

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: P483071

Luminaire Tested: **IFLD-S-SA3B-722-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483071
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-722-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

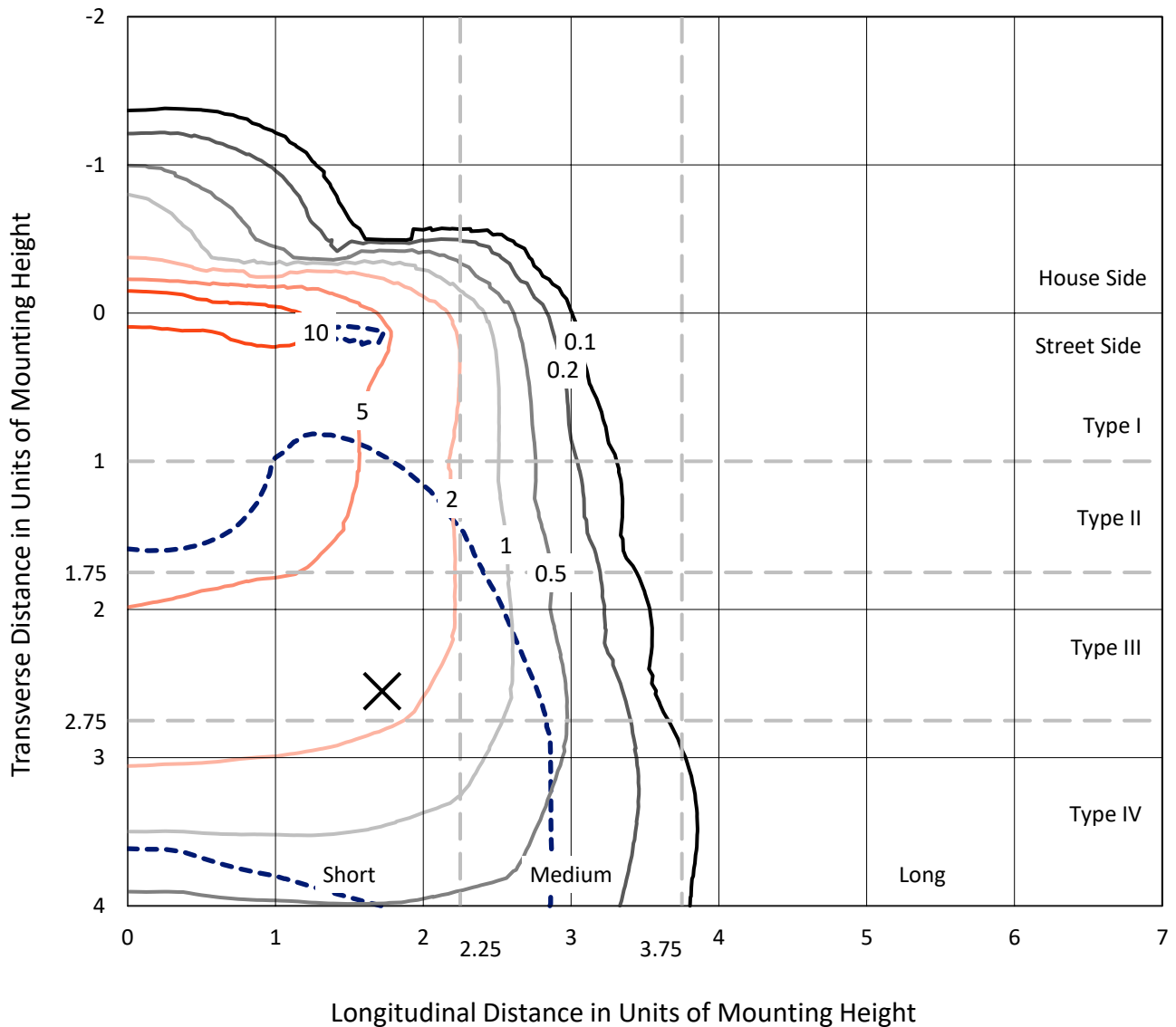
Lumens per Lamp: N/A
Luminaire Lumens: 9063.1 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.4
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

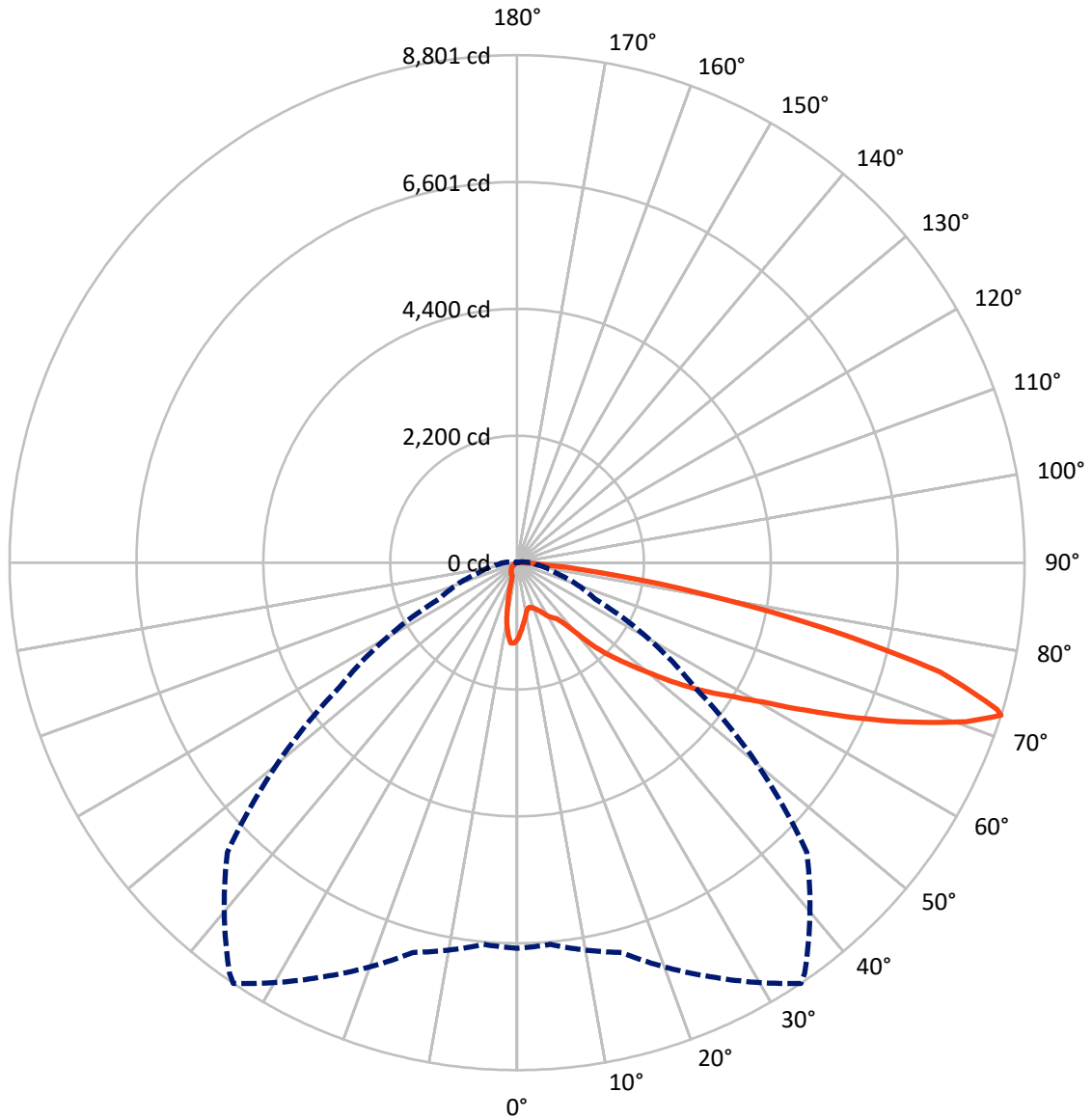
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	927.8	0.0	927.8
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	8135.3	0.0	8135.3
	% Fixture	89.8	0.0	89.8
Total	Lumens	9063.1	0.0	9063.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.1	1.3
10°-20°	260.6	2.9
20°-30°	393.3	4.3
30°-40°	638.3	7.0
40°-50°	1200.3	13.2
50°-60°	1962.5	21.7
60°-70°	2608.9	28.8
70°-80°	1747.2	19.3
80°-90°	136.9	1.5
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°	9063.1	100.0
0°-180°	9063.1	100.0



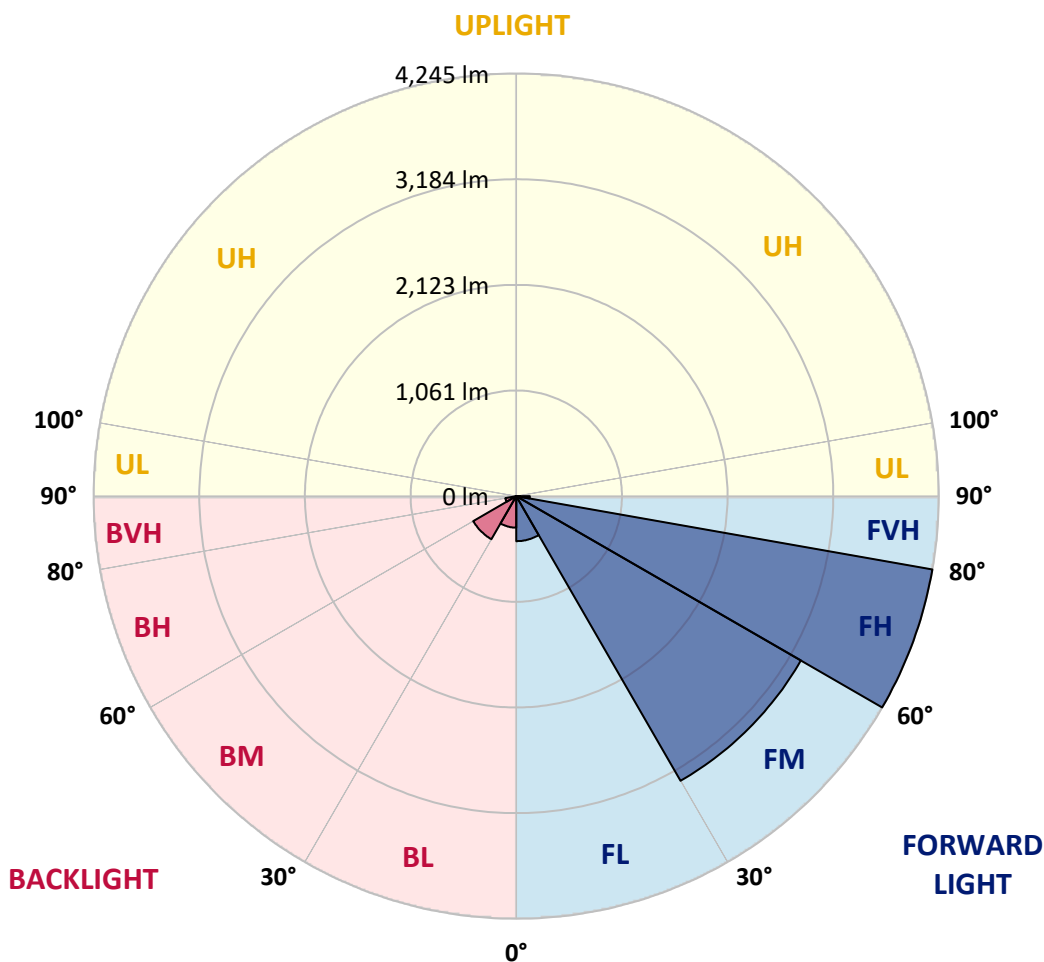
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	452.4	5.0			
FM (30°-60°)	3301.7	36.4			
FH (60°-80°)	4245.1	46.8			G2/5000
FVH (80°-90°)	136.1	1.5			G2/225
BL (0°-30°)	316.6	3.5	B1/500		
BM (30°-60°)	499.5	5.5	B1/1000		
BH (60°-80°)	110.9	1.2	B1/500		G1/500
