

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: P483480

Luminaire Tested: **IFLD-M-SA4A-722-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483480
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-722-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

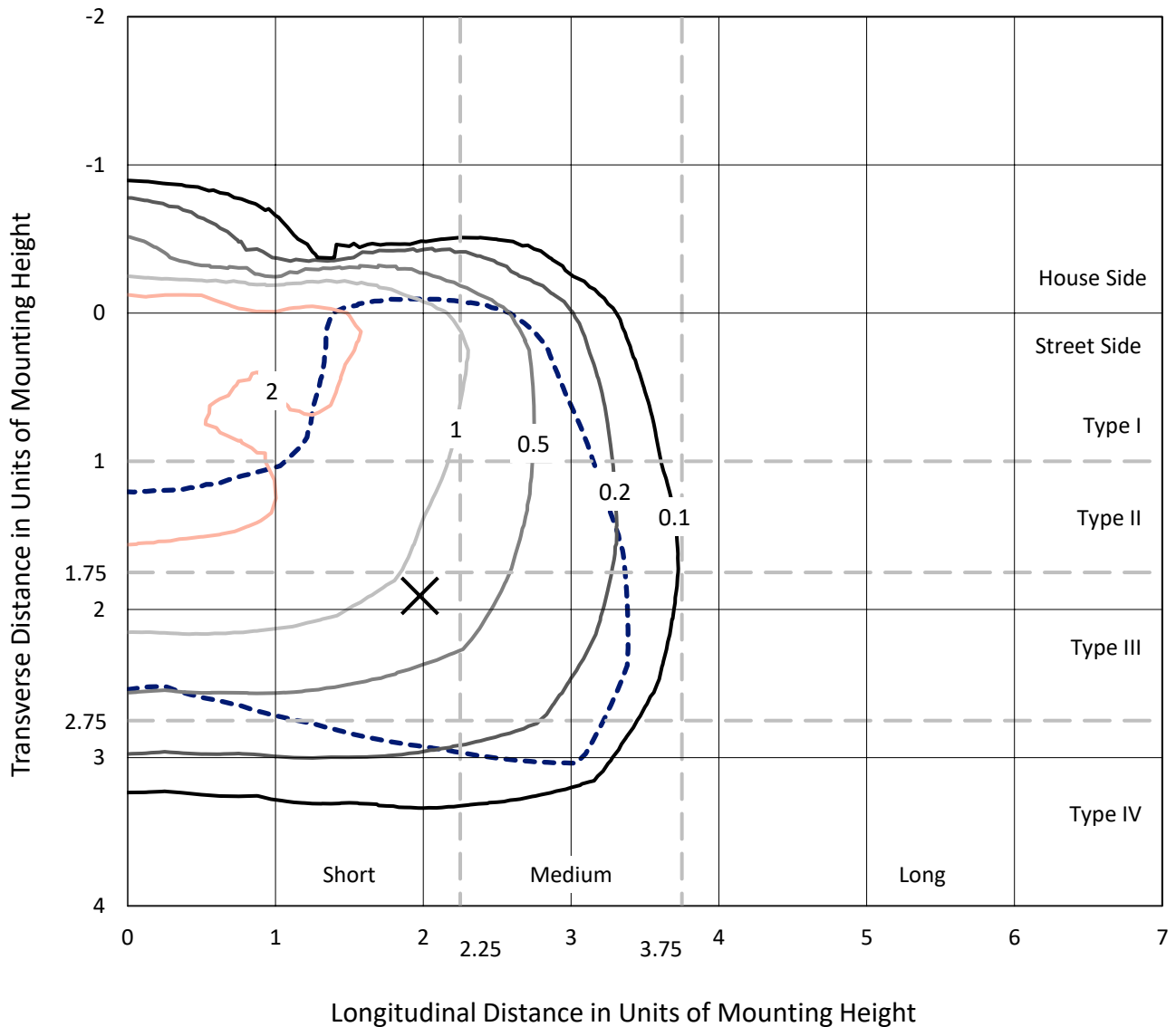
Lumens per Lamp: N/A
Luminaire Lumens: 10036.8 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 128.6
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

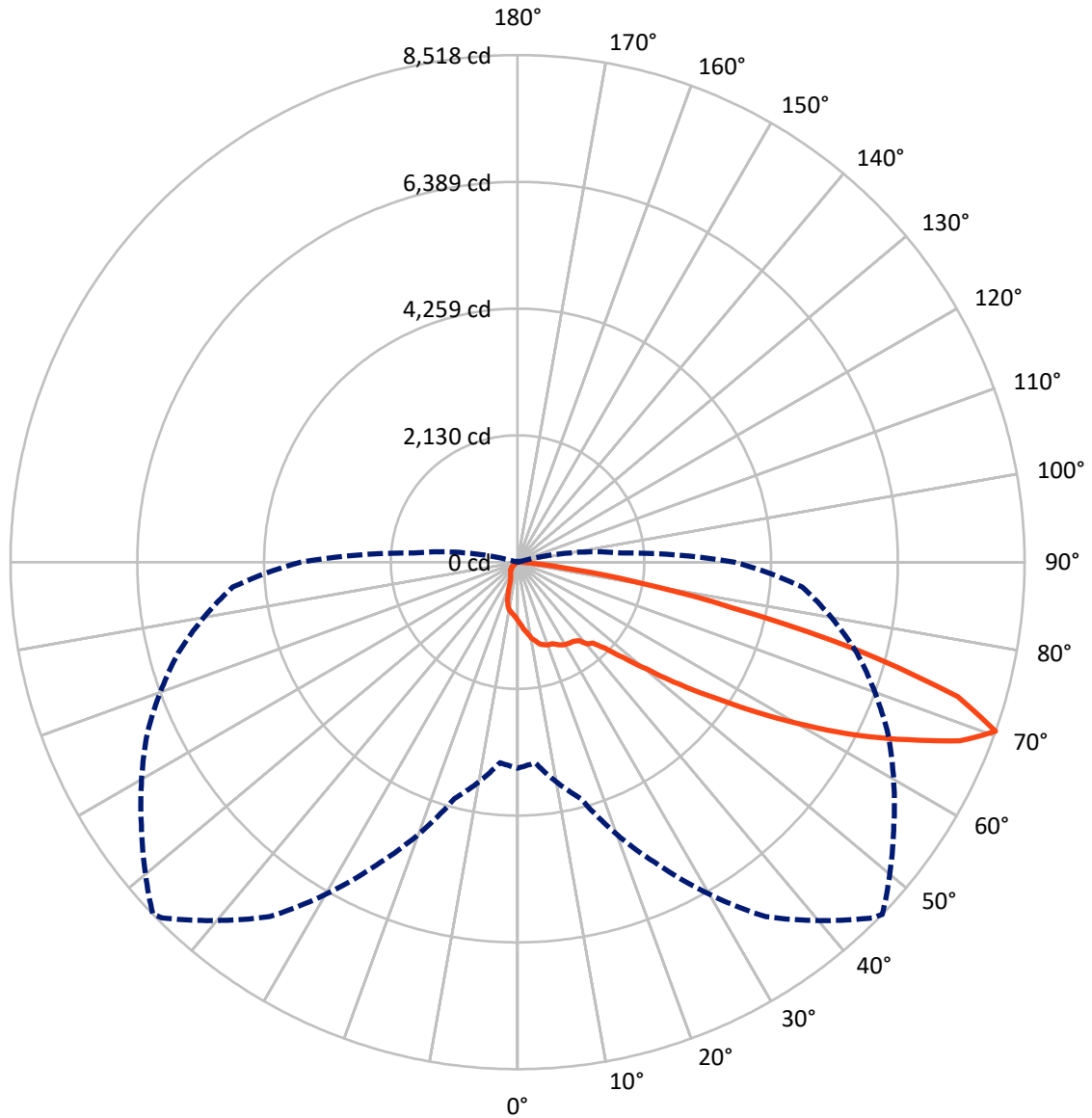
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	998.7	0.0	998.7
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	9038.1	0.0	9038.1
	% Fixture	90.0	0.0	90.0
Total	Lumens	10036.8	0.0	10036.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.2	1.0
10°-20°	296.7	3.0
20°-30°	475.2	4.7
30°-40°	678.3	6.8
40°-50°	1171.3	11.7
50°-60°	2242.6	22.3
60°-70°	3320.9	33.1
70°-80°	1644.8	16.4
80°-90°	108.7	1.1
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°	10036.8	100.0
0°-180°	10036.8	100.0

Coefficient of Utilization



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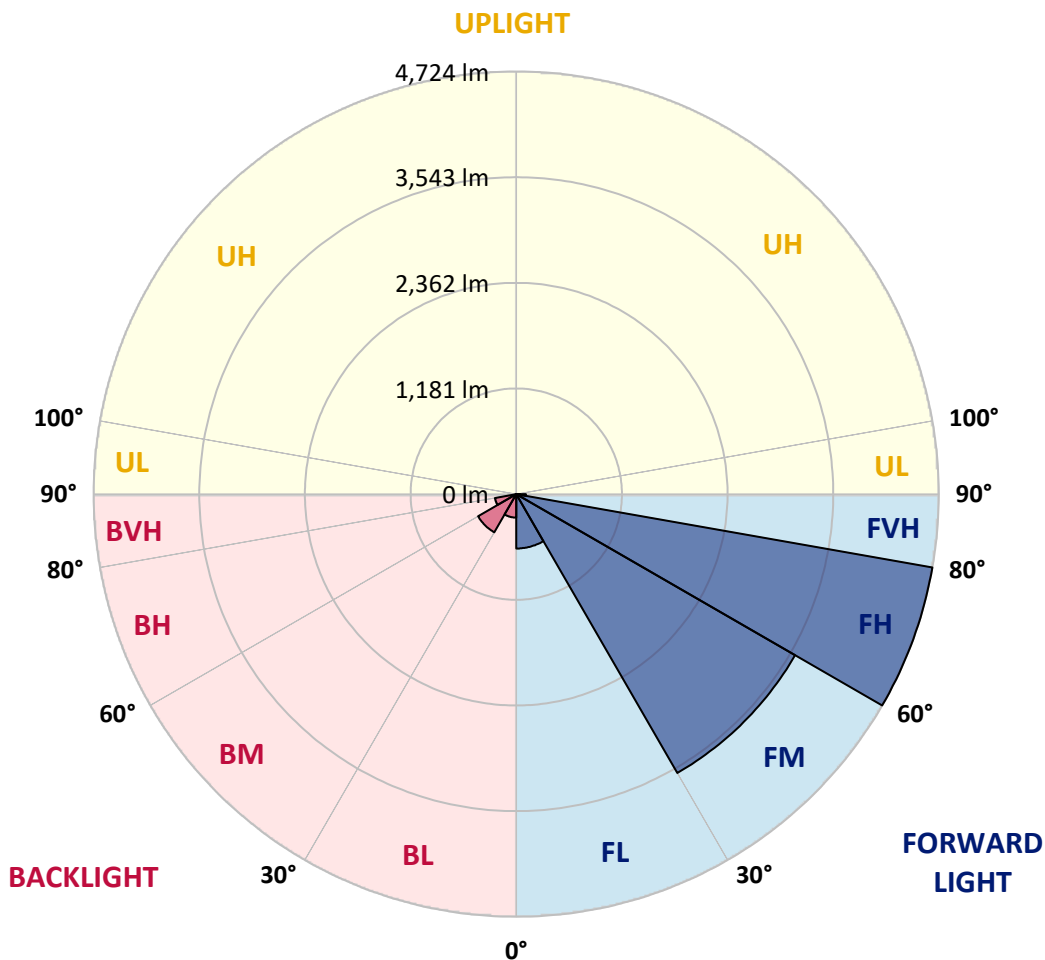
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	607.8	6.1			
FM (30°-60°)	3599.2	35.9			
FH (60°-80°)	4723.9	47.1			G2/5000
FVH (80°-90°)	107.3	1.1			G2/225
BL (0°-30°)	262.4	2.6	B1/500		
BM (30°-60°)	493.1	4.9	B1/1000		
