

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: P480674

Luminaire Tested: **IFLD-M-SA4C-830-U-SL3**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P480674
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-830-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

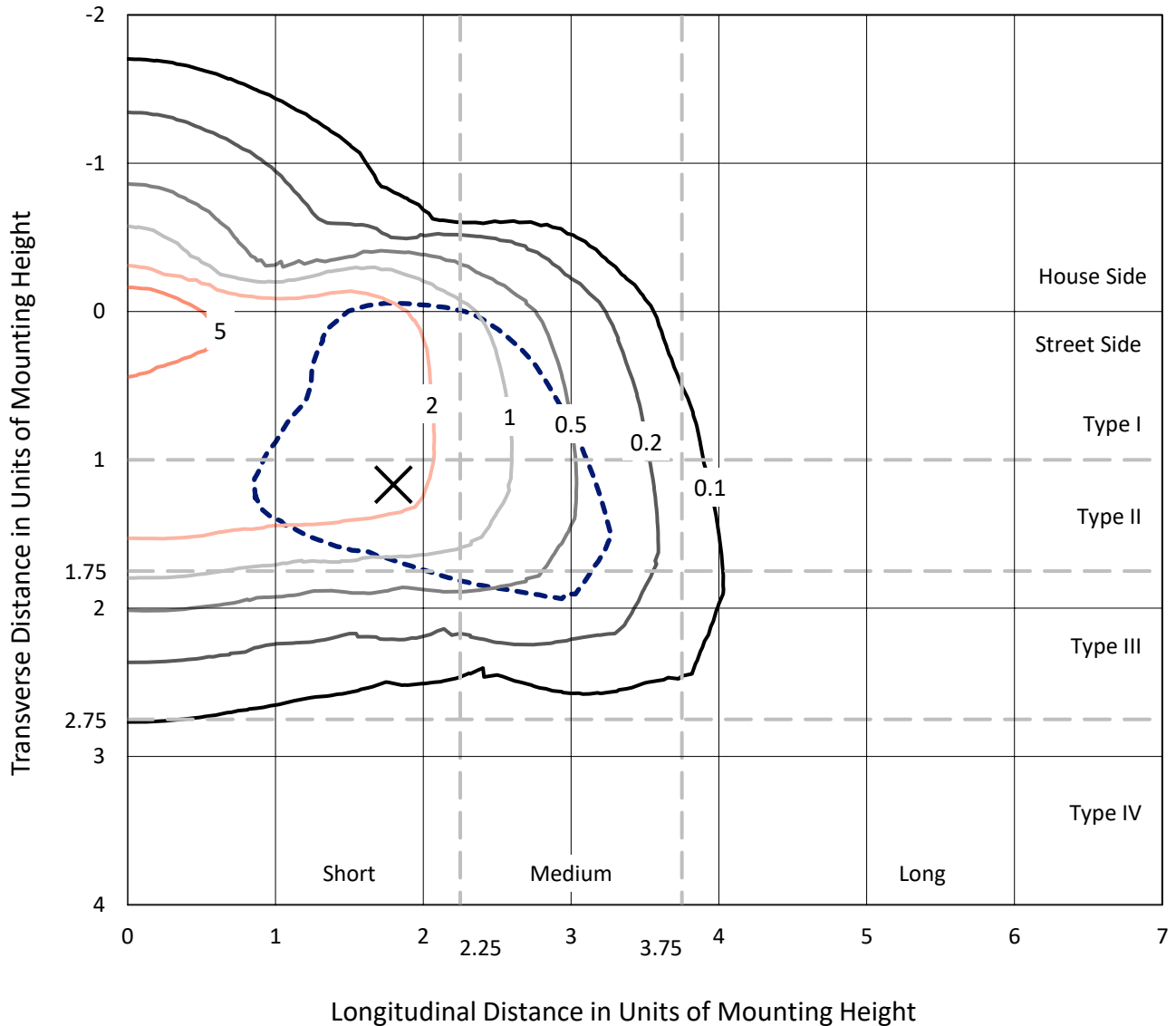
Lumens per Lamp: N/A
Luminaire Lumens: 22291.9 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
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

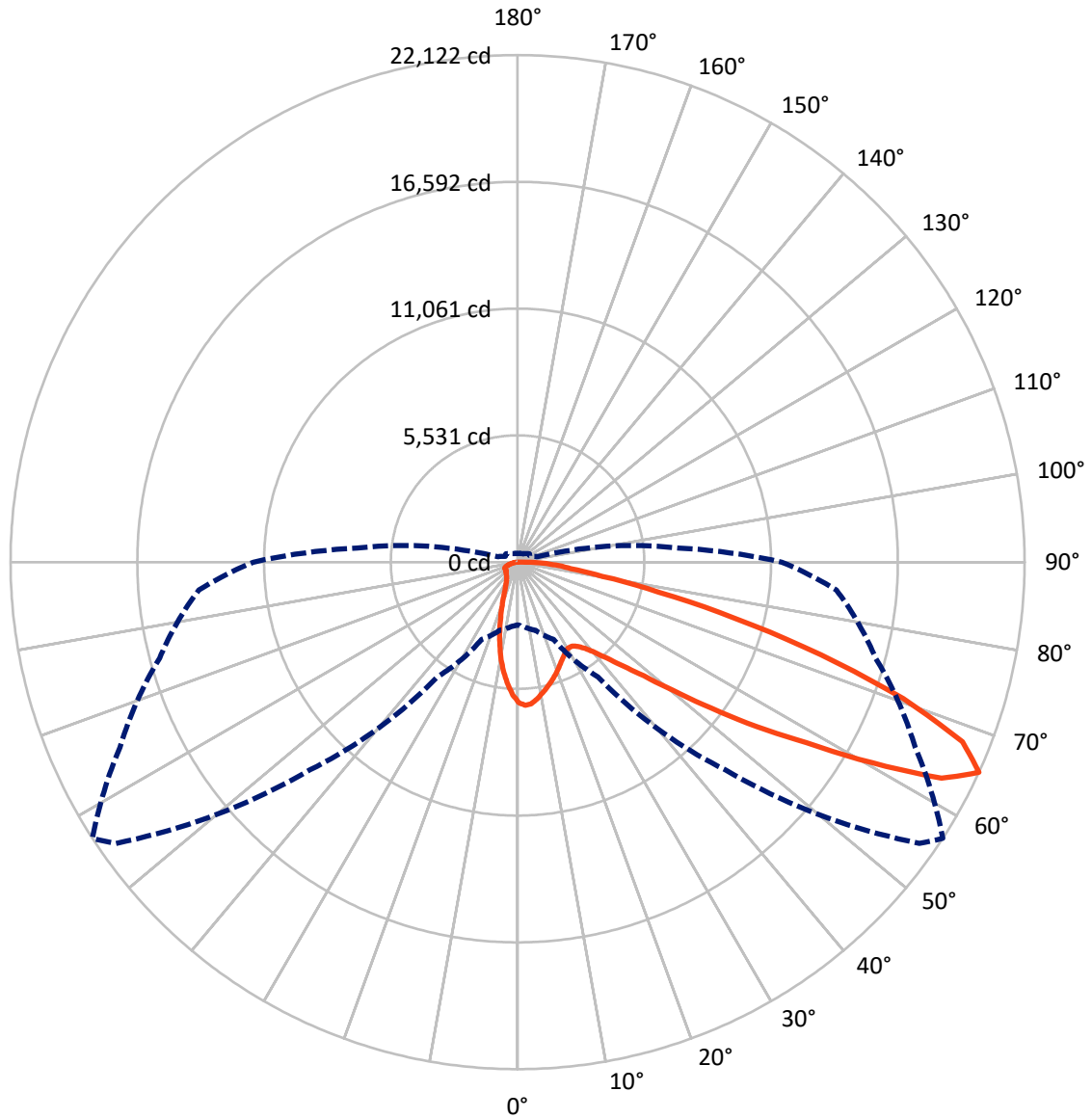
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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	3418.7	0.0	3418.7
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	18873.2	0.0	18873.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	22291.9	0.0	22291.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.3	2.3
10°-20°	1104.8	5.0
20°-30°	1428.4	6.4
30°-40°	1922.1	8.6
40°-50°	3064.9	13.7
50°-60°	5413.4	24.3
60°-70°	5955.5	26.7
70°-80°	2491.3	11.2
80°-90°	398.2	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°	22291.9	100.0
0°-180°	22291.9	100.0

Coefficient of Utilization



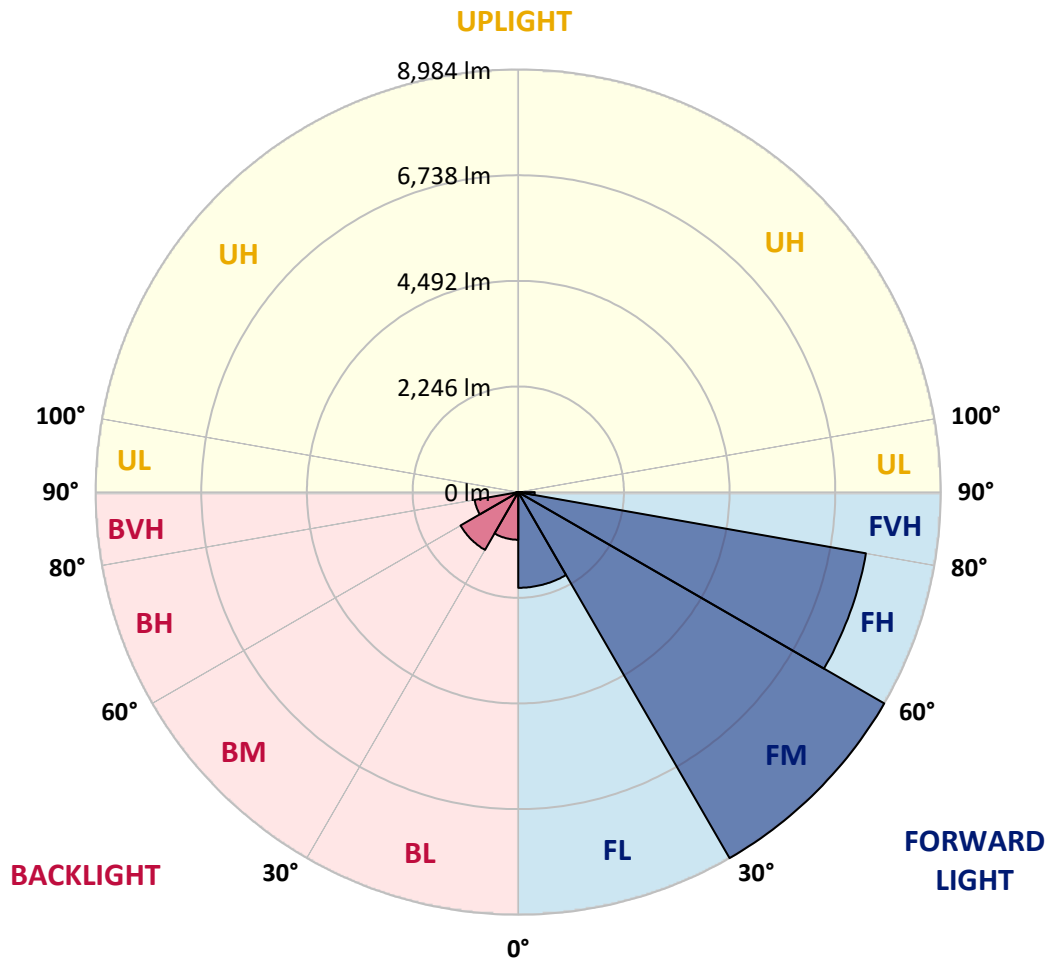
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2034.1	9.1			
FM (30°-60°)	8983.6	40.3			
FH (60°-80°)	7504.1	33.7			G4/12000
FVH (80°-90°)	351.4	1.6			G3/500
BL (0°-30°)	1012.4	4.5	B3/2500		
BM (30°-60°)	1416.9	6.4	B2/2500		
BH (60°-80°)	942.6	4.2	B2/1000		G2/1000
