

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: P480285

Luminaire Tested: **IFLD-M-SA4D-830-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480285
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-830-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

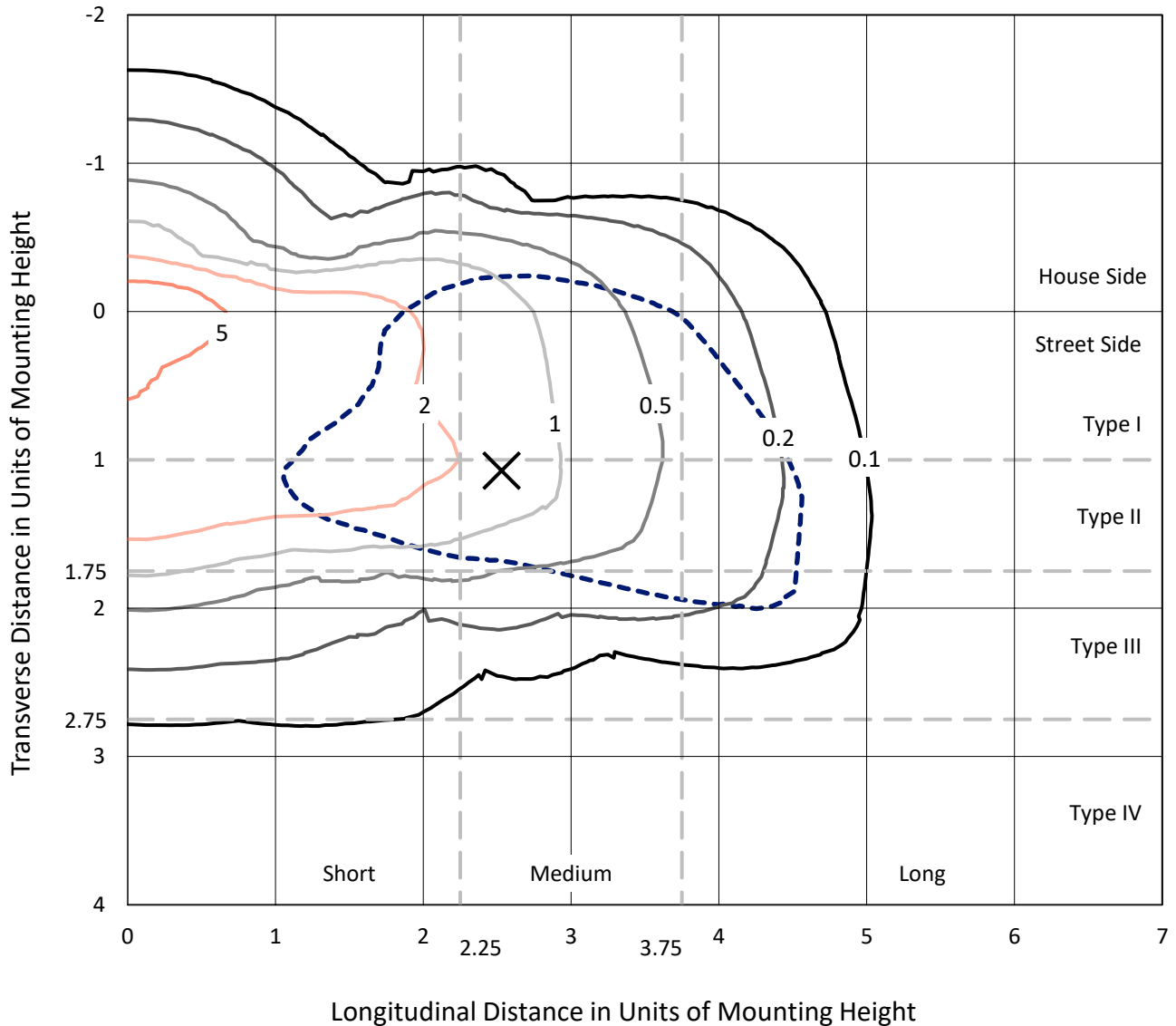
Lumens per Lamp: N/A
Luminaire Lumens: 24785.1 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.7
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

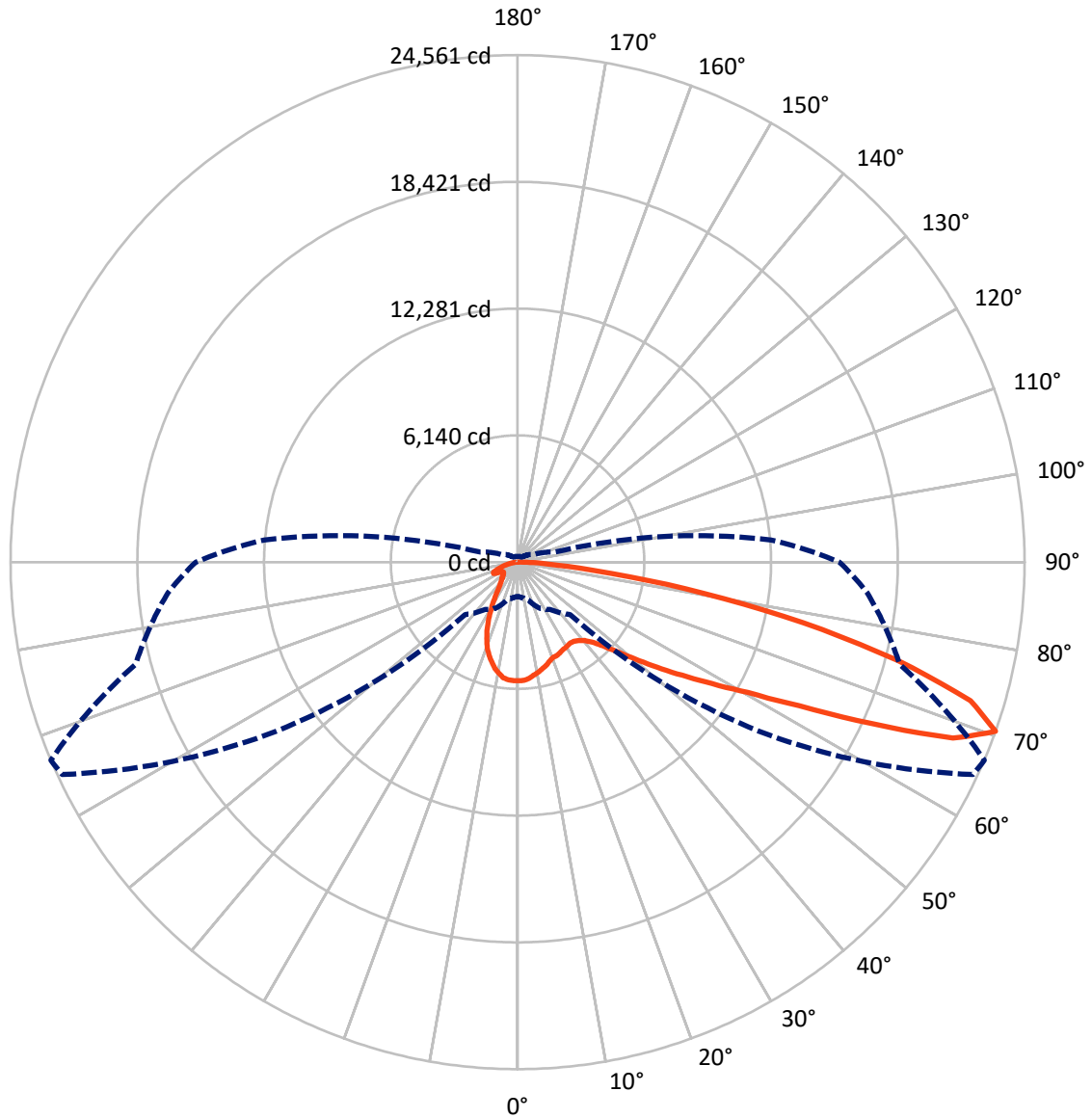
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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
House Side	Lumens	4827.1	0.0	4827.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	19957.9	0.0	19957.9
	% Fixture	80.5	0.0	80.5
Total	Lumens	24785.1	0.0	24785.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.6	2.0
10°-20°	1199.0	4.8
20°-30°	1619.1	6.5
30°-40°	2166.5	8.7
40°-50°	3185.8	12.9
50°-60°	4965.9	20.0
60°-70°	6117.2	24.7
70°-80°	4322.4	17.4
80°-90°	708.5	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°	24785.1	100.0
0°-180°	24785.1	100.0

Coefficient of Utilization



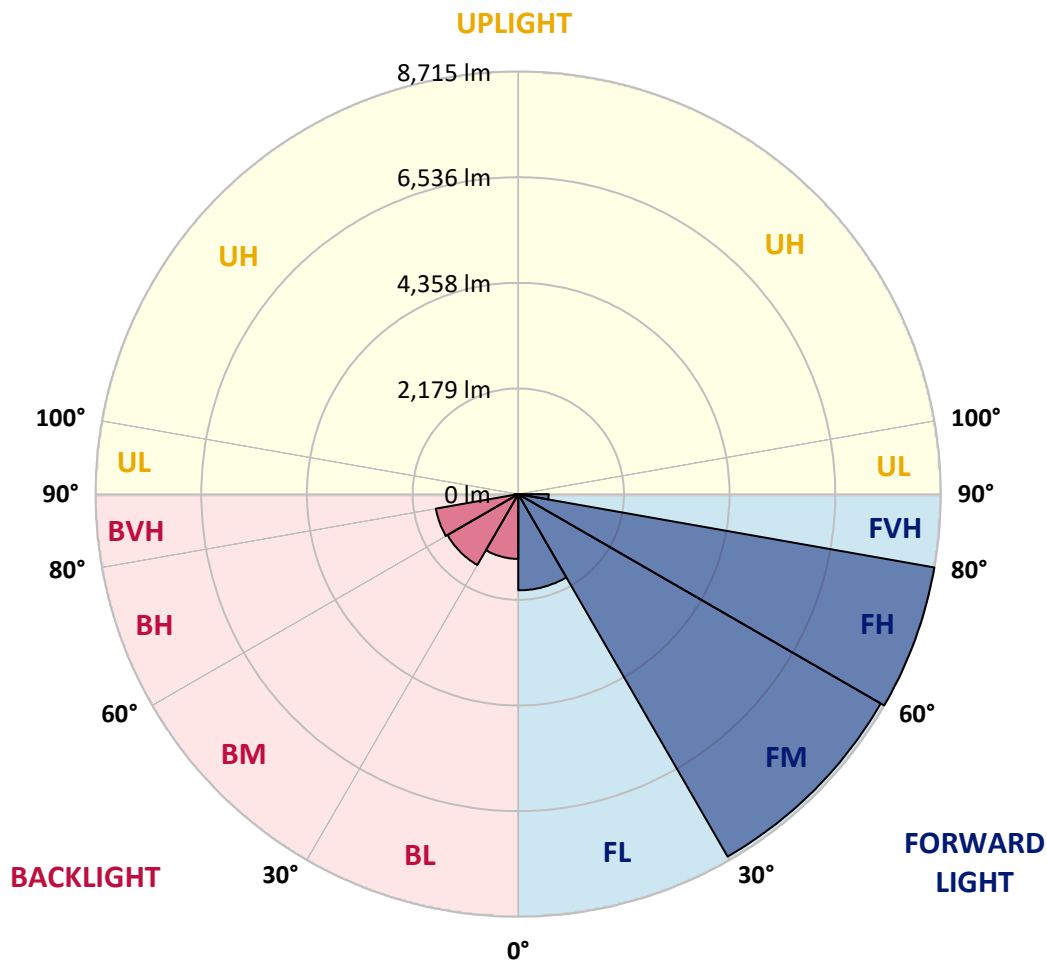
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1983.9	8.0			
FM (30°-60°)	8632.1	34.8			
FH (60°-80°)	8715.2	35.2			G4/12000
FVH (80°-90°)	626.7	2.5			G4/750
BL (0°-30°)	1334.9	5.4	B3/2500		
BM (30°-60°)	1686.2	6.8	B2/2500		
BH (60°-80°)	1724.3	7.0	B3/2500		G3/2500
