

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: P483090

Luminaire Tested: **IFLD-M-SA4A-722-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483090
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-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

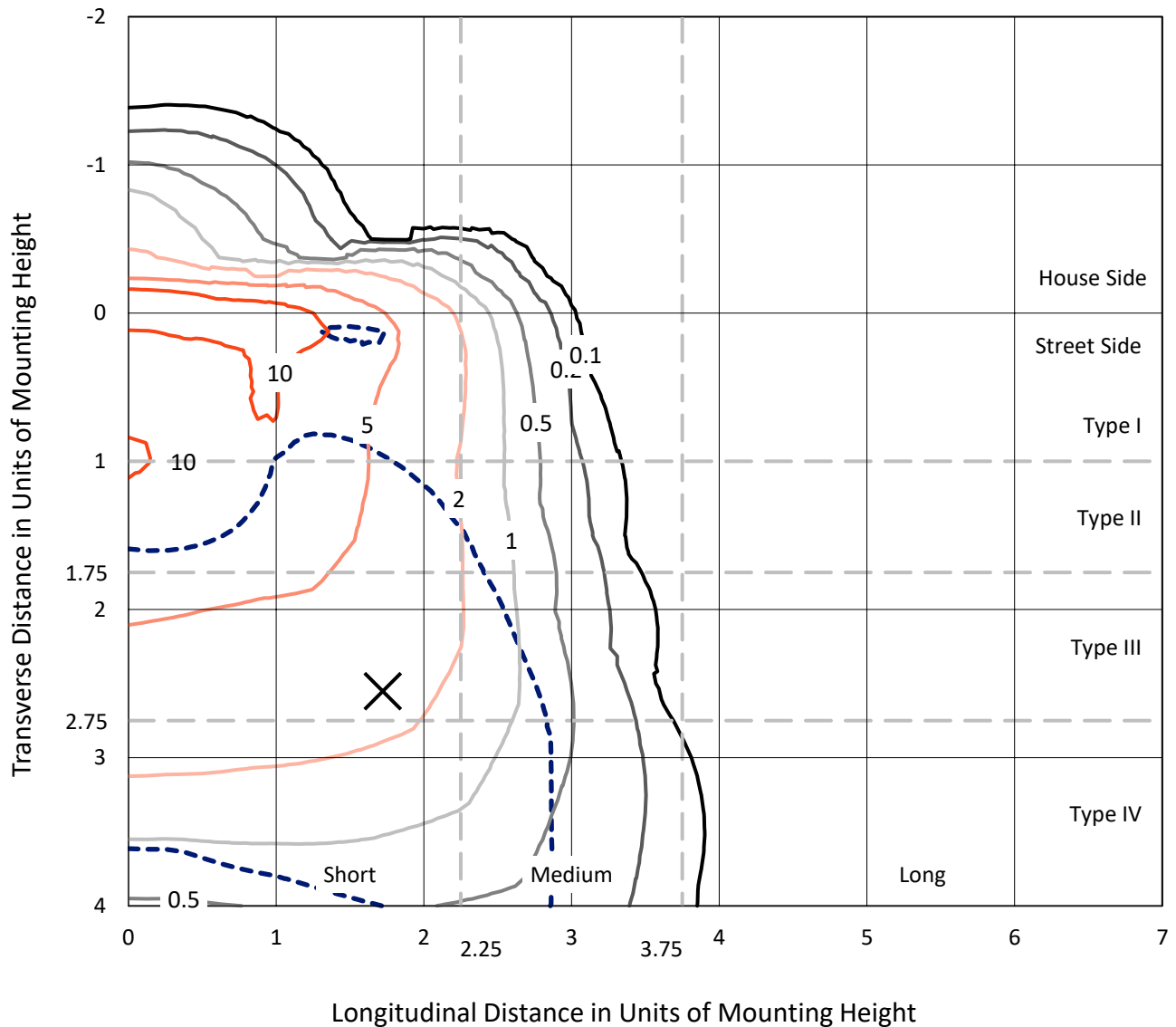
Lumens per Lamp: N/A
Luminaire Lumens: 9836.2 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

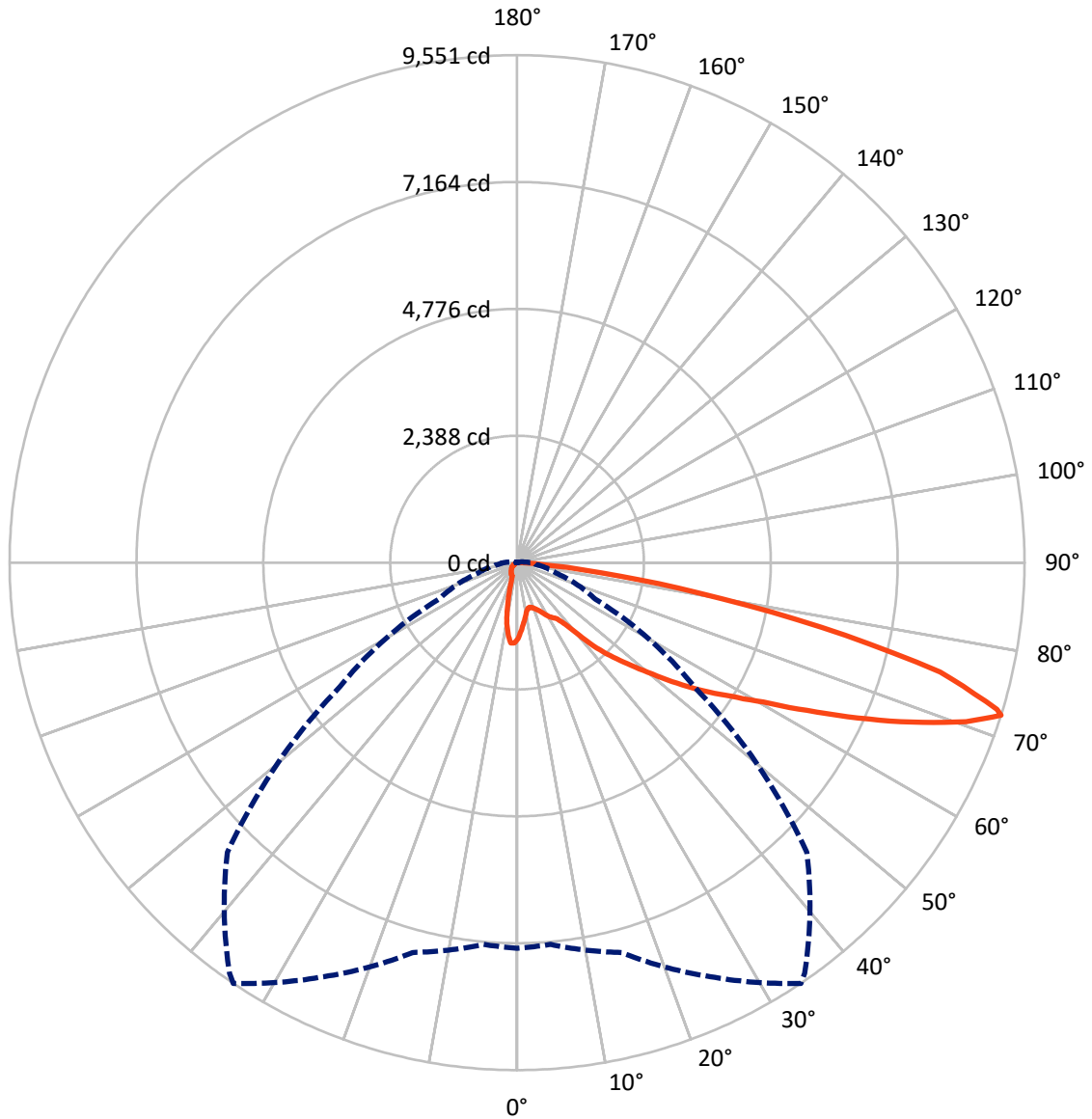
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.4 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	1007.0	0.0	1007.0
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	8829.2	0.0	8829.2
	% Fixture	89.8	0.0	89.8
Total	Lumens	9836.2	0.0	9836.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.9	1.3
10°-20°	282.8	2.9
20°-30°	426.9	4.3
30°-40°	692.8	7.0
40°-50°	1302.7	13.2
50°-60°	2129.9	21.7
60°-70°	2831.4	28.8
70°-80°	1896.2	19.3
80°-90°	148.6	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°	9836.2	100.0
0°-180°	9836.2	100.0



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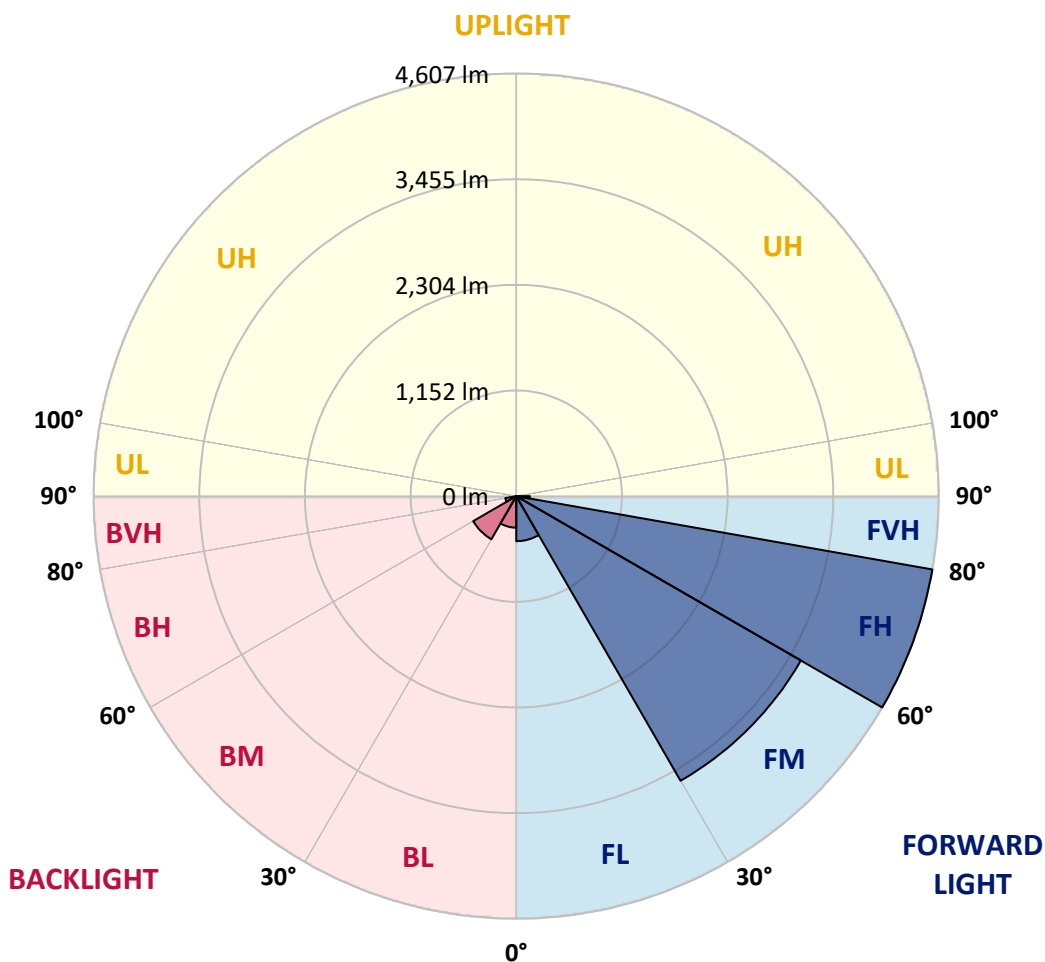
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	491.0	5.0			
FM (30°-60°)	3583.3	36.4			
FH (60°-80°)	4607.2	46.8			G2/5000
FVH (80°-90°)	147.7	1.5			G2/225
BL (0°-30°)	343.6	3.5	B1/500		
BM (30°-60°)	542.1	5.5	B1/1000		