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1325.9	1325.9	1325.9	1325.9	1325.9	1325.9	1325.9	1325.9	1325.9	1325.9	1325.9
2.5°	1172.6	1170.0	1177.9	1191.0	1204.1	1198.8	1223.7	1249.9	1268.3	1293.2	1323.3
5°	1024.6	1031.1	1039.0	1065.2	1082.2	1086.2	1132.0	1166.1	1222.4	1280.1	1333.8
7.5°	889.6	897.5	913.2	942.0	977.4	986.6	1032.4	1100.6	1174.0	1249.9	1337.7
10°	791.4	799.2	816.3	834.6	881.8	881.8	944.7	1039.0	1134.6	1223.7	1339.0
12.5°	770.4	774.3	773.0	787.4	817.6	824.1	885.7	989.2	1100.6	1214.6	1360.0
15°	795.3	797.9	784.8	777.0	803.2	809.7	867.4	959.1	1078.3	1219.8	1394.1
17.5°	845.1	835.9	809.7	797.9	820.2	824.1	877.8	957.8	1075.7	1234.2	1433.4
20°	873.9	884.4	838.5	816.3	847.7	853.0	910.6	978.7	1088.8	1259.1	1488.4
22.5°	925.0	930.3	868.7	854.3	884.4	884.4	949.9	1020.7	1120.2	1299.7	1553.9
25°	997.1	990.5	918.5	904.0	932.9	944.7	1010.2	1087.5	1168.7	1337.7	1614.2
27.5°	1053.4	1057.3	998.4	960.4	1008.9	1016.7	1087.5	1159.5	1205.4	1369.2	1687.6
30°	1137.3	1129.4	1066.5	1023.3	1083.5	1084.9	1153.0	1227.7	1276.2	1425.5	1797.6
32.5°	1236.8	1221.1	1149.1	1087.5	1136.0	1147.7	1217.2	1325.9	1386.2	1531.6	1967.9
35°	1447.8	1409.8	1291.9	1196.2	1200.2	1205.4	1312.8	1468.8	1538.2	1666.6	2195.9
37.5°	1755.7	1740.0	1606.3	1424.2	1354.8	1339.0	1459.6	1657.4	1743.9	1844.8	2492.0
40°	2061.0	2038.7	1914.2	1776.7	1650.9	1619.4	1679.7	1907.7	1986.3	2092.4	2796.0
42.5°	2400.3	2361.0	2214.3	2102.9	2024.3	1990.2	1966.6	2222.1	2311.2	2383.3	3093.4