BVH (80°-90°)	81.7	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°	5737.7	5737.7	5737.7	5737.7	5737.7	5737.7	5737.7	5737.7	5737.7	5737.7	5737.7
2.5°	5342.5	5402.9	5424.9	5457.8	5542.8	5606.0	5644.4	5688.3	5740.4	5784.3	5811.8
5°	4969.4	5002.3	5054.4	5090.1	5197.1	5367.2	5482.5	5669.1	5663.6	5732.2	5836.4
7.5°	4607.1	4640.1	4664.8	4736.1	4889.8	5043.4	5254.7	5556.6	5534.6	5693.8	5855.7
10°	4382.1	4357.4	4365.7	4486.4	4607.1	4780.0	5046.2	5353.5	5433.1	5680.0	5910.5
12.5°	4170.9	4143.4	4209.3	4286.1	4434.3	4590.7	4909.0	5186.1	5306.9	5630.7	5935.2
15°	4039.1	4019.9	4102.3	4135.2	4310.8	4497.4	4722.4	5059.9	5191.6	5570.3	5896.8
17.5°	3965.1	3981.5	4011.7	4083.0	4195.5	4354.7	4601.7	4974.8	5032.5	5496.2	5888.6
20°	3978.8	3998.0	4000.7	4030.9	4107.7	4231.2	4483.7	4884.3	4922.7	5482.5	5910.5
22.5°	4088.5	4061.1	4072.1	4052.9	4074.8	4170.9	4393.1	4763.6	4911.7	5367.2	5863.9
25°	4253.2	4214.8	4209.3	4143.4	4102.3	4129.7	4376.7	4733.4	4829.4	5331.6	5861.1
27.5°	4544.0	4486.4	4486.4	4387.6	4220.2	4176.3	4330.0	4684.0	4769.0	5298.6	5798.0
30°	4823.9	4823.9	4826.7	4686.7	4500.1	4283.4	4349.2	4664.8	4719.6	5199.8	5713.0
32.5°	5164.2	5155.9	5142.2	5073.6	4785.5	4461.7	4442.5	4640.1	4667.5	5166.9	5688.3
35°	5496.2	5474.2	5581.3	5520.9	5227.3	4810.2	4538.5	4651.0	4711.4	5117.5	5611.4
37.5°	5745.9	5759.6	5981.9	6020.3	5767.8	5205.3	4810.2	4760.8	4818.4	5188.9	5611.4
40°	6069.7	6124.6	6333.1	6462.1	6308.4	5726.7	5241.0	4944.7	4985.8	5348.0	5732.2