BH (60°-80°)	241.9	2.4	B1/500		G1/500
BVH (80°-90°)	1.4	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°	35°	45°	46°	55°	65°	75°	85°
0°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3
2.5°	1099.4	1092.2	1080.7	1076.3	1064.8	1059.0	1050.3	1046.0	1030.1	1014.2	1004.1
5°	1233.8	1216.5	1222.2	1204.9	1167.3	1137.0	1135.6	1102.3	1066.2	1037.3	998.3
7.5°	1369.6	1355.2	1333.5	1308.9	1267.0	1222.2	1209.2	1177.5	1126.9	1076.3	1024.3
10°	1472.2	1462.1	1443.3	1408.6	1350.8	1300.3	1301.7	1248.2	1194.8	1137.0	1066.2
12.5°	1535.7	1540.1	1512.6	1478.0	1427.4	1363.8	1362.4	1326.3	1265.6	1204.9	1121.1
15°	1599.3	1615.2	1573.3	1532.9	1467.8	1421.6	1430.3	1386.9	1327.7	1258.4	1165.9
17.5°	1609.4	1613.8	1605.1	1545.9	1498.2	1459.2	1460.6	1431.7	1386.9	1311.8	1232.4
20°	1592.1	1589.2	1579.1	1535.7	1504.0	1480.8	1482.3	1475.1	1450.5	1389.8	1281.5
22.5°	1541.5	1541.5	1528.5	1499.6	1485.2	1506.8	1489.5	1517.0	1491.0	1454.8	1365.3
25°	1501.1	1517.0	1509.7	1491.0	1496.7	1525.6	1534.3	1560.3	1556.0	1511.2	1423.1
27.5°	1544.4	1525.6	1530.0	1508.3	1530.0	1573.3	1577.6	1596.4	1595.0	1558.9	1475.1
30°	1573.3	1590.6	1557.4	1509.7	1532.9	1606.5	1603.6	1628.2	1639.8	1596.4	1524.2
32.5°	1665.8	1651.3	1623.9	1560.3	1563.2	1605.1	1618.1	1649.9	1657.1	1631.1	1571.9
35°	1855.0	1833.4	1713.4	1618.1	1603.6	1623.9	1632.5	1694.7	1707.7	1678.8	1622.4