BH (60°-80°)	120.4	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°	1439.0	1439.0	1439.0	1439.0	1439.0	1439.0	1439.0	1439.0	1439.0	1439.0	1439.0
2.5°	1272.7	1269.8	1278.4	1292.6	1306.8	1301.1	1328.1	1356.6	1376.5	1403.5	1436.2
5°	1112.0	1119.1	1127.6	1156.1	1174.6	1178.8	1228.6	1265.6	1326.7	1389.3	1447.6
7.5°	965.5	974.1	991.1	1022.4	1060.8	1070.8	1120.5	1194.5	1274.1	1356.6	1451.8
10°	858.9	867.4	885.9	905.8	957.0	957.0	1025.2	1127.6	1231.4	1328.1	1453.3
12.5°	836.1	840.4	839.0	854.6	887.3	894.4	961.3	1073.6	1194.5	1318.2	1476.0
15°	863.1	866.0	851.8	843.2	871.7	878.8	941.4	1040.9	1170.3	1323.9	1513.0
17.5°	917.2	907.2	878.8	866.0	890.2	894.4	952.7	1039.5	1167.4	1339.5	1555.6
20°	948.5	959.8	910.1	885.9	920.0	925.7	988.3	1062.2	1181.7	1366.5	1615.4
22.5°	1003.9	1009.6	942.8	927.1	959.8	959.8	1030.9	1107.7	1215.8	1410.6	1686.5
25°	1082.1	1075.0	996.8	981.2	1012.5	1025.2	1096.3	1180.2	1268.4	1451.8	1751.9
27.5°	1143.3	1147.5	1083.5	1042.3	1094.9	1103.5	1180.2	1258.5	1308.2	1486.0	1831.5
30°	1234.3	1225.7	1157.5	1110.6	1176.0	1177.4	1251.3	1332.4	1385.0	1547.1	1951.0
32.5°	1342.3	1325.3	1247.1	1180.2	1232.9	1245.7	1321.0	1439.0	1504.5	1662.3	2135.8
35°	1571.3	1530.1	1402.1	1298.3	1302.5	1308.2	1424.8	1594.0	1669.4	1808.8	2383.2
37.5°	1905.5	1888.4	1743.3	1545.7	1470.3	1453.3	1584.1	1798.8	1892.7	2002.1	2704.6
40°	2236.8	2212.6	2077.5	1928.2	1791.7	1757.6	1823.0	2070.4	2155.7	2270.9	3034.5