42.5°	6495.0	6541.7	6807.8	6975.2	6931.3	6390.7	5666.3	5328.8	5295.9	5614.2	5913.3
45°	7057.5	7065.8	7334.7	7565.2	7655.7	7085.0	6341.3	5814.5	5787.1	6072.4	6245.3
47.5°	7727.1	7718.8	7886.2	8133.2	8377.4	7913.6	7117.9	6552.6	6453.8	6728.2	6796.8
50°	8374.6	8339.0	8377.4	8692.9	9162.2	8950.9	8061.8	7455.4	7356.6	7507.5	7625.5
52.5°	8731.3	8775.3	8671.0	9088.1	9996.3	10177.4	9313.1	8533.8	8448.7	8522.8	8728.6
55°	8481.6	8572.2	8503.6	8898.7	10361.3	11672.9	10932.0	9782.3	9672.5	9645.1	9982.6
57.5°	7419.7	7584.4	7598.1	8223.7	10235.1	12830.9	13209.5	11255.8	11091.2	10811.3	11159.8
60°	5696.5	5861.1	5987.4	6728.2	9153.9	13522.3	15849.2	13352.2	12808.9	12084.5	12293.0
62.5°	3992.5	4105.0	4231.2	4686.7	7057.5	13116.2	18132.2	16304.7	15303.2	13426.3	13687.0
65°	2908.6	2996.4	3125.4	3394.3	4335.5	10852.4	19191.4	19811.5	18862.1	15133.1	15100.1
67.5°	2189.7	2244.6	2414.7	2845.5	3004.7	6703.5	18093.8	23515.9	22747.6	17029.2	16236.1
70°	1657.4	1704.0	1863.2	2453.1	2807.1	3594.6	14274.2	24341.9	24561.4	19155.7	16999.0
72.5°	1141.5	1193.6	1372.0	2044.3	2672.6	2851.0	8959.1	22113.7	22945.2	20031.1	16181.3
75°	699.7	735.4	839.7	1550.3	2653.4	2787.9	4930.9	18121.3	19002.1	18508.2	14156.2
77.5°	493.9	491.2	510.4	908.3	2299.5	2804.3	3040.3	13278.1	14134.2	13640.3	9606.7
80°	359.5	362.2	381.4	543.3	1561.3	2851.0	2395.5	8893.2	9148.4	7112.4	3789.4
82.5°	216.8	227.8	274.4	367.7	938.4	2573.9	2214.4	4941.9	4623.6	2283.0	1042.7
85°	115.2	115.2	161.9	233.2	499.4	1920.8	2132.1	2351.6	1970.2	707.9	386.9