37.5°	2146.9	2097.7	1953.3	1742.3	1677.3	1673.0	1673.0	1755.3	1804.5	1738.0	1697.6
40°	2564.4	2495.0	2339.0	1972.1	1774.1	1791.5	1808.8	1853.6	1847.8	1804.5	1795.8
42.5°	3096.0	3042.6	2873.6	2357.8	1959.0	1872.4	1857.9	1918.6	2009.6	1992.3	1986.5
45°	3539.6	3542.5	3434.1	2886.6	2278.3	2058.7	2068.8	2115.1	2268.2	2255.2	2253.8
47.5°	3863.2	3822.7	3806.9	3396.6	2743.5	2412.7	2398.2	2430.0	2629.4	2711.8	2749.3
50°	4157.9	4130.5	4092.9	3892.1	3302.6	2856.2	2841.8	2844.7	3149.5	3265.1	3357.5
52.5°	4523.4	4558.1	4433.9	4311.1	4026.5	3432.7	3416.8	3360.4	3739.0	3897.9	4007.7
55°	4974.2	4909.2	4769.0	4832.6	4718.5	4055.3	4026.5	3960.0	4410.8	4477.2	4592.8
57.5°	5073.9	5024.8	5169.2	5394.6	5504.4	4786.4	4774.8	4654.9	4975.6	4915.0	5241.5
60°	5322.4	5335.4	5536.2	5984.1	6174.8	5630.1	5573.8	5362.8	5523.2	5534.7	5882.9
62.5°	5578.1	5547.8	5997.1	6427.6	6720.9	6429.0	6410.3	5991.3	6173.3	6026.0	6486.8
65°	5390.3	5436.5	6079.4	6800.3	7428.8	7210.6	7194.7	6596.6	6696.3	6512.8	6732.4
67.5°	4722.8	4628.9	5529.0	6629.9	7792.9	8029.8	8012.5	7256.9	6991.0	6509.9	6222.4
70°	3461.6	3380.7	4114.6	5614.2	7271.3	8448.8	8518.1	7716.3	6871.1	5903.2	4800.8
72.5°	1696.1	1697.6	2305.8	3806.9	5752.9	7700.4	7735.1	7074.8	5903.2	4351.5	2719.0
75°	501.3	507.1	853.8	1866.6	3718.7	5848.3	5887.3	5370.0	4091.5	2248.0	927.5
77.5°	183.5	183.5	283.2	700.7	1855.0	3691.3	3688.4	3296.9	2071.7	761.4	216.7
