

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: P480911

Luminaire Tested: **IFLD-L-SA7A-740-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480911
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-740-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30276.4 lumens
Efficiency: N/A
Efficacy: 139.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

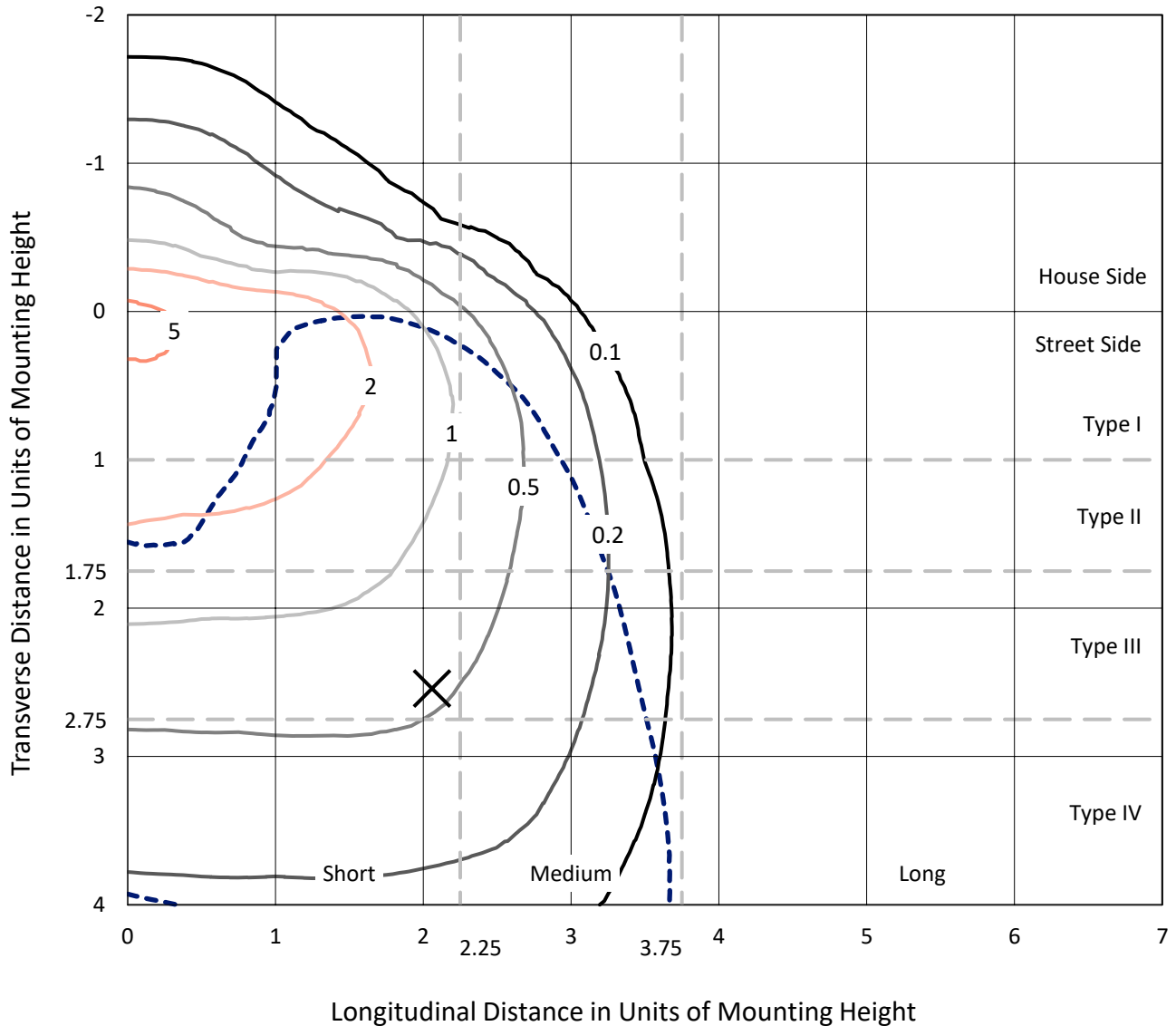
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

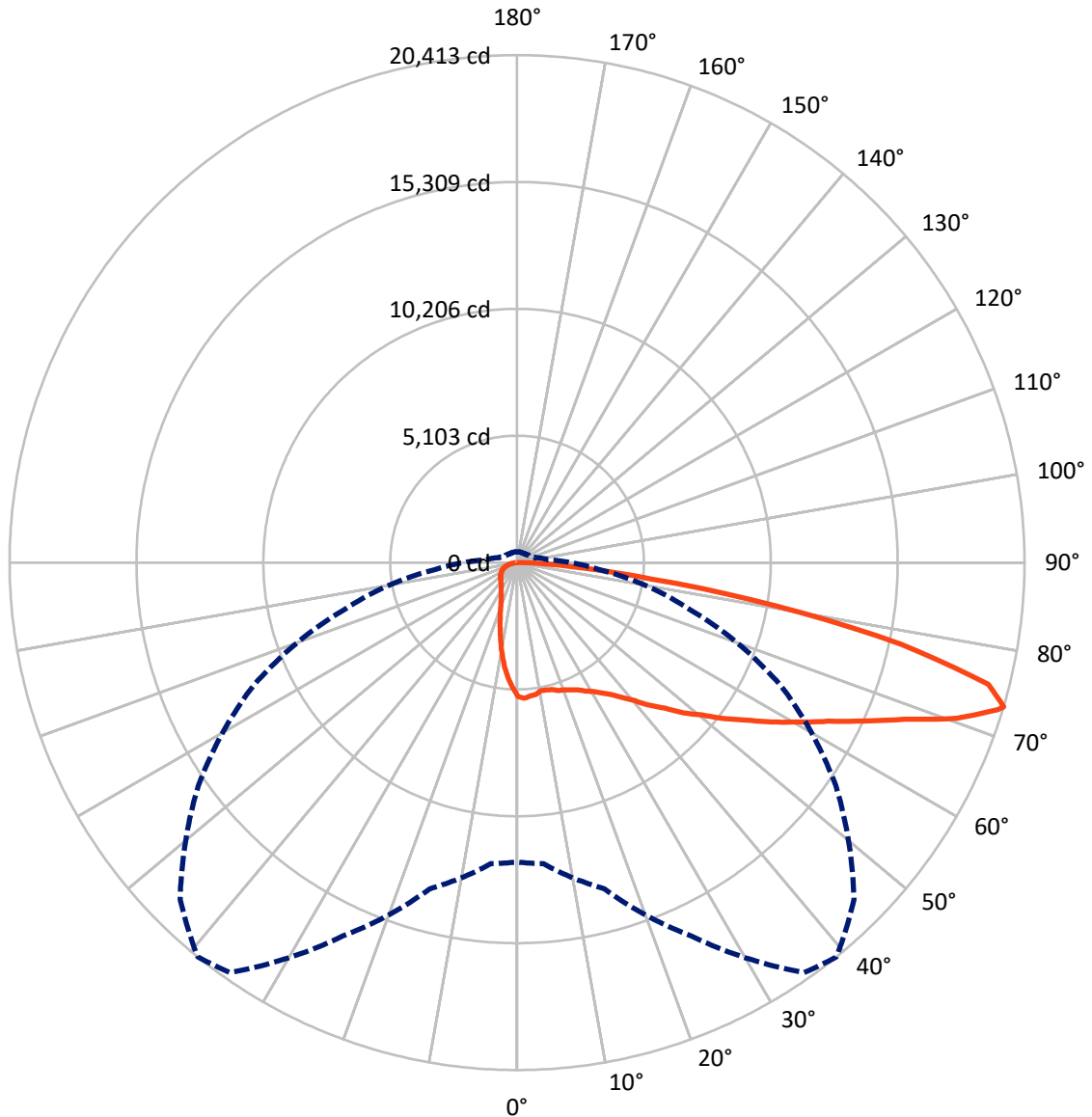
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 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	4256.0	0.0	4256.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	26020.4	0.0	26020.4
	% Fixture	85.9	0.0	85.9
Total	Lumens	30276.4	0.0	30276.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.8	1.5
10°-20°	1189.3	3.9
20°-30°	1817.4	6.0
30°-40°	2649.8	8.8
40°-50°	4004.2	13.2
50°-60°	5798.3	19.2
60°-70°	7367.0	24.3
70°-80°	5972.1	19.7
80°-90°	1010.4	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°	30276.4	100.0
0°-180°	30276.4	100.0

Coefficient of Utilization

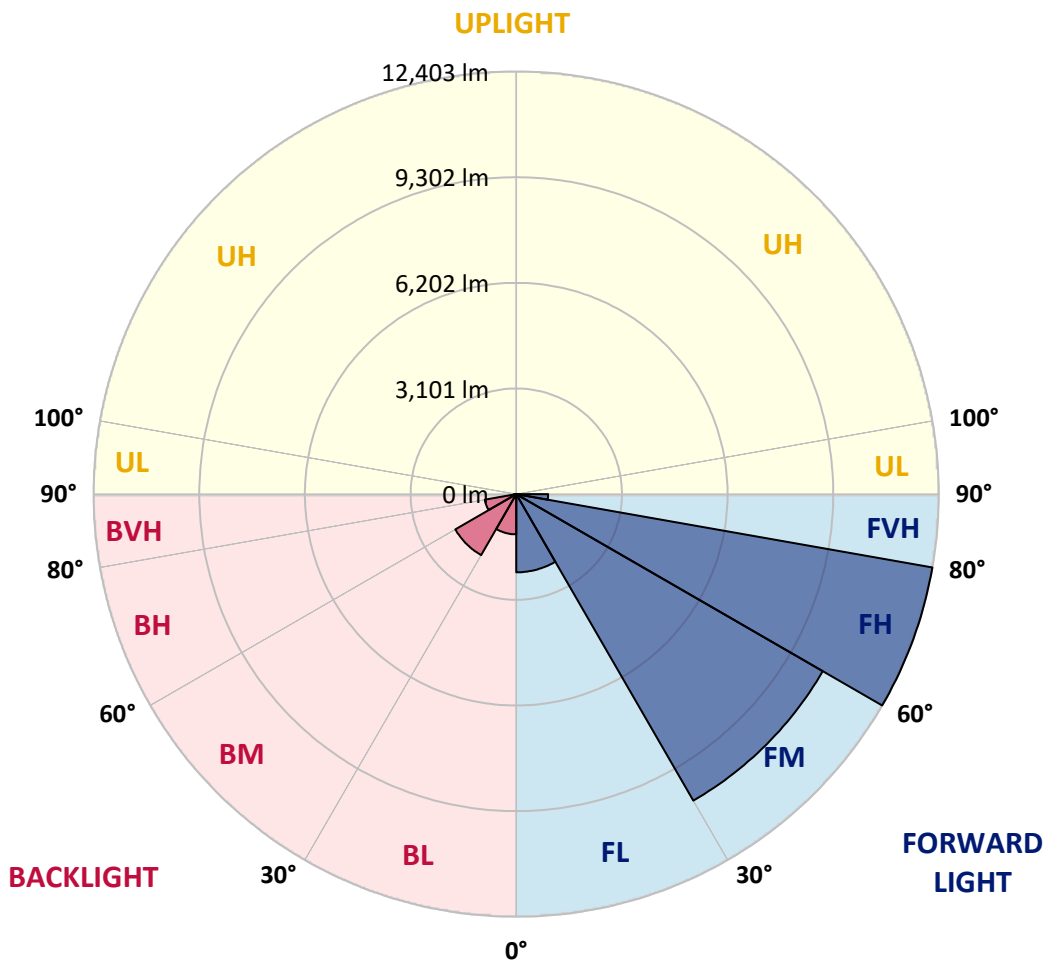


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2294.3	7.6			
FM (30°-60°)	10386.7	34.3			
FH (60°-80°)	12403.0	41.0			G5
FVH (80°-90°)	936.3	3.1			G5
BL (0°-30°)	1180.3	3.9	B3/2500		
BM (30°-60°)	2065.5	6.8	B2/2500		
BH (60°-80°)	936.1	3.1	B2/1000		G2/1000
BVH (80°-90°)	74.1	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°	5389.4	5389.4	5389.4	5389.4	5389.4	5389.4	5389.4	5389.4	5389.4	5389.4	5389.4