42.5°	2605.1	2562.4	2403.1	2282.3	2197.0	2160.0	2134.4	2411.7	2508.4	2586.6	3357.3
45°	2977.6	2908.0	2677.6	2585.2	2539.7	2519.8	2516.9	2841.1	2899.4	2915.1	3715.6
47.5°	3304.7	3229.3	3020.3	2916.5	2882.4	2876.7	3035.9	3336.0	3290.5	3249.2	4115.2
50°	3556.4	3508.0	3357.3	3320.3	3294.7	3284.8	3657.3	3845.0	3634.6	3562.1	4466.4
52.5°	3946.0	3837.9	3667.3	3680.1	3769.7	3771.1	4287.3	4328.5	3920.4	3776.8	4797.8
55°	4257.4	4186.3	4047.0	4028.5	4264.5	4290.1	4851.8	4695.4	4079.7	3981.5	4920.1
57.5°	4624.3	4591.6	4490.6	4493.5	4740.9	4794.9	5353.8	5005.4	4211.9	4113.8	4938.5
60°	5154.7	5060.8	5008.2	5032.4	5323.9	5376.5	5840.1	5228.6	4275.9	4200.5	4893.0
62.5°	5740.5	5631.0	5574.2	5697.9	6123.0	6131.6	6209.8	5426.3	4236.1	4223.3	4600.1
65°	6445.8	6337.8	6292.3	6541.1	7045.9	7014.6	6728.8	5510.2	4109.5	3994.3	3830.8
67.5°	7148.3	7082.9	6989.0	7385.8	8014.3	8014.3	7267.7	5478.9	3778.2	3206.6	2505.5
70°	7481.0	7526.5	7675.9	8298.7	8965.6	8897.3	7799.6	5119.1	2812.7	1722.0	985.4
72°	7259.2	7212.3	7597.6	8597.3	9551.4	9439.1	7710.0	4069.7	1625.3	755.1	342.7
72.5°	6878.1	6922.2	7452.6	8556.1	9442.0	9534.4	7491.0	3754.0	1336.7	601.5	258.8
75°	4217.6	4293.0	5562.8	7264.9	8227.6	8123.8	5794.6	1788.9	513.3	256.0	92.4
77.5°	1540.0	1602.6	2698.9	4571.7	5851.5	5786.0	3353.0	635.6	278.7	190.5	46.9
80°	401.0	433.7	917.2	2108.8	3441.2	3445.5	1403.5	254.5	189.1	156.4	28.4