BVH (80°-90°)	46.7	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	6130.0	6130.0	6130.0	6130.0	6130.0	6130.0	6130.0	6130.0	6130.0	6130.0	6130.0
2.5°	6295.5	6305.5	6305.5	6325.6	6257.9	6290.5	6285.5	6255.4	6265.4	6212.7	6160.1
5°	6117.4	6109.9	6150.0	6155.0	6207.7	6222.8	6235.3	6215.2	6220.3	6104.9	6054.7
7.5°	5660.9	5658.4	5726.1	5783.8	5894.2	5997.0	6064.8	6044.7	6072.3	5999.5	5881.7
10°	5119.2	5176.9	5247.1	5304.8	5507.9	5638.4	5813.9	5831.5	5936.8	5919.3	5706.1
12.5°	4712.8	4737.9	4790.6	4956.1	5141.7	5357.4	5608.3	5630.8	5733.7	5783.8	5598.2
15°	4379.3	4401.8	4469.6	4592.5	4800.6	5056.5	5375.0	5432.7	5638.4	5655.9	5457.8
17.5°	4136.0	4153.5	4198.7	4321.6	4492.1	4820.7	5121.7	5224.5	5495.4	5580.7	5312.3
20°	4040.7	4003.0	4028.1	4105.9	4276.4	4529.8	4918.5	5008.8	5354.9	5523.0	5174.4
22.5°	3998.0	3965.4	3980.5	3975.4	4110.9	4291.5	4700.3	4795.6	5222.0	5455.3	5051.5
25°	4030.6	4030.6	4015.6	4003.0	4018.1	4136.0	4464.5	4612.5	5043.9	5397.6	4926.0
27.5°	4206.2	4138.5	4146.0	4093.3	4078.3	4078.3	4359.2	4447.0	4986.2	5365.0	4823.2
30°	4319.1	4351.7	4354.2	4276.4	4198.7	4058.2	4261.4	4346.7	4938.6	5405.1	4763.0
32.5°	4607.5	4592.5	4549.8	4534.8	4419.4	4261.4	4309.0	4366.7	4911.0	5495.4	4780.6
35°	4895.9	4888.4	4890.9	4883.4	4763.0	4529.8	4437.0	4514.7	4961.2	5653.4	4840.8
37.5°	5194.4	5214.5	5299.8	5299.8	5171.8	4918.5	4795.6	4773.0	5144.3	5911.8	4983.7
40°	5492.9	5543.1	5650.9	5821.5	5640.9	5405.1	5207.0	5171.8	5365.0	6257.9	5327.4
