

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: P480747

Luminaire Tested: **IFLD-S-SA6C-722-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480747
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-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

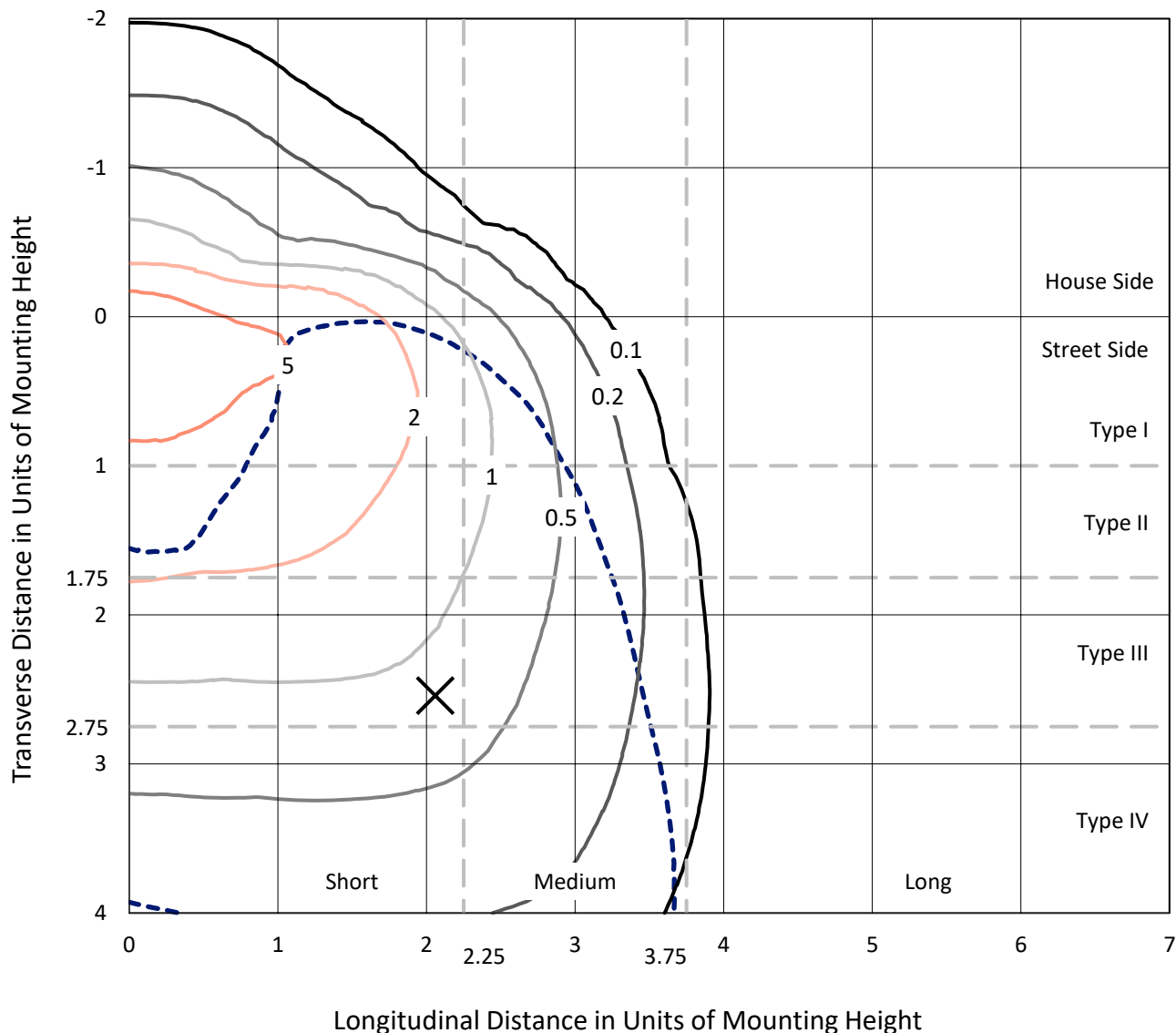
Lumens per Lamp: N/A
Luminaire Lumens: 29605.6 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 321.5
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

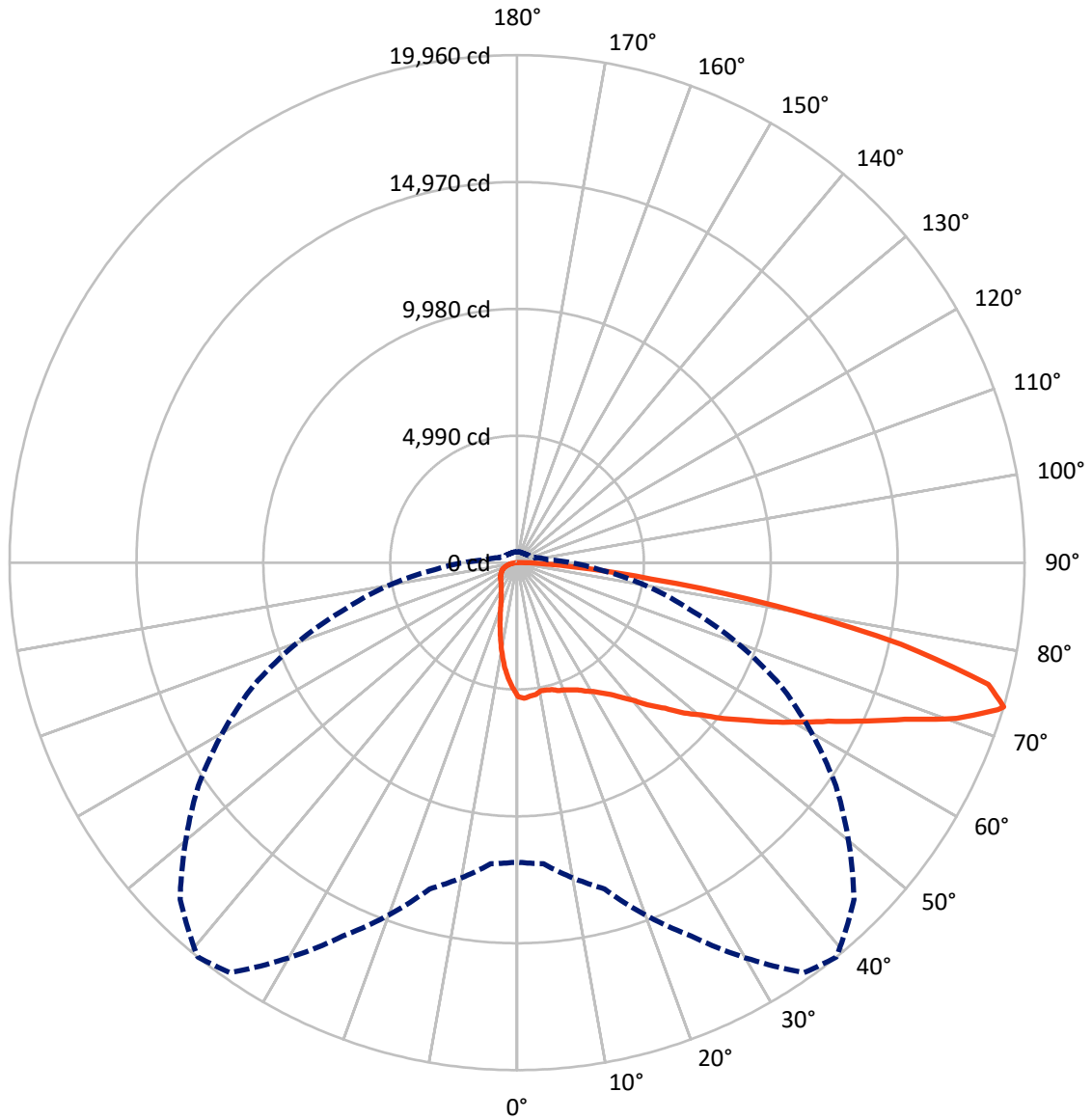
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	4161.7	0.0	4161.7
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	25443.9	0.0	25443.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	29605.6	0.0	29605.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	457.5	1.5
10°-20°	1163.0	3.9
20°-30°	1777.1	6.0
30°-40°	2591.1	8.8
40°-50°	3915.5	13.2
50°-60°	5669.8	19.2
60°-70°	7203.8	24.3
70°-80°	5839.8	19.7
80°-90°	988.1	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°	29605.6	100.0
0°-180°	29605.6	100.0

Coefficient of Utilization



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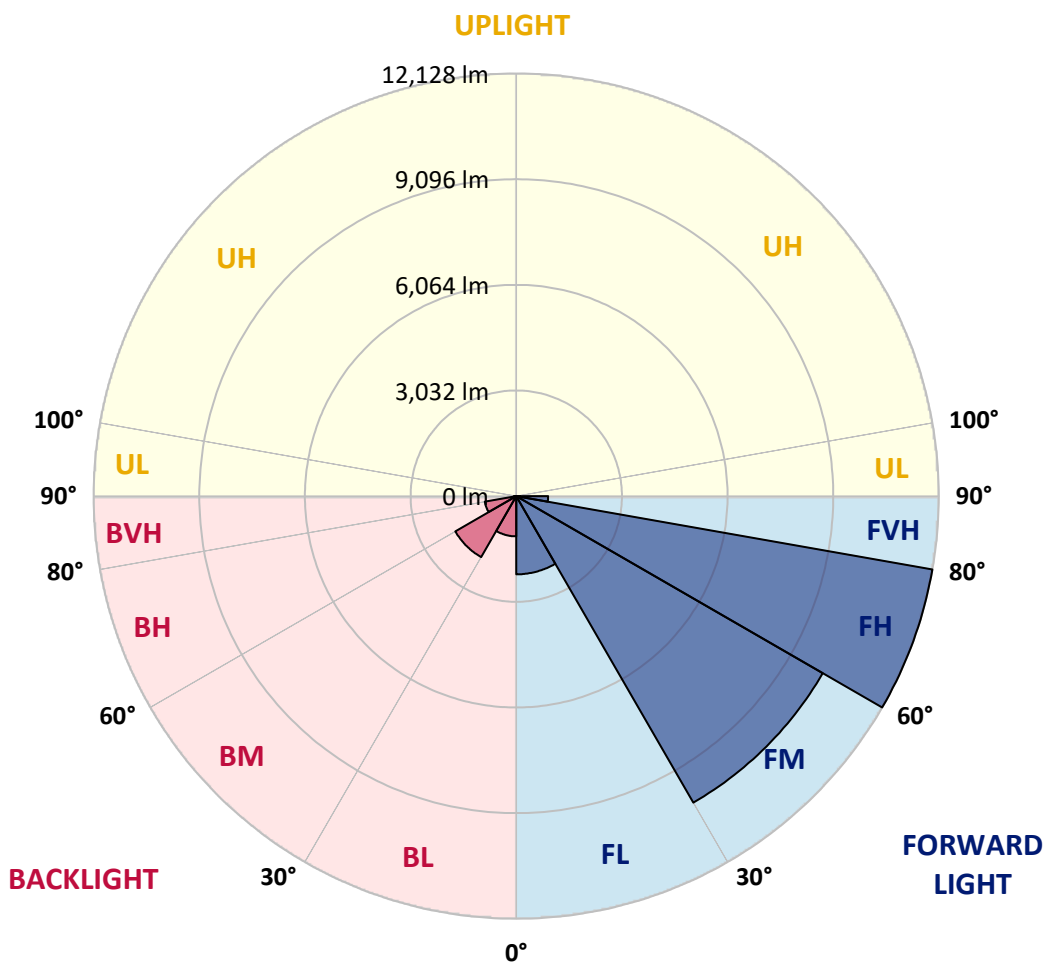
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2243.5	7.6			
FM (30°-60°)	10156.6	34.3			
FH (60°-80°)	12128.2	41.0			G5
FVH (80°-90°)	915.6	3.1			G5
BL (0°-30°)	1154.1	3.9	B3/2500		
BM (30°-60°)	2019.8	6.8	B2/2500		
BH (60°-80°)	915.3	3.1	B2/1000		G2/1000
BVH (80°-90°)	72.5	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5270.0	5270.0	5270.0	5270.0	5270.0	5270.0	5270.0	5270.0	5270.0	5270.0	5270.0
