

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: P480979

Luminaire Tested: **IFLD-S-SA6A-760-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480979
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-760-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

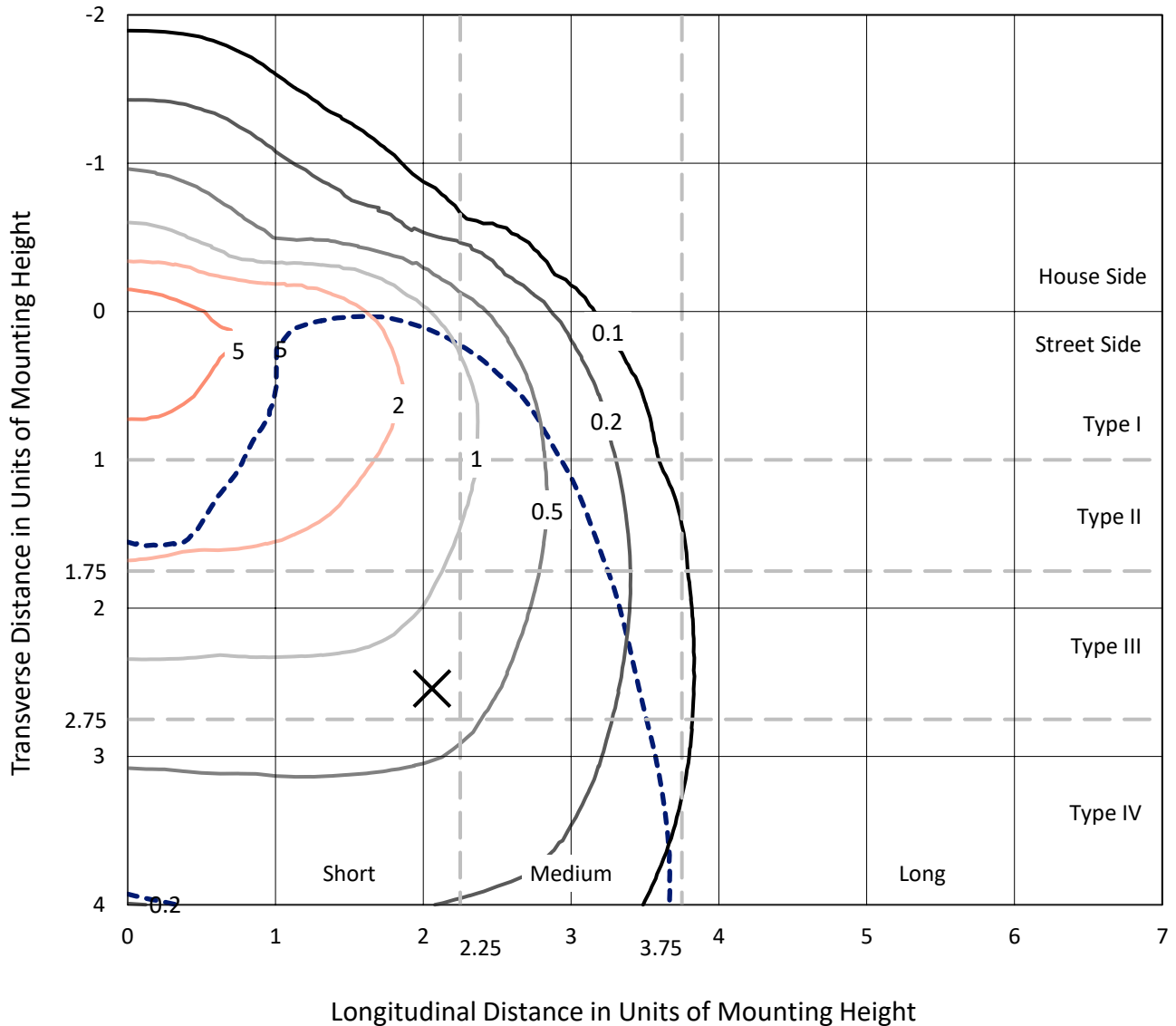
Lumens per Lamp: N/A
Luminaire Lumens: 26704.7 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 189.6
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

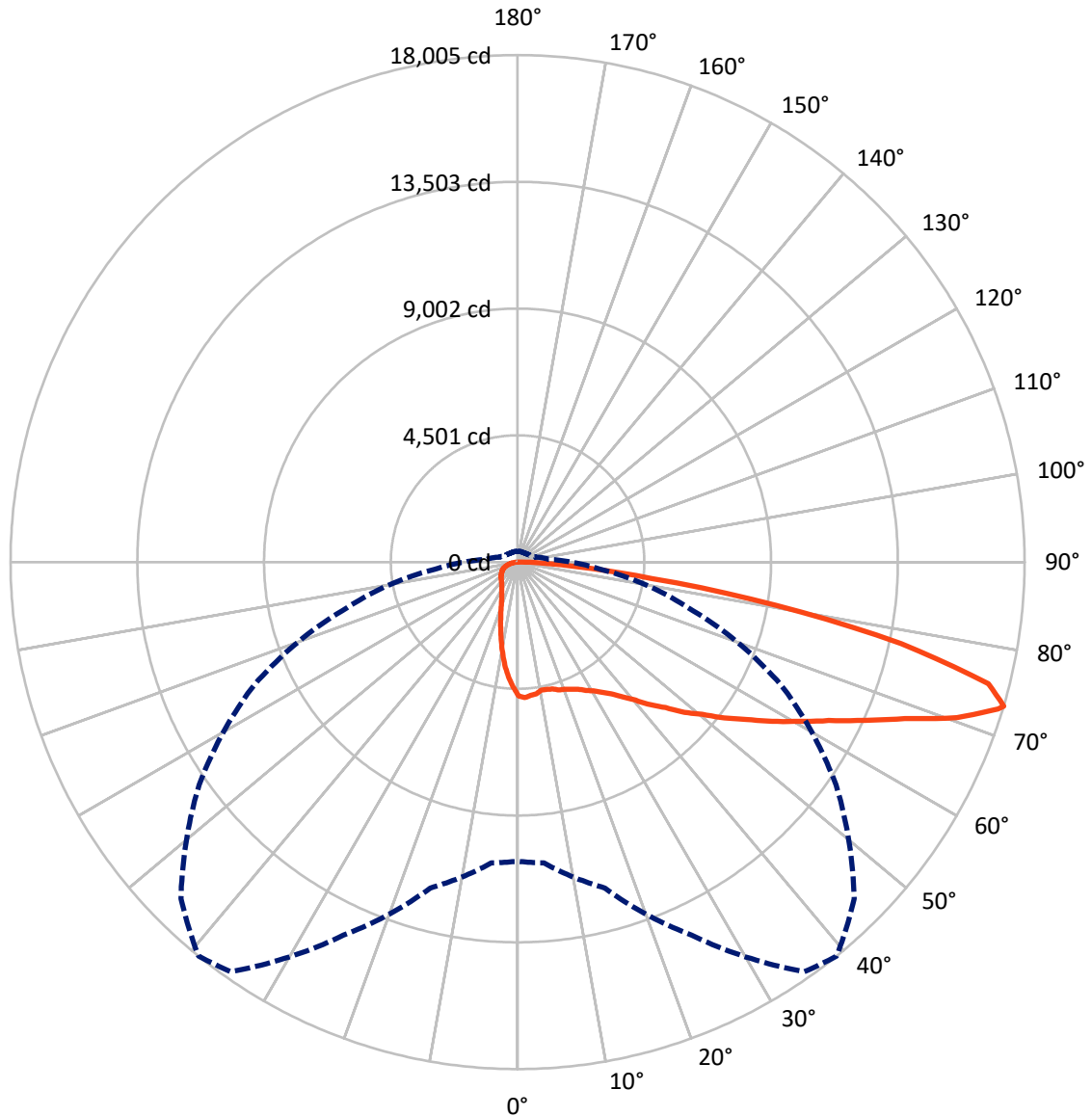
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3753.9	0.0	3753.9
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	22950.7	0.0	22950.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	26704.7	0.0	26704.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.7	1.5
10°-20°	1049.0	3.9
20°-30°	1603.0	6.0
30°-40°	2337.2	8.8
40°-50°	3531.8	13.2
50°-60°	5114.3	19.2
60°-70°	6497.9	24.3
70°-80°	5267.6	19.7
80°-90°	891.2	3.3
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°	26704.7	100.0
0°-180°	26704.7	100.0

Coefficient of Utilization



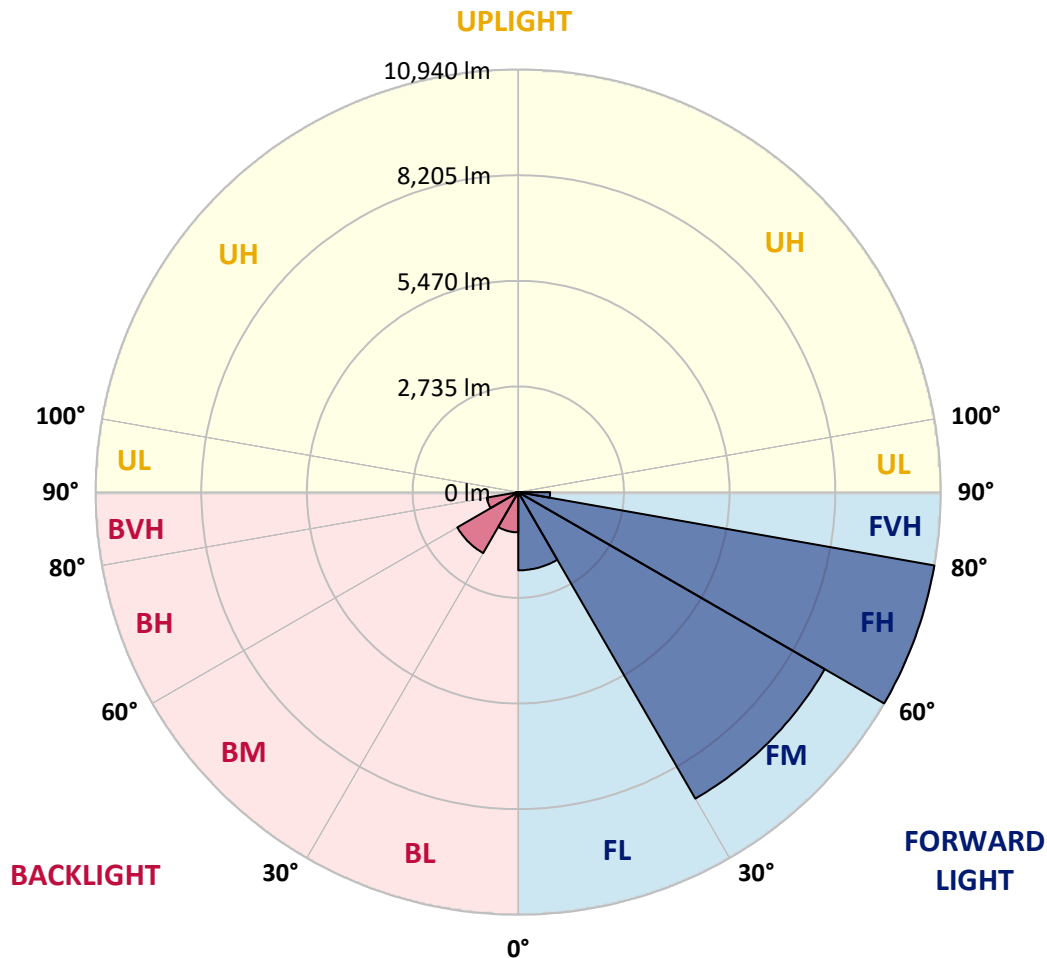
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2023.6	7.6			
FM (30°-60°)	9161.4	34.3			
FH (60°-80°)	10939.8	41.0			G4/12000
FVH (80°-90°)	825.9	3.1			G5
BL (0°-30°)	1041.0	3.9	B3/2500		
BM (30°-60°)	1821.9	6.8	B2/2500		
BH (60°-80°)	825.6	3.1	B2/1000		G2/1000
BVH (80°-90°)	65.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4753.6	4753.6	4753.6	4753.6	4753.6	4753.6	4753.6	4753.6	4753.6	4753.6	4753.6
