

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: P480749

Luminaire Tested: **IFLD-S-SA6E-722-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480749
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-722-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (96) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

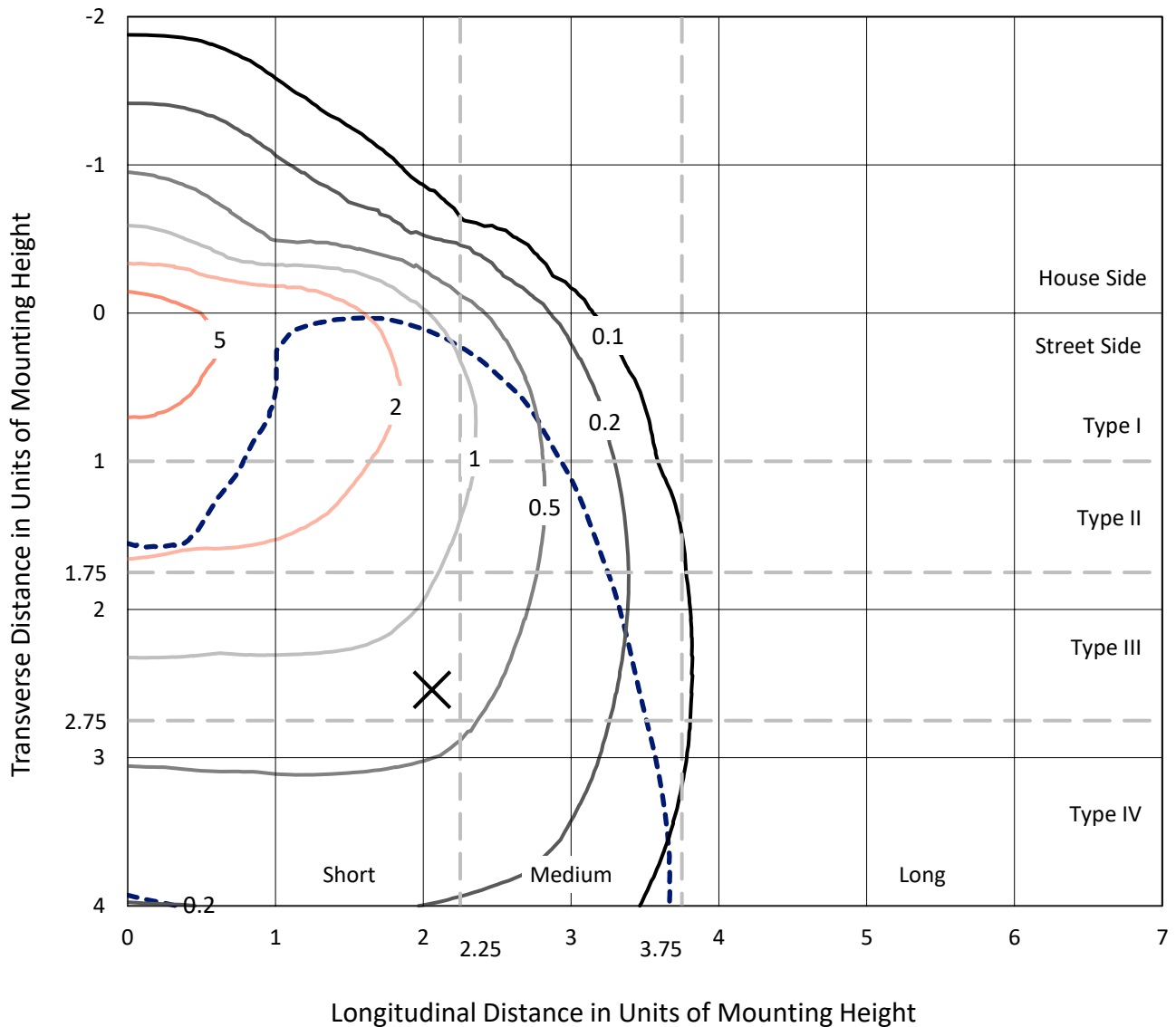
Lumens per Lamp: N/A
Luminaire Lumens: 37700.4 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 464.2
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

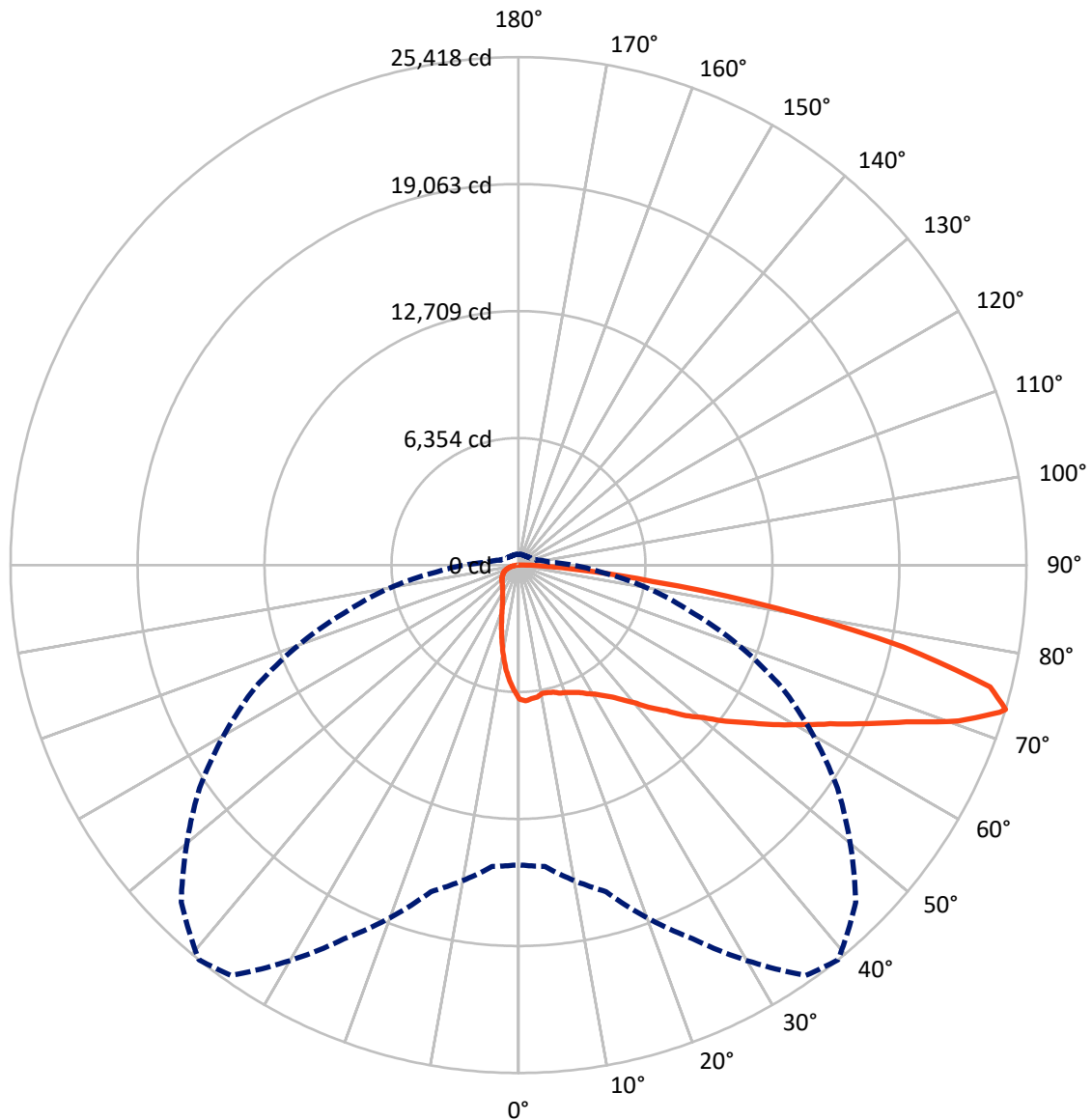
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.5 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	5299.6	0.0	5299.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	32400.8	0.0	32400.8
	% Fixture	85.9	0.0	85.9
Total	Lumens	37700.4	0.0	37700.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.6	1.5
10°-20°	1480.9	3.9
20°-30°	2263.1	6.0
30°-40°	3299.6	8.8
40°-50°	4986.0	13.2
50°-60°	7220.1	19.2
60°-70°	9173.4	24.3
70°-80°	7436.5	19.7
80°-90°	1258.2	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°	37700.4	100.0
0°-180°	37700.4	100.0

Coefficient of Utilization



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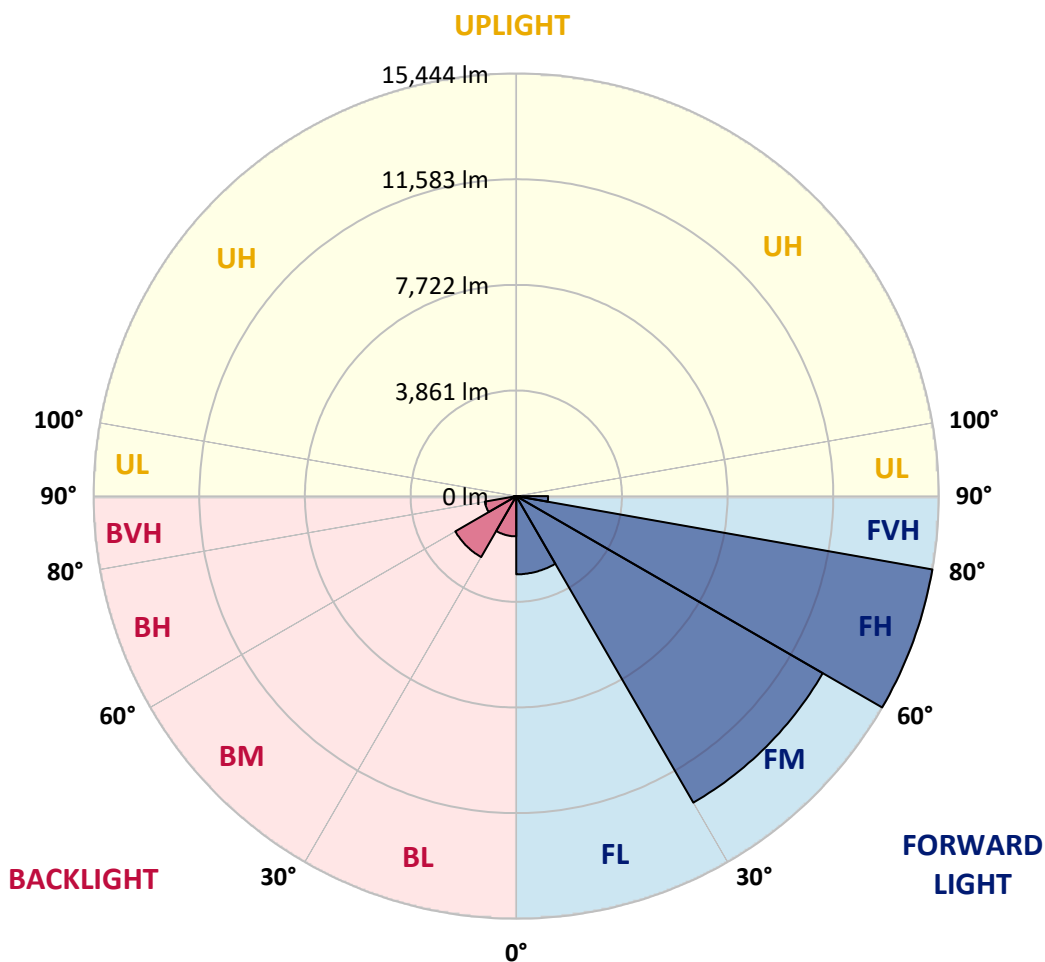
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2856.9	7.6			
FM (30°-60°)	12933.7	34.3			
FH (60°-80°)	15444.4	41.0			G5
FVH (80°-90°)	1165.9	3.1			G5
BL (0°-30°)	1469.7	3.9	B3/2500		
BM (30°-60°)	2572.0	6.8	B3/5000		
BH (60°-80°)	1165.6	3.1	B3/2500		G3/2500