80°	95.4	99.7	147.4	286.1	803.3	1922.9	1995.2	1613.8	787.4	320.7	63.6
82.5°	39.0	43.3	80.9	147.4	385.7	674.7	738.3	632.8	342.4	223.9	28.9
85°	11.6	13.0	39.0	82.3	151.7	169.0	187.8	212.4	215.3	173.4	13.0
87.5°	1.4	1.4	15.9	27.4	33.2	36.1	41.9	41.9	109.8	121.4	7.2
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°	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3	985.3
2.5°	992.5	985.3	973.7	947.7	942.0	923.2	921.7	904.4	910.2	898.6	894.3
5°	985.3	969.4	937.6	917.4	897.2	884.2	875.5	868.3	866.8	861.1	858.2
7.5°	998.3	976.6	927.5	895.7	861.1	849.5	830.7	829.3	819.2	809.0	809.0
10°	1041.6	1002.6	949.2	895.7	850.9	813.4	770.0	738.3	726.7	700.7	703.6
12.5°	1076.3	1041.6	963.6	908.7	840.8	755.6	660.2	586.6	551.9	518.7	531.7
15°	1125.4	1074.9	991.1	911.6	801.8	654.5	498.4	416.1	384.3	377.1	375.6
17.5°	1178.9	1125.4	1025.8	904.4	722.4	505.7	367.0	319.3	325.1	333.7	332.3
20°	1238.1	1173.1	1051.8	879.8	596.7	367.0	300.5	299.1	307.7	320.7	323.6
22.5°	1300.3	1243.9	1083.5	806.2	445.0	294.7	288.9	288.9	294.7	310.6	307.7
25°	1369.6	1294.5	1099.4	692.0	319.3	271.6	274.5	280.3	283.2	296.2	297.6
27.5°	1423.1	1350.8	1103.8	554.8	260.1	251.4	258.6	265.8	270.2	280.3	284.6
30°	1472.2	1421.6	1080.7	413.2	238.4	234.0	236.9	247.0	255.7	264.4	264.4
32.5°	1534.3	1462.1	1027.2	293.3	225.4	218.2	216.7	221.0	231.2	241.3	241.3