45°	2743.6	2679.4	2467.1	2382.0	2340.0	2321.7	2319.1	2617.8	2671.5	2685.9	3423.6
47.5°	3044.9	2975.5	2782.9	2687.3	2655.8	2650.6	2797.3	3073.8	3031.8	2993.8	3791.8
50°	3276.8	3232.3	3093.4	3059.4	3035.8	3026.6	3369.9	3542.8	3348.9	3282.1	4115.4
52.5°	3635.8	3536.3	3379.0	3390.8	3473.4	3474.7	3950.3	3988.3	3612.3	3479.9	4420.7
55°	3922.8	3857.3	3728.9	3711.8	3929.3	3952.9	4470.5	4326.3	3759.0	3668.6	4533.3
57.5°	4260.8	4230.7	4137.7	4140.3	4368.3	4418.0	4933.0	4612.0	3880.9	3790.5	4550.4
60°	4749.5	4663.1	4614.6	4636.9	4905.4	4953.9	5381.1	4817.7	3939.8	3870.4	4508.5
62.5°	5289.3	5188.5	5136.0	5250.0	5641.8	5649.7	5721.7	4999.8	3903.1	3891.3	4238.5
65°	5939.2	5839.6	5797.7	6027.0	6492.1	6463.3	6199.9	5077.1	3786.5	3680.4	3529.7
67.5°	6586.5	6526.2	6439.7	6805.3	7384.4	7384.4	6696.5	5048.3	3481.2	2954.5	2308.6
70°	6893.0	6935.0	7072.5	7646.4	8260.9	8198.0	7186.5	4716.8	2591.6	1586.7	908.0
72°	6688.7	6645.4	7000.5	7921.6	8800.7	8697.2	7104.0	3749.8	1497.6	695.7	315.8
72.5°	6337.5	6378.1	6866.8	7883.6	8699.8	8785.0	6902.2	3459.0	1231.6	554.2	238.5
75°	3886.1	3955.5	5125.6	6693.9	7580.9	7485.3	5339.1	1648.3	473.0	235.8	85.2
77.5°	1419.0	1476.6	2486.8	4212.3	5391.5	5331.3	3089.5	585.7	256.8	175.6	43.2
80°	369.5	399.6	845.1	1943.0	3170.7	3174.7	1293.2	234.5	174.3	144.1	26.2
82.5°	73.4	81.2	259.4	756.0	1481.9	1462.2	408.8	125.8	131.0	117.9	18.3