42.5°	5778.8	5861.6	6074.8	6328.1	6267.9	6032.1	5768.8	5728.7	5819.0	6772.1	5806.4
45°	6145.0	6215.2	6551.3	6940.1	7022.9	6814.7	6506.2	6473.6	6468.6	7524.5	6466.1
47.5°	6701.8	6777.1	7113.2	7504.4	7760.3	7792.9	7446.8	7411.6	7291.2	8540.3	7431.7
50°	7399.1	7522.0	7805.4	8261.9	8633.1	8981.8	8883.9	8781.1	8545.3	9721.7	8655.7
52.5°	7908.3	8058.7	8442.5	9026.9	9681.5	10235.8	10587.0	10587.0	10045.2	11018.4	10128.0
55°	8043.7	8134.0	8618.1	9463.3	10584.5	11986.5	12721.4	12666.3	11831.0	12382.8	11841.1
57.5°	7504.4	7622.3	8209.2	9094.6	11058.5	13624.4	14840.8	14853.4	13782.4	13968.0	13531.6
60°	6019.6	6057.2	6749.5	7933.3	10602.0	14943.7	17735.3	17782.9	16002.1	15380.1	14391.9
62.5°	4161.1	4281.4	4803.1	5841.5	8783.6	14795.7	20526.9	20762.6	17780.4	16125.0	14527.3
65°	2738.9	2811.7	3090.1	3722.1	6114.9	12824.3	21394.7	22122.0	19139.8	16167.7	13960.5
67.5°	1986.5	1999.0	2081.8	2407.8	3674.5	9222.5	19912.4	20938.2	19649.0	15811.5	12631.1
70°	1605.2	1615.3	1645.4	1853.5	2372.7	5771.3	16240.4	17848.1	18121.5	14123.5	10173.1
72.5°	1304.2	1316.8	1354.4	1550.0	1956.4	3210.5	11876.2	13835.1	14740.5	10449.0	6762.0
75°	1025.8	1035.9	1126.2	1319.3	1838.5	2204.7	7878.2	9796.9	9919.8	6107.4	3165.3
77.5°	702.3	719.8	830.2	1118.6	1730.6	1928.8	4911.0	6275.4	5630.8	2390.3	1088.5
80°	446.5	471.5	536.7	847.8	1530.0	1841.0	3054.9	3747.2	2465.5	817.7	524.2
82.5°	263.4	288.4	353.7	549.3	1201.4	1708.1	2152.0	2345.1	1156.3	418.9	316.0
