

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: P483535

Luminaire Tested: **IFLD-S-SA2C-730-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483535
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-730-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

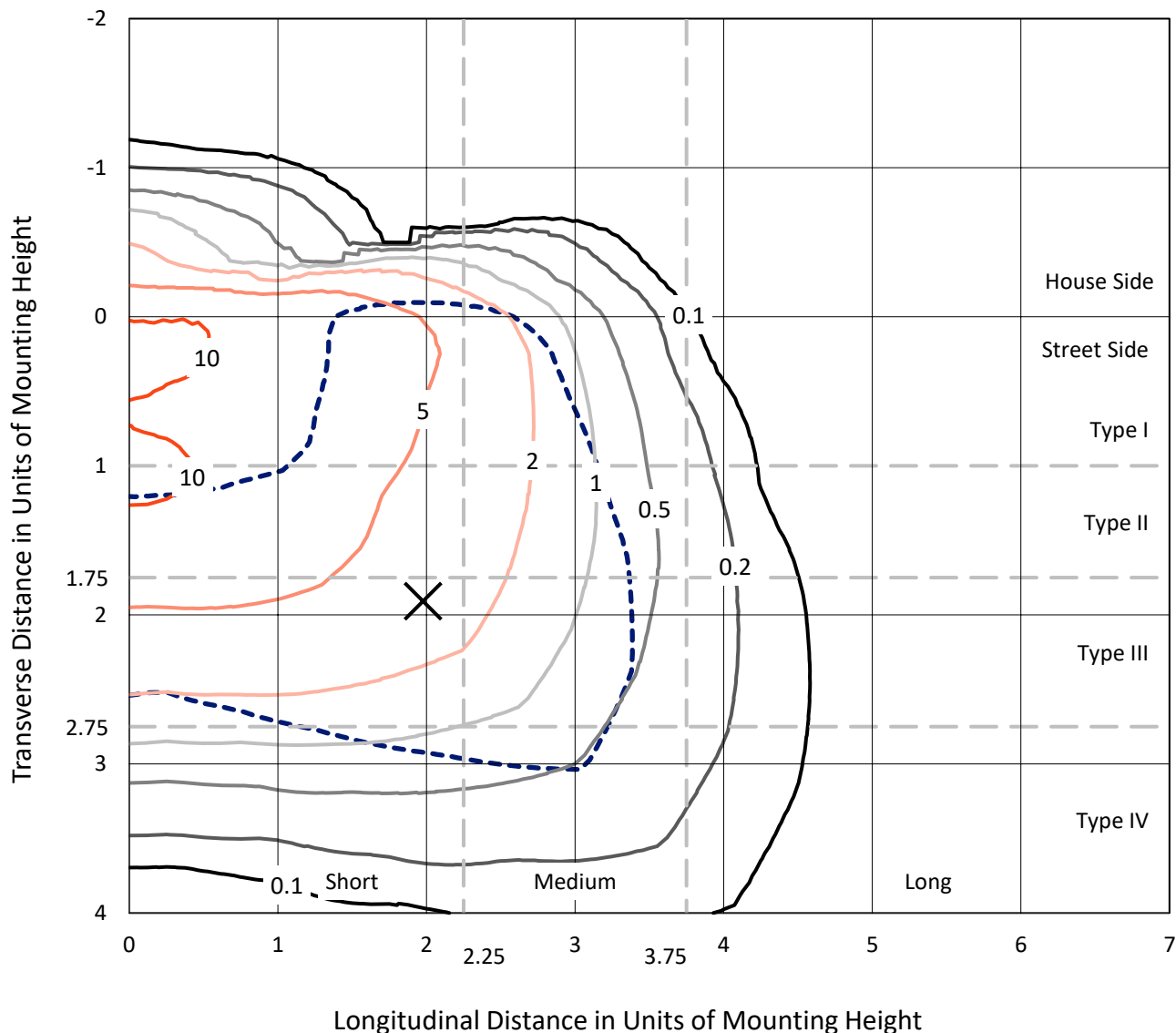
Lumens per Lamp: N/A
Luminaire Lumens: 9549.6 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2
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