85°	9.2	11.8	55.0	256.8	479.5	429.8	100.9	62.9	97.0	91.7	11.8
87.5°	1.3	1.3	13.1	59.0	100.9	98.3	21.0	19.7	43.2	56.3	6.6
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°	1325.9	1325.9	1325.9	1325.9	1325.9	1325.9	1325.9	1325.9	1325.9	1325.9	1325.9
2.5°	1340.4	1345.6	1363.9	1379.7	1398.0	1403.2	1395.4	1408.5	1390.1	1400.6	1403.2
5°	1343.0	1373.1	1407.2	1429.4	1424.2	1411.1	1400.6	1365.2	1340.4	1331.2	1350.8
7.5°	1361.3	1395.4	1432.1	1432.1	1403.2	1335.1	1269.6	1206.7	1154.3	1128.1	1150.4
10°	1384.9	1420.3	1458.3	1408.5	1301.0	1176.6	1083.5	965.6	885.7	843.8	847.7
12.5°	1416.3	1466.1	1479.2	1363.9	1185.7	1001.0	832.0	668.2	592.2	531.9	533.3
15°	1457.0	1505.4	1466.1	1267.0	1039.0	766.5	563.4	407.5	347.2	315.8	315.8
17.5°	1510.7	1547.4	1462.2	1177.9	841.2	524.1	345.9	275.1	262.0	256.8	256.8
20°	1573.6	1601.1	1424.2	1039.0	625.0	336.7	254.2	246.3	247.6	245.0	245.0
22.5°	1644.3	1653.5	1381.0	877.8	423.2	248.9	237.1	238.5	239.8	237.1	238.5
25°	1719.0	1694.1	1318.1	689.2	281.7	226.7	229.3	231.9	233.2	234.5	234.5
27.5°	1802.9	1753.1	1230.3	504.4	220.1	213.6	221.4	229.3	230.6	230.6	229.3
30°	1926.0	1843.5	1145.1	342.0	193.9	199.2	212.3	221.4	228.0	228.0	226.7
32.5°	2081.9	1937.8	1025.9	233.2	179.5	182.1	192.6	210.9	225.4	226.7	222.7
35°	2298.1	2051.8	901.4	186.1	169.0	170.3	176.9	191.3	216.2	224.0	222.7