2.5°	4867.1	4816.3	4825.3	4807.4	4825.3	4819.3	4810.4	4765.5	4810.4	4765.5	4753.6
5°	4801.4	4801.4	4831.3	4786.5	4792.4	4762.6	4792.4	4759.6	4729.7	4655.0	4634.1
7.5°	4780.5	4777.5	4780.5	4717.7	4747.6	4729.7	4699.8	4664.0	4604.2	4556.4	4487.7
10°	4637.1	4666.9	4634.1	4652.0	4675.9	4622.1	4619.1	4610.2	4583.3	4520.5	4478.7
12.5°	4559.4	4610.2	4628.1	4613.2	4634.1	4640.1	4622.1	4610.2	4577.3	4535.5	4416.0
15°	4592.3	4532.5	4583.3	4681.9	4661.0	4675.9	4678.9	4666.9	4652.0	4574.3	4496.6
17.5°	4601.2	4565.4	4672.9	4693.8	4720.7	4774.5	4738.7	4735.7	4678.9	4625.1	4511.6
20°	4622.1	4607.2	4693.8	4804.4	4807.4	4816.3	4834.3	4789.4	4759.6	4666.9	4493.7
22.5°	4699.8	4750.6	4831.3	4879.1	4906.0	4911.9	4911.9	4822.3	4789.4	4714.8	4577.3
25°	4932.9	4879.1	4992.6	5049.4	5010.5	5001.6	4980.7	4900.0	4864.1	4798.4	4616.2
27.5°	5103.2	5100.2	5165.9	5243.6	5139.0	5159.9	5085.2	5061.3	4980.7	4944.8	4684.9
30°	5336.2	5401.9	5399.0	5422.9	5285.4	5309.3	5213.7	5168.9	5124.1	5145.0	4888.0
32.5°	5635.0	5611.1	5649.9	5632.0	5494.6	5515.5	5401.9	5333.2	5348.2	5410.9	5165.9
35°	5826.2	5802.3	5817.3	5817.3	5775.4	5751.5	5703.7	5614.1	5685.8	5802.3	5476.6
37.5°	6032.4	6062.3	6148.9	6131.0	6077.2	6077.2	6071.2	6008.5	6101.1	6387.9	5972.6
40°	6214.6	6295.3	6349.1	6384.9	6447.7	6447.7	6498.5	6462.6	6629.9	7090.1	6579.1
42.5°	6405.8	6408.8	6701.6	6728.5	6869.0	6928.7	6967.6	6997.4	7311.2	7825.1	7227.5
45°	6650.8	6665.8	6922.7	7128.9	7347.0	7367.9	7514.3	7612.9	7998.3	8628.8	7932.6