85°	145.5	163.0	213.2	331.1	704.8	1517.4	1723.1	1683.0	662.2	223.2	198.1
87.5°	47.7	55.2	77.8	132.9	290.9	714.8	1033.4	970.7	343.6	102.8	77.8
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°	6130.0	6130.0	6130.0	6130.0	6130.0	6130.0	6130.0	6130.0	6130.0	6130.0	6130.0
2.5°	6124.9	6117.4	6004.6	5919.3	5773.8	5653.4	5605.8	5540.5	5538.0	5490.4	5477.8
5°	5977.0	5899.2	5726.1	5560.6	5302.3	5129.2	4971.2	4860.8	4815.7	4717.9	4695.3
7.5°	5786.3	5683.5	5417.6	5106.6	4803.1	4532.3	4286.5	4040.7	3902.7	3855.1	3802.4
10°	5588.2	5407.6	5013.8	4665.2	4241.3	3825.0	3438.7	3092.6	2904.5	2771.5	2713.8
12.5°	5430.2	5189.4	4687.8	4166.1	3606.7	3049.9	2601.0	2237.3	2024.1	1923.8	1878.6
15°	5252.1	4933.6	4331.6	3672.0	2974.7	2342.6	1903.7	1617.8	1532.5	1484.8	1477.3
17.5°	5064.0	4695.3	3945.3	3185.4	2357.7	1763.2	1479.8	1364.4	1326.8	1306.8	1296.7
20°	4888.4	4482.1	3549.1	2643.6	1846.0	1414.6	1281.7	1221.5	1219.0	1229.0	1226.5
22.5°	4640.1	4203.7	3157.8	2142.0	1474.8	1231.5	1146.2	1131.2	1146.2	1158.8	1163.8
25°	4499.7	3975.4	2721.4	1700.5	1219.0	1093.6	1066.0	1061.0	1083.5	1098.6	1096.1
27.5°	4354.2	3739.7	2315.0	1361.9	1068.5	995.7	990.7	995.7	1018.3	1040.9	1038.4
30°	4241.3	3551.6	1933.8	1138.7	953.1	925.5	920.5	925.5	938.1	940.6	940.6
32.5°	4148.5	3328.3	1610.2	988.2	882.9	860.3	865.3	862.8	865.3	867.8	870.3
35°	4093.3	3195.4	1344.4	895.4	825.2	807.6	805.1	797.6	800.1	802.6	800.1
37.5°	4211.2	3130.2	1133.7	830.2	785.1	770.0	765.0	760.0	752.5	752.5	752.5
