8	B2/2500		
BH (60°-80°)	1472.2	7.0	B3/2500		G3/2500
BVH (80°-90°)	69.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	4898.7	4898.7	4898.7	4898.7	4898.7	4898.7	4898.7	4898.7	4898.7	4898.7	4898.7
2.5°	4561.3	4612.9	4631.6	4659.7	4732.4	4786.2	4819.0	4856.5	4901.0	4938.5	4961.9
5°	4242.7	4270.8	4315.3	4345.8	4437.2	4582.4	4680.8	4840.1	4835.4	4894.0	4983.0
7.5°	3933.5	3961.6	3982.7	4043.6	4174.8	4306.0	4486.4	4744.1	4725.3	4861.2	4999.4
10°	3741.4	3720.3	3727.3	3830.4	3933.5	4081.1	4308.3	4570.7	4638.6	4849.5	5046.3
12.5°	3561.0	3537.5	3593.8	3659.4	3785.9	3919.4	4191.2	4427.8	4530.9	4807.3	5067.4
15°	3448.5	3432.1	3502.4	3530.5	3680.5	3839.8	4031.9	4320.0	4432.5	4755.8	5034.6
17.5°	3385.3	3399.3	3425.1	3486.0	3582.1	3717.9	3928.8	4247.4	4296.6	4692.5	5027.5
20°	3397.0	3413.4	3415.7	3441.5	3507.1	3612.5	3828.1	4170.1	4202.9	4680.8	5046.3
22.5°	3490.7	3467.3	3476.6	3460.2	3479.0	3561.0	3750.7	4067.0	4193.5	4582.4	5006.5
25°	3631.3	3598.5	3593.8	3537.5	3502.4	3525.8	3736.7	4041.2	4123.2	4552.0	5004.1
27.5°	3879.6	3830.4	3830.4	3746.1	3603.1	3565.7	3696.9	3999.1	4071.7	4523.8	4950.2
30°	4118.6	4118.6	4120.9	4001.4	3842.1	3657.0	3713.3	3982.7	4029.5	4439.5	4877.6
32.5°	4409.1	4402.0	4390.3	4331.7	4085.8	3809.3	3792.9	3961.6	3985.0	4411.4	4856.5
35°	4692.5	4673.8	4765.1	4713.6	4462.9	4106.8	3874.9	3971.0	4022.5	4369.2	4790.9
37.5°	4905.7	4917.4	5107.2	5140.0	4924.5	4444.2	4106.8	4064.7	4113.9	4430.1	4790.9
40°	5182.2	5229.0	5407.1	5517.2	5386.0	4889.3	4474.6	4221.6	4256.8	4566.0	4894.0
42.5°	5545.3	5585.1	5812.4	5955.3	5917.8	5456.3	4837.8	4549.6	4521.5	4793.3	5048.6
45°	6025.5	6032.6	6262.2	6459.0	6536.3	6049.0	5414.1	4964.3	4940.9	5184.5	5332.1
47.5°	6597.2	6590.2	6733.1	6943.9	7152.4	6756.5	6077.1	5594.5	5510.1	5744.4	5803.0
50°	7150.1	7119.6	7152.4	7421.8	7822.4	7642.0	6883.0	6365.2	6280.9	6409.8	6510.5
52.5°	7454.6	7492.1	7403.1	7759.2	8534.6	8689.3	7951.3	7285.9	7213.3	7276.6	7452.3
55°	7241.4	7318.7	7260.2	7597.5	8846.2	9966.1	9333.5	8351.9	8258.2	8234.8	8522.9
57.5°	6334.8	6475.4	6487.1	7021.2	8738.5	10954.7	11278.0	9610.0	9469.4	9230.4	9528.0
60°	4863.5	5004.1	5111.9	5744.4	7815.4	11545.1	13531.7	11399.8	10935.9	10317.5	10495.5
62.5°	3408.7	3504.8	3612.5	4001.4	6025.5	11198.3	15480.9	13920.6	13065.5	11463.1	11685.6
65°	2483.3	2558.3	2668.4	2898.0	3701.5	9265.6	16385.2	16914.6	16104.0	12920.3	12892.1
67.5°	1869.5	1916.4	2061.6	2429.4	2565.3	5723.3	15448.1	20077.4	19421.4	14539.1	13862.0
70°	1415.0	1454.8	1590.7	2094.4	2396.6	3069.0	12187.0	20782.5	20969.9	16354.7	14513.3
72.5°	974.6	1019.1	1171.4	1745.3	2281.8	2434.1	7649.1	18880.2	19590.1	17102.1	13815.2
75°	597.4	627.9	716.9	1323.7	2265.4	2380.2	4209.9	15471.5	16223.5	15801.8	12086.2
77.5°	421.7	419.4	435.8	775.4	1963.2	2394.3	2595.8	11336.6	12067.5	11645.8	8202.0
80°	306.9	309.2	325.6	463.9	1333.0	2434.1	2045.2	7592.8	7810.7	6072.4	3235.3
82.5°	185.1	194.4	234.3	313.9	801.2	2197.5	1890.6	4219.3	3947.5	1949.2	890.2