47.5°	6973.5	6955.6	7230.5	7559.1	7831.0	7974.4	8150.7	8258.3	8733.3	9501.2	8703.5
50°	7397.8	7344.0	7502.4	8019.3	8339.0	8497.3	8811.0	8990.3	9546.0	10334.8	9232.3
52.5°	7914.7	7825.1	7950.5	8515.2	8873.8	9193.5	9492.3	9692.4	10272.1	10980.2	9623.7
55°	8461.5	8276.2	8312.1	9041.1	9558.0	9859.7	10269.1	10478.2	11069.8	11559.8	10015.1
57.5°	9002.3	8885.7	8814.0	9546.0	10373.7	10663.5	11039.9	11311.8	11813.8	12073.7	10346.8
60°	9456.4	9426.5	9310.0	10328.8	11237.1	11485.1	11879.5	12046.8	12426.3	12548.8	10352.7
62.5°	9829.9	9728.3	9913.5	10959.3	12115.5	12396.4	12829.6	12844.6	13113.5	12844.6	10048.0
65°	10122.7	10128.7	10424.4	11721.2	13131.4	13546.7	13896.3	13857.4	13684.1	12668.3	9327.9
67.5°	10388.6	10502.1	10935.4	12557.7	14437.1	14828.5	15216.9	14703.0	13839.5	11843.7	7920.7
70°	10597.7	10711.3	11625.5	13576.6	15975.8	16549.4	16636.1	15037.6	13125.4	10033.0	5975.6
72.5°	10573.8	10780.0	12016.9	14389.3	17341.2	17837.2	17138.0	14096.5	10935.4	6994.4	3486.8
73°	10624.6	10726.2	11984.1	14616.3	17756.5	18004.5	16905.0	13800.7	10313.9	6274.4	2949.0
75°	9644.6	9988.2	11389.5	14245.8	17311.3	17266.5	15566.5	11500.1	7332.1	3295.5	1428.2
77.5°	7134.9	7353.0	8975.4	11715.2	14210.0	13923.2	11742.1	7350.0	3480.8	1222.0	770.9
80°	3486.8	3657.1	4756.6	6764.4	9292.1	9316.0	7287.3	3824.4	1490.9	690.2	525.9
82.5°	1741.9	1843.5	2285.7	2972.9	4571.3	4789.4	3695.9	2175.1	923.2	391.4	298.8
85°	1138.4	1210.1	1407.3	1455.1	1939.1	2046.6	1721.0	1697.1	600.5	212.1	242.0
