

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: P480440

Luminaire Tested: **IFLD-M-SA4C-730-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480440
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-730-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

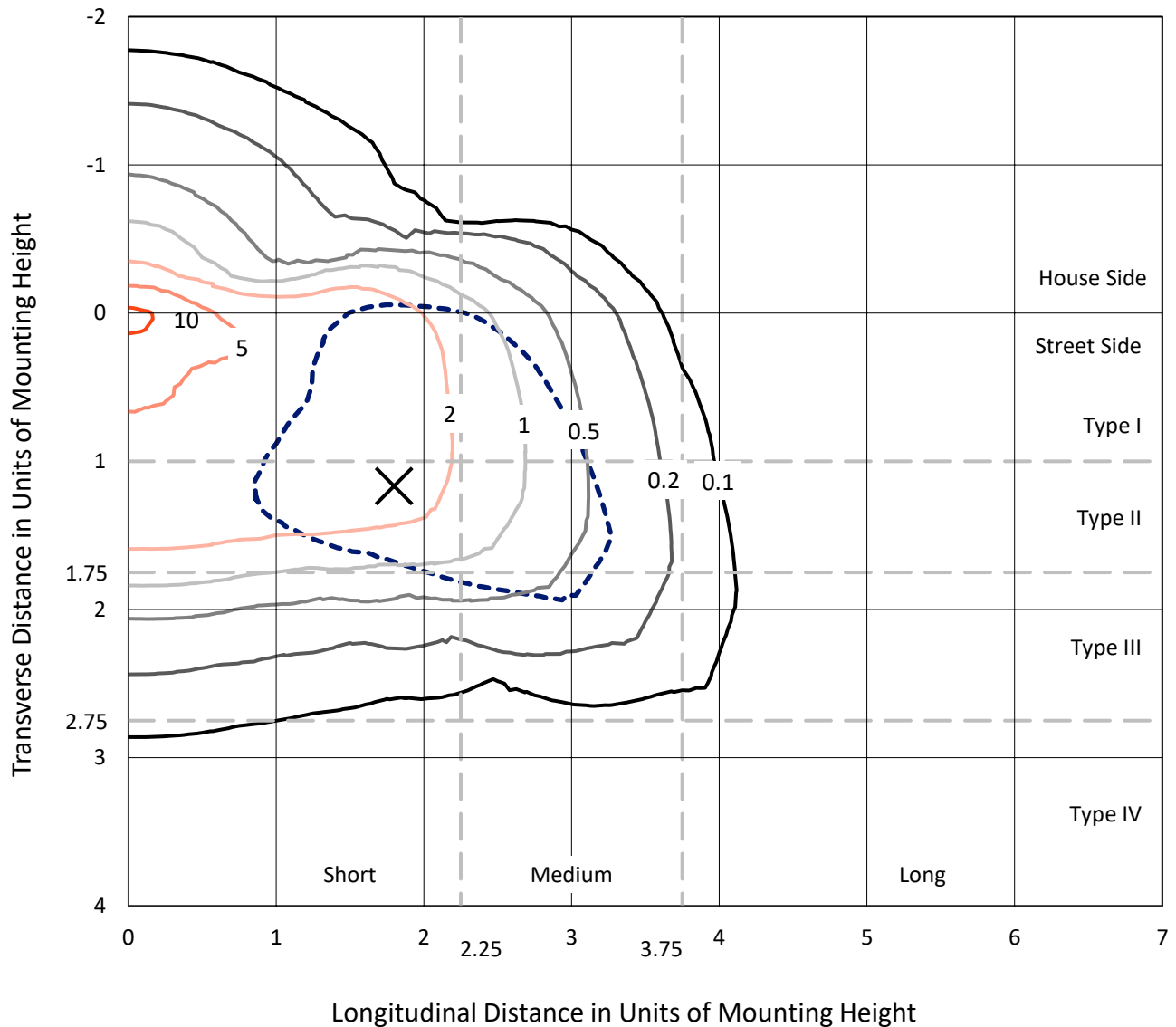
Lumens per Lamp: N/A
Luminaire Lumens: 25546.2 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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

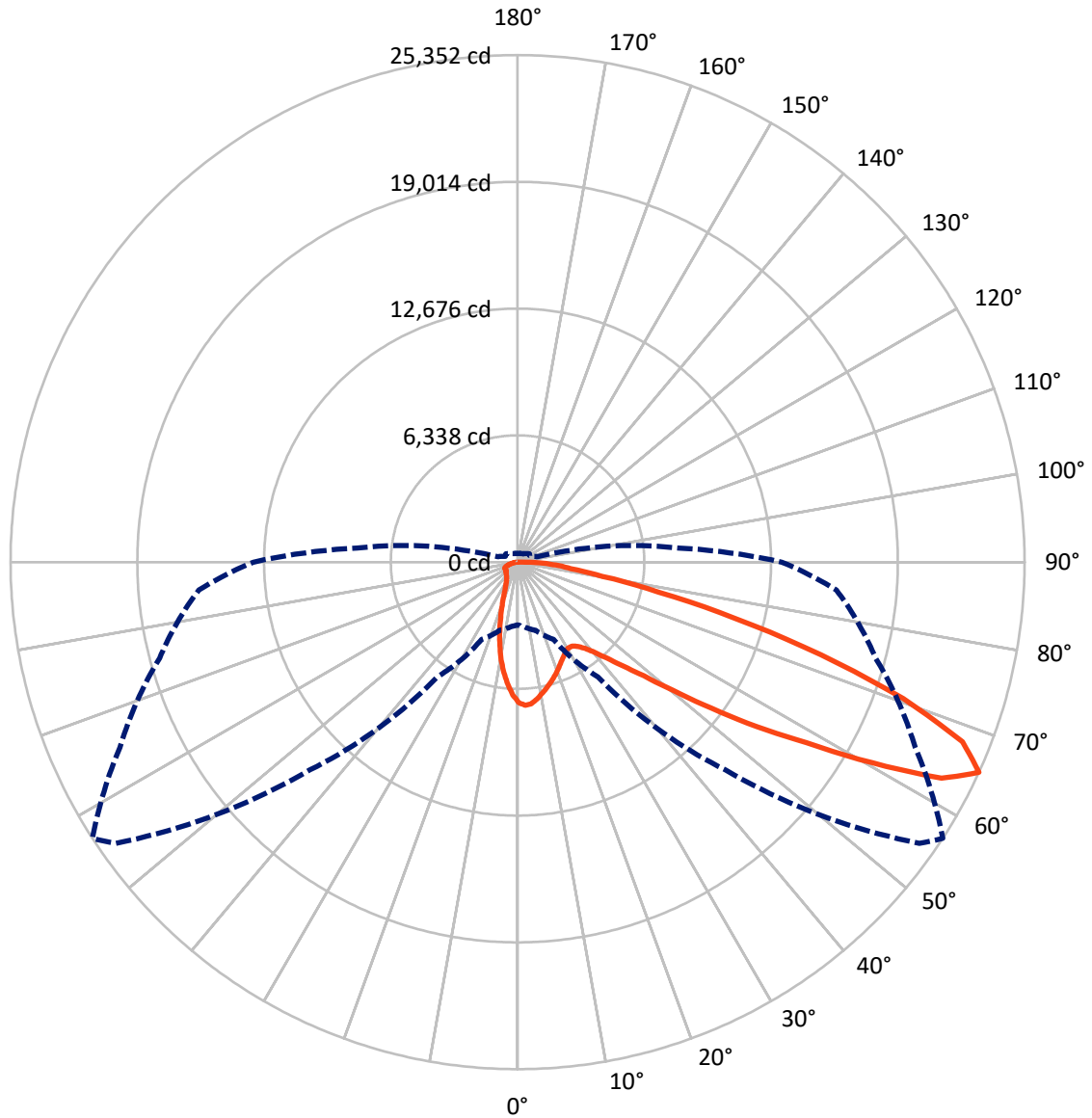
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 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	3917.8	0.0	3917.8
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	21628.5	0.0	21628.5
	% Fixture	84.7	0.0	84.7
Total	Lumens	25546.2	0.0	25546.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.3	2.3
10°-20°	1266.1	5.0
20°-30°	1636.9	6.4
30°-40°	2202.7	8.6
40°-50°	3512.4	13.7
50°-60°	6203.7	24.3
60°-70°	6824.9	26.7
70°-80°	2855.0	11.2
80°-90°	456.3	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°	25546.2	100.0
0°-180°	25546.2	100.0

Coefficient of Utilization



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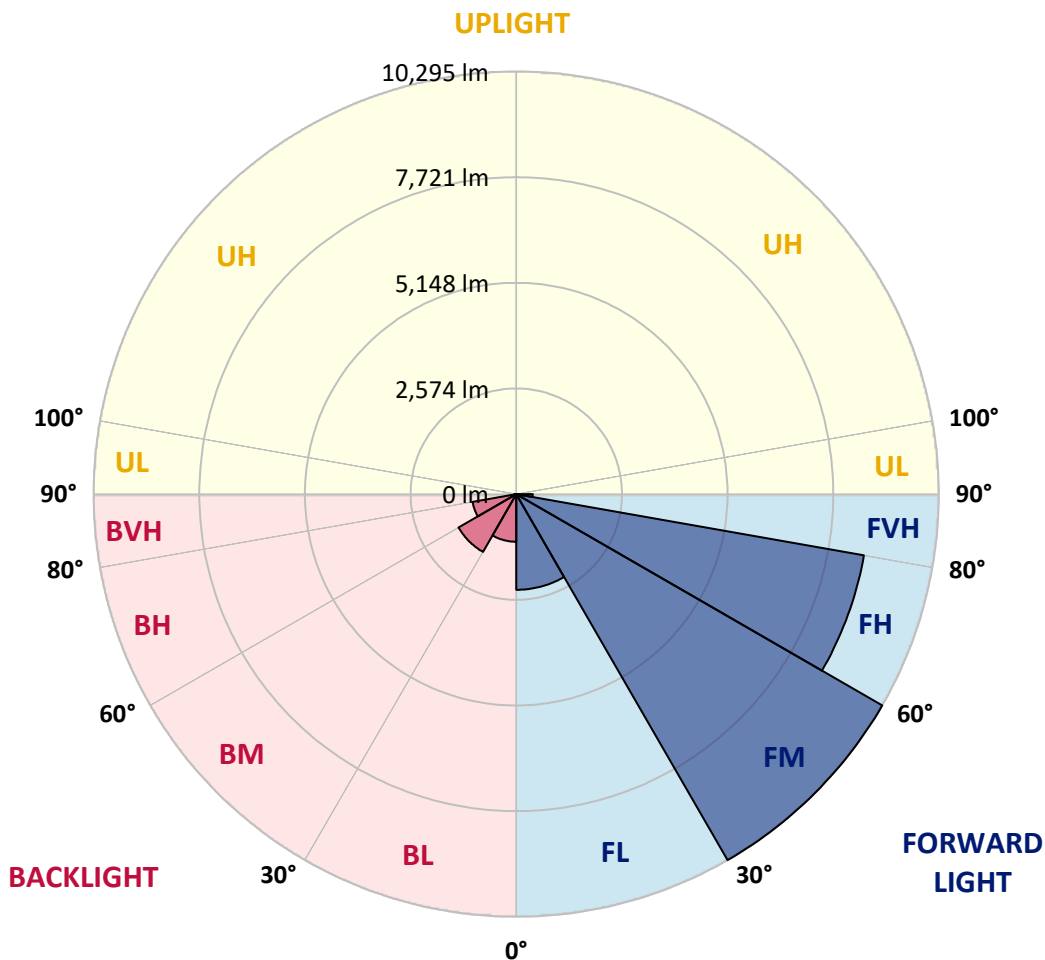
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2331.0	9.1			
FM	(30°-60°)	10295.1	40.3			
FH	(60°-80°)	8599.6	33.7			G4/12000
FVH	(80°-90°)	402.8	1.6			G3/500
BL	(0°-30°)	1160.3	4.5	B3/2500		
BM	(30°-60°)	1623.7	6.4	B2/2500		
BH	(60°-80°)	1080.2	4.2	B3/2500		G3/2500