BVH (80°-90°)	92.3	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°	6710.9	6710.9	6710.9	6710.9	6710.9	6710.9	6710.9	6710.9	6710.9	6710.9	6710.9
2.5°	6871.2	6799.5	6812.1	6786.8	6812.1	6803.7	6791.0	6727.8	6791.0	6727.8	6710.9
5°	6778.4	6778.4	6820.6	6757.3	6765.7	6723.6	6765.7	6719.3	6677.2	6571.7	6542.2
7.5°	6748.9	6744.6	6748.9	6660.3	6702.5	6677.2	6635.0	6584.4	6500.0	6432.5	6335.5
10°	6546.4	6588.6	6542.2	6567.5	6601.2	6525.3	6521.1	6508.4	6470.5	6381.9	6322.8
12.5°	6436.7	6508.4	6533.7	6512.7	6542.2	6550.6	6525.3	6508.4	6462.0	6403.0	6234.3
15°	6483.1	6398.8	6470.5	6609.7	6580.1	6601.2	6605.5	6588.6	6567.5	6457.8	6348.2
17.5°	6495.8	6445.2	6597.0	6626.5	6664.5	6740.4	6689.8	6685.6	6605.5	6529.5	6369.2
20°	6525.3	6504.2	6626.5	6782.6	6786.8	6799.5	6824.8	6761.5	6719.3	6588.6	6343.9
22.5°	6635.0	6706.7	6820.6	6888.1	6926.0	6934.5	6934.5	6807.9	6761.5	6656.1	6462.0
25°	6964.0	6888.1	7048.3	7128.5	7073.7	7061.0	7031.5	6917.6	6867.0	6774.2	6516.9
27.5°	7204.4	7200.2	7293.0	7402.7	7255.0	7284.6	7179.1	7145.4	7031.5	6980.9	6613.9
30°	7533.4	7626.2	7622.0	7655.7	7461.7	7495.5	7360.5	7297.2	7233.9	7263.5	6900.7
32.5°	7955.2	7921.5	7976.3	7951.0	7757.0	7786.5	7626.2	7529.2	7550.3	7638.9	7293.0
35°	8225.2	8191.4	8212.5	8212.5	8153.5	8119.7	8052.2	7925.7	8026.9	8191.4	7731.7
37.5°	8516.2	8558.4	8680.7	8655.4	8579.5	8579.5	8571.1	8482.5	8613.2	9018.2	8431.9
40°	8773.5	8887.4	8963.3	9014.0	9102.5	9102.5	9174.2	9123.6	9359.8	10009.4	9288.1
42.5°	9043.5	9047.7	9461.1	9499.0	9697.3	9781.6	9836.5	9878.7	10321.5	11047.0	10203.4