87.5°	755.9	767.9	863.5	735.0	776.8	747.0	830.6	1069.6	176.3	89.6	65.7
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4753.6	4753.6	4753.6	4753.6	4753.6	4753.6	4753.6	4753.6	4753.6	4753.6	4753.6
2.5°	4738.7	4696.8	4652.0	4589.3	4544.4	4475.7	4413.0	4386.1	4380.1	4383.1	4353.2
5°	4616.2	4556.4	4466.8	4338.3	4263.6	4150.1	4054.4	4003.7	3949.9	3958.8	3934.9
7.5°	4445.9	4380.1	4242.7	4093.3	3908.0	3746.7	3657.1	3531.6	3459.9	3406.1	3436.0
10°	4392.1	4278.5	4072.4	3866.2	3579.4	3367.3	3161.1	3017.7	2919.1	2823.5	2865.3
12.5°	4365.2	4251.6	3964.8	3660.1	3289.6	2966.9	2677.1	2500.8	2360.4	2276.7	2309.6
15°	4341.3	4200.9	3863.2	3433.0	3017.7	2593.4	2267.7	2034.7	1900.2	1819.6	1828.5
17.5°	4374.1	4174.0	3713.8	3211.9	2718.9	2264.8	1903.2	1661.2	1523.8	1473.0	1461.0
20°	4341.3	4144.1	3567.4	2990.8	2420.1	1951.0	1604.5	1404.3	1308.7	1266.8	1257.9
22.5°	4353.2	4072.4	3415.1	2745.8	2142.3	1688.1	1404.3	1251.9	1177.2	1156.3	1162.3
25°	4410.0	4030.5	3262.7	2476.9	1867.4	1493.9	1275.8	1159.3	1105.5	1084.6	1090.5
27.5°	4451.8	4066.4	3125.2	2222.9	1634.3	1320.6	1168.2	1090.5	1054.7	1039.8	1036.8
30°	4556.4	4087.3	2990.8	1995.9	1443.1	1207.1	1093.5	1030.8	1006.9	997.9	994.9
32.5°	4711.8	4126.2	2835.4	1786.7	1302.7	1099.5	1033.8	980.0	974.0	965.1	968.0
35°	4965.7	4260.6	2662.1	1607.4	1168.2	1027.8	971.0	935.2	935.2	935.2	944.1
37.5°	5330.2	4448.8	2506.8	1437.1	1081.6	965.1	917.3	905.3	899.3	908.3	914.3
40°	5799.3	4675.9	2381.3	1302.7	1006.9	923.2	881.4	875.4	872.4	869.5	875.4