BVH	(80°-90°)	53.5	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°	7024.8	7024.8	7024.8	7024.8	7024.8	7024.8	7024.8	7024.8	7024.8	7024.8	7024.8
2.5°	7214.6	7226.1	7226.1	7249.0	7171.4	7208.8	7203.1	7168.6	7180.1	7119.7	7059.3
5°	7010.5	7001.9	7047.8	7053.6	7114.0	7131.2	7145.6	7122.6	7128.3	6996.1	6938.6
7.5°	6487.4	6484.5	6562.1	6628.2	6754.7	6872.5	6950.1	6927.1	6958.7	6875.4	6740.3
10°	5866.5	5932.6	6013.1	6079.2	6312.0	6461.5	6662.7	6682.8	6803.5	6783.4	6539.1
12.5°	5400.9	5429.6	5490.0	5679.7	5892.4	6139.6	6427.0	6452.9	6570.7	6628.2	6415.5
15°	5018.6	5044.4	5122.0	5262.9	5501.5	5794.6	6159.7	6225.8	6461.5	6481.6	6254.5
17.5°	4739.8	4759.9	4811.6	4952.5	5147.9	5524.5	5869.4	5987.2	6297.6	6395.4	6087.8
20°	4630.5	4587.4	4616.2	4705.3	4900.7	5191.0	5636.6	5740.0	6136.7	6329.3	5929.7
22.5°	4581.7	4544.3	4561.6	4555.8	4711.0	4918.0	5386.5	5495.7	5984.3	6251.7	5788.9
25°	4619.0	4619.0	4601.8	4587.4	4604.7	4739.8	5116.3	5285.9	5780.3	6185.5	5645.2
27.5°	4820.2	4742.6	4751.3	4690.9	4673.7	4673.7	4995.6	5096.2	5714.2	6148.2	5527.3
30°	4949.6	4987.0	4989.8	4900.7	4811.6	4650.7	4883.5	4981.2	5659.5	6194.2	5458.3
32.5°	5280.1	5262.9	5214.0	5196.8	5064.6	4883.5	4938.1	5004.2	5627.9	6297.6	5478.5
35°	5610.7	5602.1	5604.9	5596.3	5458.3	5191.0	5084.7	5173.8	5685.4	6478.7	5547.4
37.5°	5952.7	5975.7	6073.4	6073.4	5926.9	5636.6	5495.7	5469.8	5895.2	6774.8	5711.3
40°	6294.8	6352.3	6475.9	6671.3	6464.4	6194.2	5967.1	5926.9	6148.2	7171.4	6105.1