87.5°	27.4	27.4	46.6	93.3	200.3	919.2	1454.3	935.7	749.1	238.7	159.2
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°	5737.7	5737.7	5737.7	5737.7	5737.7	5737.7	5737.7	5737.7	5737.7	5737.7	5737.7
2.5°	5800.8	5767.8	5809.0	5726.7	5660.8	5663.6	5562.1	5556.6	5542.8	5471.5	5496.2
5°	5866.6	5839.2	5792.5	5702.0	5556.6	5411.1	5323.3	5210.8	5164.2	5139.5	5150.5
7.5°	5929.7	5880.4	5745.9	5619.7	5394.7	5120.3	4961.1	4810.2	4618.1	4596.2	4557.8
10°	5946.2	5841.9	5669.1	5400.2	5101.1	4796.5	4434.3	4154.4	4006.2	3891.0	3847.1
12.5°	5921.5	5877.6	5545.6	5199.8	4747.1	4269.6	3847.1	3451.9	3177.5	3034.8	2996.4
15°	5918.8	5841.9	5408.4	4895.3	4316.3	3693.4	3092.5	2617.8	2329.6	2211.6	2211.6
17.5°	5921.5	5737.7	5246.5	4587.9	3808.6	2966.2	2304.9	1915.3	1756.1	1739.7	1753.4
20°	5866.6	5660.8	5076.4	4225.7	3172.0	2228.1	1673.8	1514.7	1514.7	1536.6	1544.9
22.5°	5817.2	5545.6	4807.5	3778.5	2524.5	1613.5	1361.0	1314.4	1366.5	1404.9	1421.4
25°	5748.6	5449.5	4533.1	3314.7	1920.8	1300.6	1182.7	1193.6	1243.0	1311.6	1306.1
27.5°	5649.9	5282.2	4206.5	2776.9	1429.6	1122.3	1092.1	1097.6	1149.7	1179.9	1174.4
30°	5537.4	5112.0	3904.7	2241.8	1133.3	1029.0	1026.2	1040.0	1048.2	1064.7	1061.9
32.5°	5394.7	4887.0	3583.6	1742.4	1020.8	976.9	965.9	957.6	965.9	963.1	954.9
35°	5293.1	4766.3	3257.1	1328.1	957.6	930.2	922.0	908.3	897.3	880.8	878.1
37.5°	5265.7	4645.6	2914.1	1083.9	908.3	894.5	867.1	842.4	828.7	820.5	815.0
40°	5249.2	4566.0	2579.3	952.2	867.1	853.4	820.5	787.5	773.8	765.6	768.3