82.5°	79.6	88.2	281.6	820.5	1608.3	1586.9	443.7	136.5	142.2	128.0	19.9
85°	10.0	12.8	59.7	278.7	520.4	466.4	109.5	68.3	105.2	99.5	12.8
87.5°	1.4	1.4	14.2	64.0	109.5	106.6	22.8	21.3	46.9	61.1	7.1
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°	1439.0	1439.0	1439.0	1439.0	1439.0	1439.0	1439.0	1439.0	1439.0	1439.0	1439.0
2.5°	1454.7	1460.4	1480.3	1497.3	1517.3	1522.9	1514.4	1528.6	1508.7	1520.1	1522.9
5°	1457.5	1490.2	1527.2	1551.4	1545.7	1531.5	1520.1	1481.7	1454.7	1444.7	1466.1
7.5°	1477.4	1514.4	1554.2	1554.2	1522.9	1449.0	1377.9	1309.6	1252.8	1224.3	1248.5
10°	1503.0	1541.4	1582.7	1528.6	1412.0	1276.9	1176.0	1048.0	961.3	915.8	920.0
12.5°	1537.2	1591.2	1605.4	1480.3	1286.9	1086.4	903.0	725.2	642.7	577.3	578.7
15°	1581.2	1633.9	1591.2	1375.1	1127.6	831.9	611.5	442.2	376.8	342.7	342.7
17.5°	1639.5	1679.4	1586.9	1278.4	912.9	568.8	375.4	298.6	284.4	278.7	278.7
20°	1707.8	1737.7	1545.7	1127.6	678.3	365.4	275.9	267.3	268.8	265.9	265.9
22.5°	1784.6	1794.5	1498.8	952.7	459.3	270.2	257.4	258.8	260.2	257.4	258.8
25°	1865.6	1838.6	1430.5	748.0	305.7	246.0	248.8	251.7	253.1	254.5	254.5
27.5°	1956.6	1902.6	1335.2	547.5	238.9	231.8	240.3	248.8	250.3	250.3	248.8
30°	2090.3	2000.7	1242.8	371.1	210.5	216.1	230.4	240.3	247.4	247.4	246.0
32.5°	2259.5	2103.1	1113.4	253.1	194.8	197.7	209.0	228.9	244.6	246.0	241.7
35°	2494.2	2226.8	978.3	201.9	183.4	184.9	192.0	207.6	234.6	243.2	241.7