45°	9389.4	9410.4	9773.2	10064.2	10372.2	10401.7	10608.4	10747.6	11291.7	12181.7	11198.9
47.5°	9844.9	9819.6	10207.7	10671.6	11055.5	11257.9	11506.8	11658.7	12329.3	13413.4	12287.2
50°	10443.9	10367.9	10591.5	11321.2	11772.6	11996.1	12439.0	12692.1	13476.6	14590.2	13033.7
52.5°	11173.6	11047.0	11224.2	12021.4	12527.6	12978.9	13400.7	13683.3	14501.6	15501.3	13586.3
55°	11945.5	11684.0	11734.6	12763.8	13493.5	13919.5	14497.4	14792.7	15627.8	16319.6	14138.9
57.5°	12709.0	12544.5	12443.2	13476.6	14645.0	15054.2	15585.7	15969.5	16678.1	17045.1	14607.1
60°	13350.1	13307.9	13143.4	14581.8	15864.0	16214.1	16770.9	17007.1	17542.8	17715.8	14615.5
62.5°	13877.4	13733.9	13995.5	15471.8	17104.2	17500.6	18112.3	18133.4	18513.0	18133.4	14185.3
65°	14290.7	14299.2	14716.7	16547.4	18538.3	19124.6	19618.1	19563.3	19318.6	17884.5	13168.7
67.5°	14666.1	14826.4	15438.0	17728.4	20381.6	20934.1	21482.5	20757.0	19538.0	16720.3	11182.0
70°	14961.4	15121.7	16412.4	19166.8	22553.9	23363.7	23486.0	21229.4	18529.9	14164.2	8436.1
72.5°	14927.6	15218.7	16965.0	20314.1	24481.5	25181.7	24194.7	19900.7	15438.0	9874.4	4922.5
73°	14999.4	15142.8	16918.6	20634.7	25067.8	25417.9	23865.7	19483.1	14560.7	8857.9	4163.2
75°	13615.8	14100.9	16079.2	20111.6	24439.3	24376.1	21976.0	16235.2	10351.1	4652.5	2016.2
77.5°	10072.7	10380.6	12671.0	16538.9	20061.0	19656.1	16576.9	10376.4	4914.0	1725.2	1088.3
80°	4922.5	5162.9	6715.1	9549.6	13118.1	13151.8	10287.8	5399.1	2104.8	974.4	742.4
82.5°	2459.1	2602.5	3226.8	4197.0	6453.6	6761.5	5217.7	3070.7	1303.4	552.6	421.8
85°	1607.1	1708.3	1986.7	2054.2	2737.5	2889.4	2429.6	2395.8	847.8	299.5	341.7