2.5°	5395.8	5339.5	5349.5	5329.6	5349.5	5342.8	5332.9	5283.2	5332.9	5283.2	5270.0
5°	5323.0	5323.0	5356.1	5306.4	5313.0	5279.9	5313.0	5276.6	5243.5	5160.7	5137.5
7.5°	5299.8	5296.5	5299.8	5230.2	5263.4	5243.5	5210.4	5170.6	5104.4	5051.4	4975.2
10°	5140.8	5173.9	5137.5	5157.4	5183.9	5124.2	5120.9	5111.0	5081.2	5011.6	4965.2
12.5°	5054.7	5111.0	5130.9	5114.3	5137.5	5144.1	5124.2	5111.0	5074.5	5028.2	4895.7
15°	5091.1	5024.9	5081.2	5190.5	5167.3	5183.9	5187.2	5173.9	5157.4	5071.2	4985.1
17.5°	5101.0	5061.3	5180.5	5203.7	5233.5	5293.2	5253.4	5250.1	5187.2	5127.5	5001.7
20°	5124.2	5107.7	5203.7	5326.3	5329.6	5339.5	5359.4	5309.7	5276.6	5173.9	4981.8
22.5°	5210.4	5266.7	5356.1	5409.1	5438.9	5445.5	5445.5	5346.2	5309.7	5226.9	5074.5
25°	5468.7	5409.1	5535.0	5597.9	5554.8	5544.9	5521.7	5432.3	5392.5	5319.7	5117.6
27.5°	5657.5	5654.2	5727.1	5813.2	5697.3	5720.5	5637.7	5611.2	5521.7	5482.0	5193.8
30°	5915.9	5988.8	5985.4	6011.9	5859.6	5886.1	5780.1	5730.4	5680.7	5703.9	5419.0
32.5°	6247.1	6220.6	6263.7	6243.8	6091.4	6114.6	5988.8	5912.6	5929.1	5998.7	5727.1
35°	6459.1	6432.6	6449.2	6449.2	6402.8	6376.3	6323.3	6223.9	6303.4	6432.6	6071.6
37.5°	6687.7	6720.8	6816.9	6797.0	6737.4	6737.4	6730.7	6661.2	6763.9	7081.8	6621.4
40°	6889.7	6979.2	7038.8	7078.5	7148.1	7148.1	7204.4	7164.7	7350.1	7860.2	7293.8
42.5°	7101.7	7105.0	7429.6	7459.5	7615.1	7681.4	7724.4	7757.6	8105.4	8675.1	8012.6
45°	7373.3	7389.9	7674.8	7903.3	8145.1	8168.3	8330.6	8439.9	8867.2	9566.1	8794.3