35°	1597.9	1530.0	942.0	235.5	213.8	203.7	197.9	193.6	197.9	205.2	210.9
37.5°	1690.3	1632.5	835.1	216.7	205.2	190.7	179.1	169.0	161.8	160.4	164.7
40°	1821.8	1748.1	697.8	203.7	195.0	177.7	160.4	143.0	127.1	117.0	118.5
42.5°	2021.2	1918.6	549.0	196.5	187.8	163.3	138.7	114.1	93.9	83.8	83.8
45°	2305.8	2144.0	403.1	189.3	179.1	145.9	114.1	85.2	65.0	59.2	60.7
47.5°	2734.9	2415.6	288.9	177.7	167.6	127.1	89.6	60.7	47.7	44.8	46.2
50°	3295.4	2737.8	225.4	164.7	153.1	106.9	66.5	44.8	37.6	36.1	37.6
52.5°	3883.4	3062.8	197.9	153.1	131.5	85.2	49.1	36.1	31.8	30.3	31.8
55°	4386.2	3272.3	171.9	135.8	105.5	63.6	39.0	31.8	27.4	23.1	23.1
57.5°	4894.7	3377.8	135.8	112.7	78.0	47.7	33.2	27.4	23.1	18.8	17.3
60°	5307.9	3452.9	96.8	83.8	54.9	37.6	28.9	24.6	18.8	14.4	13.0
62.5°	5579.5	3237.6	70.8	63.6	40.5	31.8	24.6	20.2	14.4	10.1	10.1
65°	5445.2	2940.0	54.9	44.8	30.3	24.6	20.2	14.4	10.1	5.8	4.3
67.5°	4886.1	2395.4	44.8	33.2	23.1	18.8	15.9	11.6	5.8	1.4	1.4
70°	3645.0	1755.3	36.1	24.6	18.8	14.4	11.6	7.2	2.9	1.4	0.0
72.5°	1993.7	960.7	28.9	20.2	14.4	11.6	8.7	5.8	2.9	0.0	0.0
75°	658.8	255.7	21.7	14.4	8.7	7.2	5.8	4.3	1.4	0.0	0.0
77.5°	158.9	66.5	17.3	13.0	7.2	4.3	2.9	1.4	1.4	0.0	0.0
80°	49.1	27.4	13.0	8.7	5.8	4.3	1.4	0.0	0.0	0.0	0.0
82.5°	20.2	13.0	5.8	5.8	4.3	1.4	0.0	0.0	0.0	0.0	0.0
85°	10.1	7.2	4.3	2.9	2.9	1.4	0.0	0.0	0.0	0.0	0.0
87.5°	7.2	2.9	1.4	1.4	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)