87.5°	1067.2	1084.0	1219.0	1037.6	1096.7	1054.5	1172.6	1510.1	248.9	126.5	92.8
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°	6710.9	6710.9	6710.9	6710.9	6710.9	6710.9	6710.9	6710.9	6710.9	6710.9	6710.9
2.5°	6689.8	6630.8	6567.5	6478.9	6415.6	6318.6	6230.0	6192.1	6183.6	6187.9	6145.7
5°	6516.9	6432.5	6306.0	6124.6	6019.1	5858.9	5723.9	5652.2	5576.2	5588.9	5555.2
7.5°	6276.4	6183.6	5989.6	5778.7	5517.2	5289.4	5162.9	4985.7	4884.5	4808.6	4850.7
10°	6200.5	6040.2	5749.2	5458.1	5053.2	4753.7	4462.7	4260.2	4121.0	3986.0	4045.1
12.5°	6162.6	6002.3	5597.3	5167.1	4644.1	4188.5	3779.4	3530.5	3332.3	3214.1	3260.5
15°	6128.8	5930.6	5453.9	4846.5	4260.2	3661.3	3201.5	2872.5	2682.7	2568.8	2581.4
17.5°	6175.2	5892.6	5243.0	4534.4	3838.4	3197.3	2686.9	2345.2	2151.2	2079.5	2062.6
20°	6128.8	5850.4	5036.3	4222.3	3416.6	2754.4	2265.1	1982.5	1847.5	1788.4	1775.8
22.5°	6145.7	5749.2	4821.2	3876.4	3024.3	2383.2	1982.5	1767.4	1661.9	1632.4	1640.8
25°	6225.8	5690.1	4606.1	3496.8	2636.3	2109.0	1801.1	1636.6	1560.7	1531.1	1539.6
27.5°	6284.9	5740.8	4412.1	3138.2	2307.3	1864.4	1649.3	1539.6	1489.0	1467.9	1463.7
30°	6432.5	5770.3	4222.3	2817.7	2037.3	1704.1	1543.8	1455.2	1421.5	1408.8	1404.6
32.5°	6651.8	5825.1	4002.9	2522.4	1839.1	1552.2	1459.4	1383.5	1375.1	1362.4	1366.6
35°	7010.4	6014.9	3758.3	2269.3	1649.3	1451.0	1370.9	1320.2	1320.2	1320.2	1332.9
37.5°	7525.0	6280.7	3538.9	2028.9	1526.9	1362.4	1294.9	1278.1	1269.6	1282.3	1290.7
40°	8187.2	6601.2	3361.8	1839.1	1421.5	1303.4	1244.3	1235.9	1231.7	1227.4	1235.9