47.5°	7731.1	7711.2	8015.9	8380.3	8681.7	8840.7	9036.1	9155.4	9682.1	10533.3	9648.9
50°	8201.4	8141.8	8317.4	8890.4	9244.8	9420.4	9768.2	9966.9	10583.0	11457.5	10235.2
52.5°	8774.5	8675.1	8814.2	9440.2	9837.7	10192.2	10523.4	10745.3	11387.9	12173.0	10669.1
55°	9380.6	9175.3	9215.0	10023.2	10596.3	10930.8	11384.6	11616.5	12272.3	12815.6	11103.1
57.5°	9980.2	9851.0	9771.5	10583.0	11500.5	11821.8	12239.2	12540.6	13097.1	13385.3	11470.7
60°	10483.6	10450.5	10321.3	11450.9	12457.8	12732.7	13170.0	13355.5	13776.1	13911.9	11477.4
62.5°	10897.7	10785.1	10990.4	12149.8	13431.7	13743.0	14223.3	14239.9	14538.0	14239.9	11139.5
65°	11222.3	11228.9	11556.9	12994.4	14557.9	15018.3	15405.8	15362.8	15170.6	14044.4	10341.2
67.5°	11517.1	11643.0	12123.3	13921.9	16005.4	16439.3	16869.9	16300.2	15342.9	13130.2	8781.1
70°	11749.0	11874.8	12888.4	15051.4	17711.2	18347.2	18443.3	16671.1	14551.2	11122.9	6624.7
72.5°	11722.5	11951.0	13322.3	15952.4	19225.0	19774.8	18999.7	15627.8	12123.3	7754.3	3865.5
73°	11778.8	11891.4	13285.9	16204.1	19685.4	19960.3	18741.4	15299.8	11434.3	6956.0	3269.3
75°	10692.3	11073.2	12626.7	15793.4	19191.9	19142.2	17257.4	12749.3	8128.6	3653.5	1583.3
77.5°	7909.9	8151.7	9950.4	12987.8	15753.6	15435.6	13017.6	8148.4	3858.9	1354.8	854.6
80°	3865.5	4054.3	5273.3	7499.2	10301.5	10328.0	8078.9	4239.8	1652.9	765.2	583.0
82.5°	1931.1	2043.7	2534.0	3295.8	5067.9	5309.7	4097.4	2411.4	1023.5	433.9	331.2
85°	1262.0	1341.5	1560.1	1613.1	2149.7	2269.0	1907.9	1881.4	665.8	235.2	268.3