85°	98.4	98.4	138.2	199.1	426.4	1639.9	1820.3	2007.7	1682.1	604.4	330.3
87.5°	23.4	23.4	39.8	79.7	171.0	784.8	1241.7	798.9	639.6	203.8	135.9
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°	4898.7	4898.7	4898.7	4898.7	4898.7	4898.7	4898.7	4898.7	4898.7	4898.7	4898.7
2.5°	4952.6	4924.5	4959.6	4889.3	4833.1	4835.4	4748.8	4744.1	4732.4	4671.4	4692.5
5°	5008.8	4985.4	4945.5	4868.2	4744.1	4619.9	4544.9	4448.9	4409.1	4388.0	4397.3
7.5°	5062.7	5020.5	4905.7	4797.9	4605.8	4371.6	4235.7	4106.8	3942.8	3924.1	3891.3
10°	5076.7	4987.7	4840.1	4610.5	4355.2	4095.1	3785.9	3546.9	3420.4	3322.0	3284.5
12.5°	5055.7	5018.2	4734.7	4439.5	4053.0	3645.3	3284.5	2947.2	2712.9	2591.1	2558.3
15°	5053.3	4987.7	4617.6	4179.5	3685.1	3153.3	2640.3	2235.0	1989.0	1888.3	1888.3
17.5°	5055.7	4898.7	4479.3	3917.1	3251.7	2532.5	1967.9	1635.2	1499.4	1485.3	1497.0
20°	5008.8	4833.1	4334.1	3607.8	2708.2	1902.3	1429.1	1293.2	1293.2	1311.9	1319.0
22.5°	4966.6	4734.7	4104.5	3226.0	2155.3	1377.5	1162.0	1122.2	1166.7	1199.5	1213.5
25°	4908.1	4652.7	3870.2	2830.0	1639.9	1110.5	1009.7	1019.1	1061.3	1119.8	1115.1
27.5°	4823.7	4509.8	3591.4	2370.9	1220.6	958.2	932.4	937.1	981.6	1007.4	1002.7
30°	4727.7	4364.5	3333.7	1914.0	967.6	878.5	876.2	887.9	894.9	909.0	906.6
32.5°	4605.8	4172.4	3059.6	1487.6	871.5	834.0	824.6	817.6	824.6	822.3	815.3
35°	4519.2	4069.4	2780.8	1133.9	817.6	794.2	787.2	775.4	766.1	752.0	749.7
37.5°	4495.7	3966.3	2488.0	925.4	775.4	763.7	740.3	719.2	707.5	700.5	695.8
40°	4481.7	3898.3	2202.2	812.9	740.3	728.6	700.5	672.4	660.7	653.6	656.0
42.5°	4530.9	3860.8	1911.7	756.7	709.9	688.8	658.3	625.5	623.2	618.5	625.5
45°	4704.2	3907.7	1642.3	716.9	679.4	644.3	604.4	588.0	585.7	581.0	585.7
47.5°	5097.8	4024.8	1412.7	691.1	646.6	616.1	574.0	550.5	548.2	545.9	545.9
50°	5641.3	4385.6	1220.6	660.7	625.5	583.3	543.5	517.7	513.1	503.7	503.7
52.5°	6494.1	4992.4	1105.8	644.3	588.0	552.9	510.7	482.6	470.9	461.5	461.5
55°	7454.6	5744.4	1084.7	616.1	548.2	515.4	477.9	449.8	438.1	426.4	421.7
57.5°	8548.7	6740.1	1234.6	597.4	520.1	477.9	435.8	410.0	400.6	388.9	384.2
60°	9567.8	7733.4	1700.8	569.3	494.3	442.8	400.6	374.8	363.1	351.4	351.4
62.5°	10746.2	8963.4	2490.3	569.3	470.9	405.3	363.1	344.4	337.4	325.6	323.3
65°	12140.1	10235.5	3066.7	604.4	463.9	372.5	328.0	309.2	302.2	295.2	292.8
67.5°	13201.4	10966.4	2637.9	698.1	494.3	344.4	292.8	281.1	276.4	269.4	264.7
70°	13313.8	10521.3	1590.7	754.4	524.8	316.3	262.4	250.7	250.7	243.6	239.0
72.5°	12304.1	9335.9	1070.6	672.4	475.6	283.5	231.9	222.6	217.9	213.2	210.8
75°	10296.4	7918.5	845.7	536.5	365.5	234.3	201.5	192.1	185.1	182.7	178.0
77.5°	6915.8	5147.0	625.5	419.4	269.4	189.8	168.7	159.3	152.3	149.9	142.9
80°	2656.7	1960.9	403.0	304.6	189.8	149.9	133.5	124.2	119.5	112.5	107.8
82.5°	782.5	634.9	224.9	187.4	121.8	103.1	96.1	89.0	82.0	75.0	72.6
85°	323.3	290.5	138.2	98.4	75.0	60.9	56.2	49.2	42.2	37.5	32.8
87.5°	149.9	124.2	63.3	37.5	25.8	14.1	7.0	2.3	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)