42.5°	6622.4	6717.3	6961.6	7251.9	7182.9	6912.8	6610.9	6565.0	6668.4	7760.7	6654.1
45°	7042.1	7122.6	7507.7	7953.3	8048.1	7809.5	7456.0	7418.6	7412.9	8623.0	7410.0
47.5°	7680.2	7766.4	8151.6	8600.0	8893.2	8930.5	8533.9	8493.6	8355.7	9787.1	8516.6
50°	8479.3	8620.1	8944.9	9468.0	9893.4	10293.0	10180.9	10063.0	9792.8	11140.9	9919.3
52.5°	9062.7	9235.2	9675.0	10344.7	11094.9	11730.1	12132.5	12132.5	11511.7	12626.9	11606.5
55°	9218.0	9321.4	9876.2	10844.8	12129.7	13736.4	14578.6	14515.3	13558.2	14190.5	13569.7
57.5°	8600.0	8735.1	9407.7	10422.3	12672.9	15613.3	17007.4	17021.8	15794.4	16007.1	15507.0
60°	6898.4	6941.5	7734.8	9091.5	12149.8	17125.2	20324.4	20379.0	18338.2	17625.4	16492.9
62.5°	4768.5	4906.5	5504.3	6694.3	10065.9	16955.6	23523.5	23793.7	20376.1	18479.0	16648.1
65°	3138.8	3222.1	3541.2	4265.5	7007.6	14696.4	24518.0	25351.5	21934.0	18527.9	15998.5
67.5°	2276.5	2290.8	2385.7	2759.4	4210.9	10568.9	22819.3	23994.9	22517.5	18119.7	14475.1
70°	1839.6	1851.1	1885.6	2124.1	2719.1	6613.8	18611.3	20453.7	20767.0	16185.3	11658.3
72.5°	1494.6	1509.0	1552.1	1776.3	2242.0	3679.1	13609.9	15854.8	16892.4	11974.4	7749.2
75°	1175.6	1187.1	1290.6	1511.9	2106.9	2526.5	9028.3	11227.1	11368.0	6999.0	3627.4
77.5°	804.8	824.9	951.4	1281.9	1983.3	2210.4	5627.9	7191.6	6452.9	2739.2	1247.5
80°	511.6	540.4	615.1	971.5	1753.3	2109.8	3500.9	4294.2	2825.5	937.0	600.7
82.5°	301.8	330.5	405.3	629.5	1376.8	1957.4	2466.2	2687.5	1325.1	480.0	362.2