87.5°	838.0	851.3	957.3	814.8	861.2	828.1	920.8	1185.8	195.4	99.4	72.9
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°	5270.0	5270.0	5270.0	5270.0	5270.0	5270.0	5270.0	5270.0	5270.0	5270.0	5270.0
2.5°	5253.4	5207.0	5157.4	5087.8	5038.1	4961.9	4892.4	4862.6	4855.9	4859.2	4826.1
5°	5117.6	5051.4	4952.0	4809.6	4726.7	4600.9	4494.9	4438.6	4379.0	4388.9	4362.4
7.5°	4928.8	4855.9	4703.6	4537.9	4332.6	4153.7	4054.3	3915.2	3835.7	3776.1	3809.2
10°	4869.2	4743.3	4514.8	4286.2	3968.2	3733.0	3504.5	3345.5	3236.2	3130.2	3176.6
12.5°	4839.4	4713.5	4395.5	4057.7	3646.9	3289.2	2967.9	2772.5	2616.8	2524.0	2560.5
15°	4812.9	4657.2	4282.9	3805.9	3345.5	2875.1	2514.1	2255.7	2106.7	2017.2	2027.2
17.5°	4849.3	4627.4	4117.3	3560.8	3014.3	2510.8	2110.0	1841.7	1689.3	1633.0	1619.7
20°	4812.9	4594.3	3955.0	3315.7	2683.0	2163.0	1778.7	1556.8	1450.8	1404.4	1394.5
22.5°	4826.1	4514.8	3786.0	3044.1	2375.0	1871.5	1556.8	1387.9	1305.1	1281.9	1288.5
25°	4889.1	4468.4	3617.1	2746.0	2070.2	1656.2	1414.4	1285.2	1225.6	1202.4	1209.0
27.5°	4935.4	4508.1	3464.7	2464.4	1811.9	1464.1	1295.1	1209.0	1169.3	1152.7	1149.4
30°	5051.4	4531.3	3315.7	2212.7	1599.9	1338.2	1212.3	1142.8	1116.3	1106.3	1103.0
32.5°	5223.6	4574.4	3143.4	1980.8	1444.2	1219.0	1146.1	1086.5	1079.8	1069.9	1073.2
35°	5505.2	4723.4	2951.3	1782.1	1295.1	1139.5	1076.5	1036.8	1036.8	1036.8	1046.7
37.5°	5909.3	4932.1	2779.1	1593.2	1199.1	1069.9	1016.9	1003.6	997.0	1007.0	1013.6
40°	6429.3	5183.9	2640.0	1444.2	1116.3	1023.5	977.1	970.5	967.2	963.9	970.5