37.5°	2741.6	2367.6	810.5	182.0	174.9	173.5	177.7	190.5	214.7	236.0	237.5
40°	3004.6	2515.5	634.2	172.1	167.8	164.9	166.4	172.1	190.5	217.6	223.3
42.5°	3252.1	2649.2	476.4	162.1	160.7	157.8	157.8	159.3	169.2	187.7	190.5
45°	3519.4	2758.6	362.6	155.0	150.7	152.2	146.5	143.6	150.7	152.2	150.7
47.5°	3769.7	2868.1	290.1	146.5	142.2	142.2	135.1	129.4	129.4	116.6	115.2
50°	4004.3	2927.9	231.8	135.1	133.7	132.2	122.3	112.3	103.8	88.2	85.3
52.5°	4199.1	2925.0	179.2	120.9	125.1	120.9	105.2	91.0	78.2	64.0	61.1
55°	4257.4	2788.5	135.1	99.5	106.6	101.0	83.9	71.1	56.9	45.5	44.1
57.5°	4207.6	2580.9	102.4	76.8	82.5	76.8	64.0	52.6	39.8	31.3	28.4
60°	4041.3	2337.7	79.6	59.7	62.6	58.3	48.3	39.8	28.4	19.9	17.1
62.5°	3725.6	2033.4	61.1	46.9	45.5	45.5	37.0	29.9	19.9	11.4	10.0
65°	3057.3	1585.5	46.9	32.7	32.7	32.7	28.4	21.3	12.8	5.7	2.8
67.5°	1919.7	922.9	38.4	25.6	24.2	24.2	19.9	14.2	7.1	1.4	0.0
70°	722.4	338.4	29.9	19.9	18.5	18.5	14.2	8.5	4.3	0.0	0.0
72°	248.8	129.4	24.2	14.2	14.2	12.8	10.0	7.1	2.8	0.0	0.0
72.5°	204.8	103.8	22.8	14.2	12.8	12.8	10.0	7.1	2.8	0.0	0.0
75°	73.9	42.7	15.6	10.0	8.5	8.5	7.1	4.3	1.4	0.0	0.0
77.5°	37.0	27.0	12.8	8.5	7.1	4.3	4.3	2.8	1.4	0.0	0.0
80°	22.8	17.1	7.1	5.7	4.3	2.8	1.4	1.4	0.0	0.0	0.0
82.5°	15.6	10.0	4.3	4.3	2.8	1.4	0.0	0.0	0.0	0.0	0.0
85°	10.0	4.3	2.8	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	2.8	1.4	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)