2.5°	5518.1	5460.5	5470.7	5450.4	5470.7	5463.9	5453.7	5402.9	5453.7	5402.9	5389.4
5°	5443.6	5443.6	5477.5	5426.6	5433.4	5399.5	5433.4	5396.2	5362.3	5277.6	5253.9
7.5°	5419.9	5416.5	5419.9	5348.7	5382.6	5362.3	5328.4	5287.8	5220.0	5165.8	5087.9
10°	5257.3	5291.1	5253.9	5274.2	5301.3	5240.3	5236.9	5226.8	5196.3	5125.2	5077.7
12.5°	5169.2	5226.8	5247.1	5230.2	5253.9	5260.7	5240.3	5226.8	5189.5	5142.1	5006.6
15°	5206.5	5138.7	5196.3	5308.1	5284.4	5301.3	5304.7	5291.1	5274.2	5186.1	5098.1
17.5°	5216.6	5176.0	5297.9	5321.6	5352.1	5413.1	5372.4	5369.1	5304.7	5243.7	5115.0
20°	5240.3	5223.4	5321.6	5447.0	5450.4	5460.5	5480.8	5430.0	5396.2	5291.1	5094.7
22.5°	5328.4	5386.0	5477.5	5531.6	5562.1	5568.9	5568.9	5467.3	5430.0	5345.3	5189.5
25°	5592.6	5531.6	5660.4	5724.7	5680.7	5670.5	5646.8	5555.4	5514.7	5440.2	5233.6
27.5°	5785.7	5782.3	5856.8	5944.9	5826.4	5850.1	5765.4	5738.3	5646.8	5606.2	5311.5
30°	6049.9	6124.4	6121.1	6148.2	5992.3	6019.4	5911.0	5860.2	5809.4	5833.1	5541.8
32.5°	6388.7	6361.6	6405.6	6385.3	6229.5	6253.2	6124.4	6046.5	6063.5	6134.6	5856.8
35°	6605.5	6578.4	6595.3	6595.3	6547.9	6520.8	6466.6	6365.0	6446.3	6578.4	6209.1
37.5°	6839.2	6873.1	6971.3	6951.0	6890.0	6890.0	6883.2	6812.1	6917.1	7242.3	6771.4
40°	7045.8	7137.3	7198.3	7238.9	7310.0	7310.0	7367.6	7327.0	7516.7	8038.3	7459.1
42.5°	7262.6	7266.0	7598.0	7628.5	7787.7	7855.4	7899.5	7933.3	8289.0	8871.6	8194.2
45°	7540.4	7557.3	7848.6	8082.4	8329.7	8353.4	8519.3	8631.1	9068.1	9782.9	8993.6