42.5°	6999.0	5505.2	2520.7	1328.3	1056.6	973.8	940.7	934.1	920.8	927.5	937.4
45°	7565.4	5902.6	2414.7	1235.5	1016.9	947.3	901.0	897.7	891.0	887.7	904.3
47.5°	8194.8	6293.5	2381.6	1179.2	987.1	907.6	874.5	871.2	851.3	848.0	861.2
50°	8685.0	6581.7	2418.0	1152.7	944.0	877.8	854.6	838.0	821.5	804.9	804.9
52.5°	9022.9	6780.4	2444.5	1132.8	920.8	838.0	808.2	801.6	785.0	768.5	761.8
55°	9327.6	6899.7	2451.2	1136.1	897.7	791.7	771.8	768.5	758.5	732.0	725.4
57.5°	9430.3	6850.0	2318.7	1106.3	884.4	761.8	735.3	742.0	728.7	705.5	702.2
60°	9420.4	6505.5	2017.2	1066.6	854.6	728.7	695.6	715.5	715.5	689.0	685.7
62.5°	8847.3	5710.5	1649.6	990.4	821.5	695.6	659.2	689.0	698.9	682.3	679.0
65°	7658.2	4650.6	1377.9	914.2	771.8	659.2	622.7	655.8	672.4	665.8	662.5
67.5°	6336.6	3557.5	1146.1	814.8	708.8	609.5	579.7	602.9	612.8	616.1	619.4
70°	4478.3	2368.3	957.3	705.5	622.7	556.5	523.4	526.7	523.4	533.3	533.3
72.5°	2434.6	1364.7	778.4	599.5	536.6	483.6	460.4	443.9	443.9	440.5	440.5
73°	2083.5	1225.6	742.0	583.0	513.4	470.4	443.9	430.6	430.6	427.3	424.0
75°	1169.3	897.7	636.0	500.2	443.9	410.7	390.9	371.0	367.7	367.7	367.7
77.5°	768.5	698.9	506.8	400.8	357.7	327.9	321.3	301.4	301.4	301.4	298.1
80°	576.4	549.9	390.9	304.7	274.9	251.7	245.1	231.9	228.6	215.3	218.6
82.5°	384.2	433.9	284.9	215.3	185.5	172.2	172.2	168.9	159.0	142.4	142.4
85°	304.7	354.4	205.4	132.5	109.3	92.7	96.1	92.7	89.4	72.9	69.6
87.5°	56.3	142.4	59.6	36.4	26.5	16.6	16.6	9.9	6.6	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)