85°	166.7	186.8	244.3	379.4	807.7	1739.0	1974.7	1928.7	758.8	255.8	227.1
87.5°	54.6	63.2	89.1	152.3	333.4	819.2	1184.2	1112.4	393.8	117.8	89.1
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°	7024.8	7024.8	7024.8	7024.8	7024.8	7024.8	7024.8	7024.8	7024.8	7024.8	7024.8
2.5°	7019.1	7010.5	6881.1	6783.4	6616.7	6478.7	6424.1	6349.4	6346.5	6291.9	6277.5
5°	6849.5	6760.4	6562.1	6372.4	6076.3	5878.0	5696.9	5570.4	5518.7	5406.6	5380.7
7.5°	6631.1	6513.2	6208.5	5852.1	5504.3	5193.9	4912.2	4630.5	4472.4	4417.8	4357.5
10°	6404.0	6197.0	5745.8	5346.2	4860.5	4383.3	3940.7	3544.0	3328.5	3176.1	3110.0
12.5°	6222.9	5947.0	5372.1	4774.3	4133.3	3495.2	2980.7	2563.9	2319.6	2204.6	2152.9
15°	6018.8	5653.8	4964.0	4208.0	3408.9	2684.6	2181.6	1853.9	1756.2	1701.6	1693.0
17.5°	5803.3	5380.7	4521.3	3650.4	2701.9	2020.7	1695.9	1563.6	1520.5	1497.5	1486.0
20°	5602.1	5136.4	4067.2	3029.5	2115.5	1621.1	1468.8	1399.8	1396.9	1408.4	1405.5
22.5°	5317.5	4817.4	3618.8	2454.7	1690.1	1411.3	1313.6	1296.3	1313.6	1327.9	1333.7
25°	5156.5	4555.8	3118.6	1948.8	1396.9	1253.2	1221.6	1215.8	1241.7	1259.0	1256.1
27.5°	4989.8	4285.6	2653.0	1560.8	1224.5	1141.1	1135.4	1141.1	1167.0	1192.8	1190.0
30°	4860.5	4070.0	2216.1	1304.9	1092.2	1060.6	1054.9	1060.6	1075.0	1077.9	1077.9
32.5°	4754.1	3814.2	1845.3	1132.5	1011.8	985.9	991.6	988.8	991.6	994.5	997.4
35°	4690.9	3661.9	1540.6	1026.1	945.7	925.5	922.7	914.0	916.9	919.8	916.9
37.5°	4826.0	3587.2	1299.2	951.4	899.7	882.4	876.7	870.9	862.3	862.3	862.3