42.5°	6313.2	4965.7	2273.7	1198.1	953.1	878.4	848.5	842.6	830.6	836.6	845.5
45°	6824.1	5324.3	2178.1	1114.5	917.3	854.5	812.7	809.7	803.7	800.7	815.7
47.5°	7391.8	5676.8	2148.2	1063.7	890.4	818.7	788.8	785.8	767.9	764.9	776.8
50°	7834.0	5936.8	2181.1	1039.8	851.5	791.8	770.9	755.9	741.0	726.0	726.0
52.5°	8138.8	6116.0	2205.0	1021.8	830.6	755.9	729.0	723.0	708.1	693.2	687.2
55°	8413.7	6223.6	2211.0	1024.8	809.7	714.1	696.2	693.2	684.2	660.3	654.3
57.5°	8506.3	6178.8	2091.5	997.9	797.7	687.2	663.3	669.3	657.3	636.4	633.4
60°	8497.3	5868.0	1819.6	962.1	770.9	657.3	627.4	645.4	645.4	621.5	618.5
62.5°	7980.4	5151.0	1487.9	893.4	741.0	627.4	594.6	621.5	630.4	615.5	612.5
65°	6907.8	4194.9	1242.9	824.6	696.2	594.6	561.7	591.6	606.5	600.5	597.6
67.5°	5715.7	3208.9	1033.8	735.0	639.4	549.8	522.9	543.8	552.7	555.7	558.7
70°	4039.5	2136.3	863.5	636.4	561.7	502.0	472.1	475.1	472.1	481.0	481.0
72.5°	2196.0	1231.0	702.1	540.8	484.0	436.2	415.3	400.4	400.4	397.4	397.4
73°	1879.3	1105.5	669.3	525.9	463.1	424.3	400.4	388.4	388.4	385.4	382.4
75°	1054.7	809.7	573.7	451.2	400.4	370.5	352.6	334.6	331.6	331.6	331.6
77.5°	693.2	630.4	457.1	361.5	322.7	295.8	289.8	271.9	271.9	271.9	268.9
80°	519.9	496.0	352.6	274.9	248.0	227.1	221.1	209.1	206.2	194.2	197.2
82.5°	346.6	391.4	257.0	194.2	167.3	155.4	155.4	152.4	143.4	128.5	128.5
85°	274.9	319.7	185.2	119.5	98.6	83.7	86.6	83.7	80.7	65.7	62.7
87.5°	50.8	128.5	53.8	32.9	23.9	14.9	14.9	9.0	6.0	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)