40°	4389.3	3095.1	1005.8	787.6	755.0	737.4	722.4	717.3	717.3	719.8	722.4
42.5°	4742.9	3152.8	918.0	755.0	717.3	697.3	682.2	684.7	692.3	699.8	694.8
45°	5254.6	3328.3	877.9	729.9	694.8	667.2	657.1	654.6	662.2	674.7	684.7
47.5°	5924.3	3601.7	862.8	707.3	679.7	642.1	629.6	637.1	647.1	664.7	657.1
50°	7020.4	4216.2	875.4	687.2	657.1	629.6	614.5	607.0	614.5	627.0	632.1
52.5°	8452.5	5332.4	923.0	677.2	642.1	619.5	594.4	581.9	589.4	599.5	599.5
55°	10165.6	6857.3	1055.9	664.7	617.0	604.5	576.9	551.8	556.8	556.8	554.3
57.5°	11675.5	8008.6	1214.0	647.1	602.0	584.4	549.3	519.2	514.2	516.7	519.2
60°	12352.7	8314.6	1289.2	642.1	602.0	559.3	511.7	481.6	474.0	469.0	469.0
62.5°	12234.8	7785.4	1136.2	619.5	617.0	539.3	476.6	443.9	433.9	423.9	426.4
65°	11522.5	7030.4	895.4	589.4	619.5	526.7	441.4	408.8	391.3	378.7	376.2
67.5°	10220.8	6002.0	709.8	566.8	594.4	504.1	411.3	373.7	358.7	346.1	341.1
70°	7996.0	4705.3	617.0	536.7	534.2	449.0	376.2	343.6	321.0	306.0	306.0
72.5°	5184.4	2974.7	529.2	476.6	461.5	376.2	326.1	306.0	288.4	275.9	275.9
75°	2347.6	1382.0	426.4	398.8	376.2	301.0	275.9	265.9	250.8	238.3	238.3
77.5°	842.7	589.4	318.5	313.5	280.9	233.3	223.2	215.7	205.7	193.1	193.1
80°	471.5	373.7	238.3	228.2	195.6	173.1	160.5	160.5	155.5	148.0	145.5
82.5°	298.5	243.3	175.6	153.0	127.9	115.4	110.4	107.9	105.3	95.3	92.8
85°	188.1	165.5	115.4	90.3	75.2	57.7	55.2	52.7	47.7	42.6	42.6
87.5°	85.3	95.3	45.1	27.6	20.1	12.5	7.5	2.5	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)