47.5°	7906.2	7885.9	8197.5	8570.2	8878.4	9041.0	9240.9	9362.8	9901.4	10772.0	9867.5
50°	8387.2	8326.3	8505.8	9091.8	9454.3	9633.8	9989.5	10192.7	10822.8	11717.1	10467.1
52.5°	8973.3	8871.6	9013.9	9654.1	10060.6	10423.1	10761.8	10988.8	11645.9	12448.8	10910.9
55°	9593.2	9383.1	9423.8	10250.3	10836.3	11178.5	11642.5	11879.7	12550.4	13105.9	11354.6
57.5°	10206.3	10074.2	9992.9	10822.8	11761.1	12089.7	12516.5	12824.8	13393.8	13688.5	11730.6
60°	10721.2	10687.3	10555.2	11710.3	12740.1	13021.2	13468.4	13658.1	14088.3	14227.1	11737.4
62.5°	11144.6	11029.4	11239.4	12425.0	13736.0	14054.4	14545.6	14562.5	14867.4	14562.5	11391.9
65°	11476.6	11483.3	11818.7	13288.8	14887.7	15358.5	15754.9	15710.8	15514.4	14362.6	10575.5
67.5°	11778.0	11906.8	12397.9	14237.3	16368.0	16811.7	17252.1	16669.5	15690.5	13427.7	8980.0
70°	12015.2	12143.9	13180.4	15392.4	18112.5	18762.9	18861.1	17048.9	14880.9	11374.9	6774.8
72.5°	11988.1	12221.8	13624.2	16313.8	19660.6	20222.9	19430.2	15981.8	12397.9	7929.9	3953.1
73°	12045.6	12160.8	13586.9	16571.2	20131.4	20412.6	19166.0	15646.5	11693.4	7113.6	3343.4
75°	10934.6	11324.1	12912.8	16151.2	19626.7	19575.9	17648.4	13038.2	8312.7	3736.3	1619.2
77.5°	8089.1	8336.4	10175.8	13282.1	16110.5	15785.4	13312.5	8333.0	3946.3	1385.5	874.0
80°	3953.1	4146.2	5392.8	7669.1	10534.9	10562.0	8261.9	4335.9	1690.3	782.5	596.2
82.5°	1974.9	2090.0	2591.4	3370.5	5182.7	5430.0	4190.2	2466.0	1046.7	443.8	338.7
85°	1290.6	1371.9	1595.5	1649.7	2198.4	2320.4	1951.2	1924.1	680.9	240.5	274.4