40°	5030.1	3546.9	1152.6	902.5	865.2	845.1	827.8	822.1	822.1	824.9	827.8
42.5°	5435.3	3613.0	1052.0	865.2	822.1	799.1	781.8	784.7	793.3	801.9	796.2
45°	6021.7	3814.2	1006.0	836.4	796.2	764.6	753.1	750.2	758.8	773.2	784.7
47.5°	6789.2	4127.5	988.8	810.6	778.9	735.8	721.5	730.1	741.6	761.7	753.1
50°	8045.2	4831.7	1003.1	787.6	753.1	721.5	704.2	695.6	704.2	718.6	724.3
52.5°	9686.5	6110.8	1057.8	776.1	735.8	710.0	681.2	666.8	675.5	687.0	687.0
55°	11649.6	7858.4	1210.1	761.7	707.1	692.7	661.1	632.4	638.1	638.1	635.2
57.5°	13380.0	9177.7	1391.2	741.6	689.8	669.7	629.5	595.0	589.2	592.1	595.0
60°	14156.0	9528.4	1477.4	735.8	689.8	641.0	586.4	551.9	543.2	537.5	537.5
62.5°	14021.0	8921.9	1302.1	710.0	707.1	618.0	546.1	508.8	497.3	485.8	488.6
65°	13204.6	8056.7	1026.1	675.5	710.0	603.6	505.9	468.5	448.4	434.0	431.1
67.5°	11712.9	6878.3	813.4	649.6	681.2	577.7	471.4	428.3	411.0	396.7	390.9
70°	9163.3	5392.2	707.1	615.1	612.2	514.5	431.1	393.8	367.9	350.7	350.7
72.5°	5941.2	3408.9	606.5	546.1	528.9	431.1	373.7	350.7	330.5	316.2	316.2
75°	2690.4	1583.8	488.6	457.0	431.1	344.9	316.2	304.7	287.4	273.1	273.1
77.5°	965.8	675.5	365.0	359.3	321.9	267.3	255.8	247.2	235.7	221.3	221.3
80°	540.4	428.3	273.1	261.6	224.2	198.3	184.0	184.0	178.2	169.6	166.7
82.5°	342.0	278.8	201.2	175.3	146.6	132.2	126.5	123.6	120.7	109.2	106.4
85°	215.6	189.7	132.2	103.5	86.2	66.1	63.2	60.4	54.6	48.9	48.9
87.5°	97.7	109.2	51.7	31.6	23.0	14.4	8.6	2.9	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)