42.5°	5306.9	4522.1	2239.1	886.3	831.4	806.7	771.1	732.6	729.9	724.4	732.6
45°	5509.9	4577.0	1923.5	839.7	795.8	754.6	707.9	688.7	686.0	680.5	686.0
47.5°	5970.9	4714.2	1654.6	809.5	757.3	721.7	672.3	644.8	642.1	639.3	639.3
50°	6607.5	5136.7	1429.6	773.8	732.6	683.3	636.6	606.4	600.9	590.0	590.0
52.5°	7606.3	5847.4	1295.2	754.6	688.7	647.6	598.2	565.3	551.5	540.6	540.6
55°	8731.3	6728.2	1270.5	721.7	642.1	603.7	559.8	526.8	513.1	499.4	493.9
57.5°	10012.8	7894.4	1446.1	699.7	609.2	559.8	510.4	480.2	469.2	455.5	450.0
60°	11206.4	9057.9	1992.1	666.8	579.0	518.6	469.2	439.0	425.3	411.6	411.6
62.5°	12586.6	10498.5	2916.9	666.8	551.5	474.7	425.3	403.4	395.1	381.4	378.7
65°	14219.3	11988.5	3591.9	707.9	543.3	436.3	384.2	362.2	354.0	345.7	343.0
67.5°	15462.3	12844.6	3089.7	817.7	579.0	403.4	343.0	329.3	323.8	315.6	310.1
70°	15594.0	12323.2	1863.2	883.6	614.7	370.4	307.3	293.6	293.6	285.4	279.9
72.5°	14411.4	10934.8	1254.0	787.5	557.0	332.0	271.7	260.7	255.2	249.7	247.0
75°	12059.8	9274.7	990.6	628.4	428.1	274.4	236.0	225.0	216.8	214.0	208.5
77.5°	8100.2	6028.5	732.6	491.2	315.6	222.3	197.6	186.6	178.4	175.6	167.4
80°	3111.7	2296.7	472.0	356.7	222.3	175.6	156.4	145.4	139.9	131.7	126.2
82.5°	916.5	743.6	263.4	219.5	142.7	120.7	112.5	104.3	96.0	87.8	85.1
85°	378.7	340.3	161.9	115.2	87.8	71.3	65.9	57.6	49.4	43.9	38.4
87.5°	175.6	145.4	74.1	43.9	30.2	16.5	8.2	2.7	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)