87.5°	857.0	870.6	979.0	833.3	880.7	846.9	941.7	1212.7	199.9	101.6	74.5
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°	5389.4	5389.4	5389.4	5389.4	5389.4	5389.4	5389.4	5389.4	5389.4	5389.4	5389.4
2.5°	5372.4	5325.0	5274.2	5203.1	5152.3	5074.3	5003.2	4972.7	4966.0	4969.3	4935.5
5°	5233.6	5165.8	5064.2	4918.5	4833.8	4705.1	4596.7	4539.1	4478.2	4488.3	4461.2
7.5°	5040.5	4966.0	4810.1	4640.8	4430.7	4247.8	4146.2	4003.9	3922.6	3861.7	3895.5
10°	4979.5	4850.8	4617.0	4383.3	4058.1	3817.6	3583.9	3421.3	3309.5	3201.1	3248.5
12.5°	4949.0	4820.3	4495.1	4149.6	3729.5	3363.7	3035.1	2835.3	2676.1	2581.2	2618.5
15°	4921.9	4762.7	4379.9	3892.1	3421.3	2940.3	2571.0	2306.8	2154.4	2062.9	2073.1
17.5°	4959.2	4732.2	4210.6	3641.5	3082.5	2567.7	2157.8	1883.4	1727.6	1670.0	1656.4
20°	4921.9	4698.3	4044.6	3390.8	2743.8	2212.0	1819.0	1592.1	1483.7	1436.3	1426.1
22.5°	4935.5	4617.0	3871.8	3113.0	2428.8	1913.9	1592.1	1419.3	1334.6	1310.9	1317.7
25°	4999.8	4569.6	3699.1	2808.2	2117.1	1693.7	1446.4	1314.3	1253.3	1229.6	1236.4
27.5°	5047.2	4610.3	3543.2	2520.2	1852.9	1497.2	1324.5	1236.4	1195.8	1178.8	1175.4
30°	5165.8	4634.0	3390.8	2262.8	1636.1	1368.5	1239.8	1168.7	1141.6	1131.4	1128.0
32.5°	5342.0	4678.0	3214.7	2025.7	1476.9	1246.6	1172.0	1111.1	1104.3	1094.1	1097.5
35°	5629.9	4830.5	3018.2	1822.4	1324.5	1165.3	1100.9	1060.3	1060.3	1060.3	1070.4
37.5°	6043.1	5043.9	2842.0	1629.3	1226.2	1094.1	1039.9	1026.4	1019.6	1029.8	1036.5
40°	6575.0	5301.3	2699.8	1476.9	1141.6	1046.7	999.3	992.5	989.1	985.7	992.5