37.5°	2526.1	2181.5	746.8	167.7	161.2	159.8	163.8	175.6	197.8	217.5	218.8
40°	2768.5	2317.8	584.4	158.5	154.6	152.0	153.3	158.5	175.6	200.5	205.7
42.5°	2996.5	2440.9	438.9	149.4	148.1	145.4	145.4	146.7	155.9	172.9	175.6
45°	3242.8	2541.8	334.1	142.8	138.9	140.2	135.0	132.3	138.9	140.2	138.9
47.5°	3473.4	2642.7	267.3	135.0	131.0	131.0	124.5	119.2	119.2	107.4	106.1
50°	3689.6	2697.7	213.6	124.5	123.2	121.9	112.7	103.5	95.6	81.2	78.6
52.5°	3869.1	2695.1	165.1	111.4	115.3	111.4	97.0	83.9	72.1	59.0	56.3
55°	3922.8	2569.3	124.5	91.7	98.3	93.0	77.3	65.5	52.4	41.9	40.6
57.5°	3876.9	2378.0	94.3	70.8	76.0	70.8	59.0	48.5	36.7	28.8	26.2
60°	3723.6	2154.0	73.4	55.0	57.6	53.7	44.5	36.7	26.2	18.3	15.7
62.5°	3432.8	1873.6	56.3	43.2	41.9	41.9	34.1	27.5	18.3	10.5	9.2
65°	2817.0	1460.9	43.2	30.1	30.1	30.1	26.2	19.7	11.8	5.2	2.6
67.5°	1768.8	850.3	35.4	23.6	22.3	22.3	18.3	13.1	6.6	1.3	0.0
70°	665.6	311.8	27.5	18.3	17.0	17.0	13.1	7.9	3.9	0.0	0.0
72°	229.3	119.2	22.3	13.1	13.1	11.8	9.2	6.6	2.6	0.0	0.0
72.5°	188.7	95.6	21.0	13.1	11.8	11.8	9.2	6.6	2.6	0.0	0.0
75°	68.1	39.3	14.4	9.2	7.9	7.9	6.6	3.9	1.3	0.0	0.0
77.5°	34.1	24.9	11.8	7.9	6.6	3.9	3.9	2.6	1.3	0.0	0.0
80°	21.0	15.7	6.6	5.2	3.9	2.6	1.3	1.3	0.0	0.0	0.0
82.5°	14.4	9.2	3.9	3.9	2.6	1.3	0.0	0.0	0.0	0.0	0.0
85°	9.2	3.9	2.6	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	2.6	1.3	0.0	0.0	0.0	0.0	0.0	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)