42.5°	8912.7	7010.4	3209.9	1691.4	1345.6	1240.1	1197.9	1189.5	1172.6	1181.1	1193.7
45°	9634.0	7516.5	3075.0	1573.3	1294.9	1206.4	1147.3	1143.1	1134.7	1130.4	1151.5
47.5°	10435.4	8014.3	3032.8	1501.6	1257.0	1155.7	1113.6	1109.3	1084.0	1079.8	1096.7
50°	11059.7	8381.2	3079.2	1467.9	1202.1	1117.8	1088.3	1067.2	1046.1	1025.0	1025.0
52.5°	11489.9	8634.3	3112.9	1442.6	1172.6	1067.2	1029.2	1020.8	999.7	978.6	970.1
55°	11878.0	8786.2	3121.3	1446.8	1143.1	1008.1	982.8	978.6	965.9	932.2	923.8
57.5°	12008.8	8722.9	2952.6	1408.8	1126.2	970.1	936.4	944.8	928.0	898.4	894.2
60°	11996.1	8284.2	2568.8	1358.2	1088.3	928.0	885.8	911.1	911.1	877.4	873.1
62.5°	11266.4	7271.9	2100.6	1261.2	1046.1	885.8	839.4	877.4	890.0	868.9	864.7
65°	9752.1	5922.1	1754.7	1164.2	982.8	839.4	793.0	835.2	856.3	847.8	843.6
67.5°	8069.1	4530.2	1459.4	1037.6	902.7	776.1	738.2	767.7	780.3	784.6	788.8
70°	5702.8	3015.9	1219.0	898.4	793.0	708.6	666.5	670.7	666.5	679.1	679.1
72.5°	3100.3	1737.8	991.2	763.5	683.3	615.8	586.3	565.2	565.2	561.0	561.0
73°	2653.1	1560.7	944.8	742.4	653.8	599.0	565.2	548.3	548.3	544.1	539.9
75°	1489.0	1143.1	809.9	636.9	565.2	523.0	497.7	472.4	468.2	468.2	468.2
77.5°	978.6	890.0	645.4	510.4	455.5	417.6	409.1	383.8	383.8	383.8	379.6
80°	733.9	700.2	497.7	388.1	350.1	320.6	312.1	295.3	291.0	274.2	278.4
82.5°	489.3	552.6	362.8	274.2	236.2	219.3	219.3	215.1	202.5	181.4	181.4
85°	388.1	451.3	261.5	168.7	139.2	118.1	122.3	118.1	113.9	92.8	88.6
87.5°	71.7	181.4	75.9	46.4	33.7	21.1	21.1	12.7	8.4	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)