42.5°	7157.6	5629.9	2577.8	1358.4	1080.6	995.9	962.0	955.3	941.7	948.5	958.6
45°	7736.9	6036.4	2469.4	1263.5	1039.9	968.8	921.4	918.0	911.2	907.8	924.8
47.5°	8380.5	6436.1	2435.6	1205.9	1009.4	928.2	894.3	890.9	870.6	867.2	880.7
50°	8881.8	6730.8	2472.8	1178.8	965.4	897.7	874.0	857.0	840.1	823.1	823.1
52.5°	9227.3	6934.0	2499.9	1158.5	941.7	857.0	826.5	819.8	802.8	785.9	779.1
55°	9539.0	7056.0	2506.7	1161.9	918.0	809.6	789.3	785.9	775.7	748.6	741.8
57.5°	9644.0	7005.2	2371.2	1131.4	904.4	779.1	752.0	758.8	745.2	721.5	718.1
60°	9633.8	6652.9	2062.9	1090.7	874.0	745.2	711.4	731.7	731.7	704.6	701.2
62.5°	9047.8	5839.9	1686.9	1012.8	840.1	711.4	674.1	704.6	714.7	697.8	694.4
65°	7831.7	4755.9	1409.2	934.9	789.3	674.1	636.8	670.7	687.6	680.9	677.5
67.5°	6480.1	3638.1	1172.0	833.3	724.9	623.3	592.8	616.5	626.7	630.1	633.4
70°	4579.8	2422.0	979.0	721.5	636.8	569.1	535.2	538.6	535.2	545.4	545.4
72.5°	2489.8	1395.6	796.0	613.1	548.8	494.6	470.9	453.9	453.9	450.5	450.5
73°	2130.7	1253.3	758.8	596.2	525.0	481.0	453.9	440.4	440.4	437.0	433.6
75°	1195.8	918.0	650.4	511.5	453.9	420.0	399.7	379.4	376.0	376.0	376.0
77.5°	785.9	714.7	518.3	409.9	365.8	335.4	328.6	308.3	308.3	308.3	304.9
80°	589.4	562.3	399.7	311.6	281.2	257.4	250.7	237.1	233.7	220.2	223.6
82.5°	392.9	443.8	291.3	220.2	189.7	176.1	176.1	172.8	162.6	145.7	145.7
85°	311.6	362.5	210.0	135.5	111.8	94.8	98.2	94.8	91.5	74.5	71.1
87.5°	57.6	145.7	61.0	37.3	27.1	16.9	16.9	10.2	6.8	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)