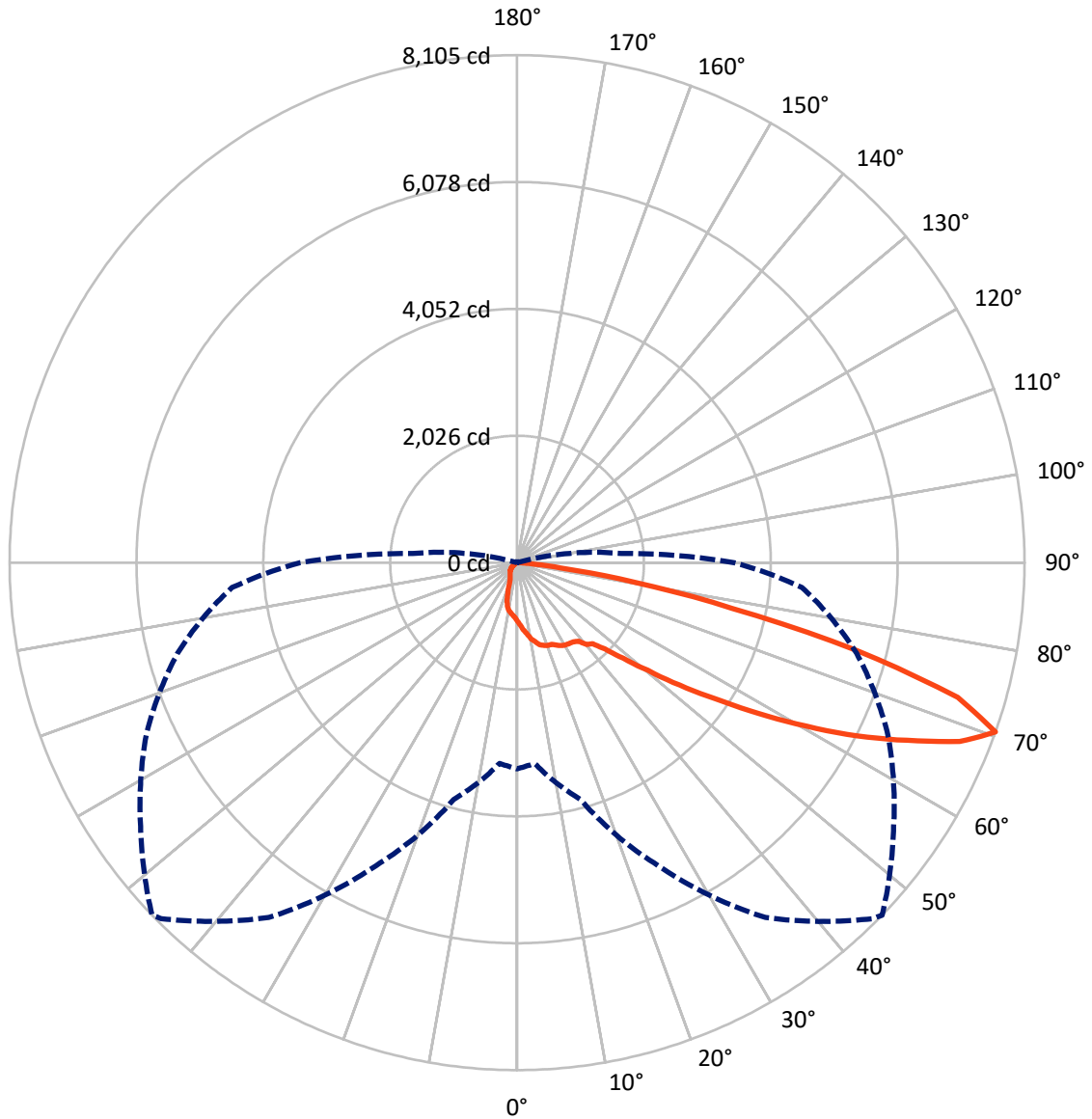
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.7 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	950.2	0.0	950.2
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	8599.4	0.0	8599.4
	% Fixture	90.0	0.0	90.0
Total	Lumens	9549.6	0.0	9549.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.5	1.0
10°-20°	282.3	3.0
20°-30°	452.2	4.7
30°-40°	645.4	6.8
40°-50°	1114.5	11.7
50°-60°	2133.7	22.3
60°-70°	3159.7	33.1
70°-80°	1565.0	16.4
80°-90°	103.4	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°	9549.6	100.0
0°-180°	9549.6	100.0

Coefficient of Utilization

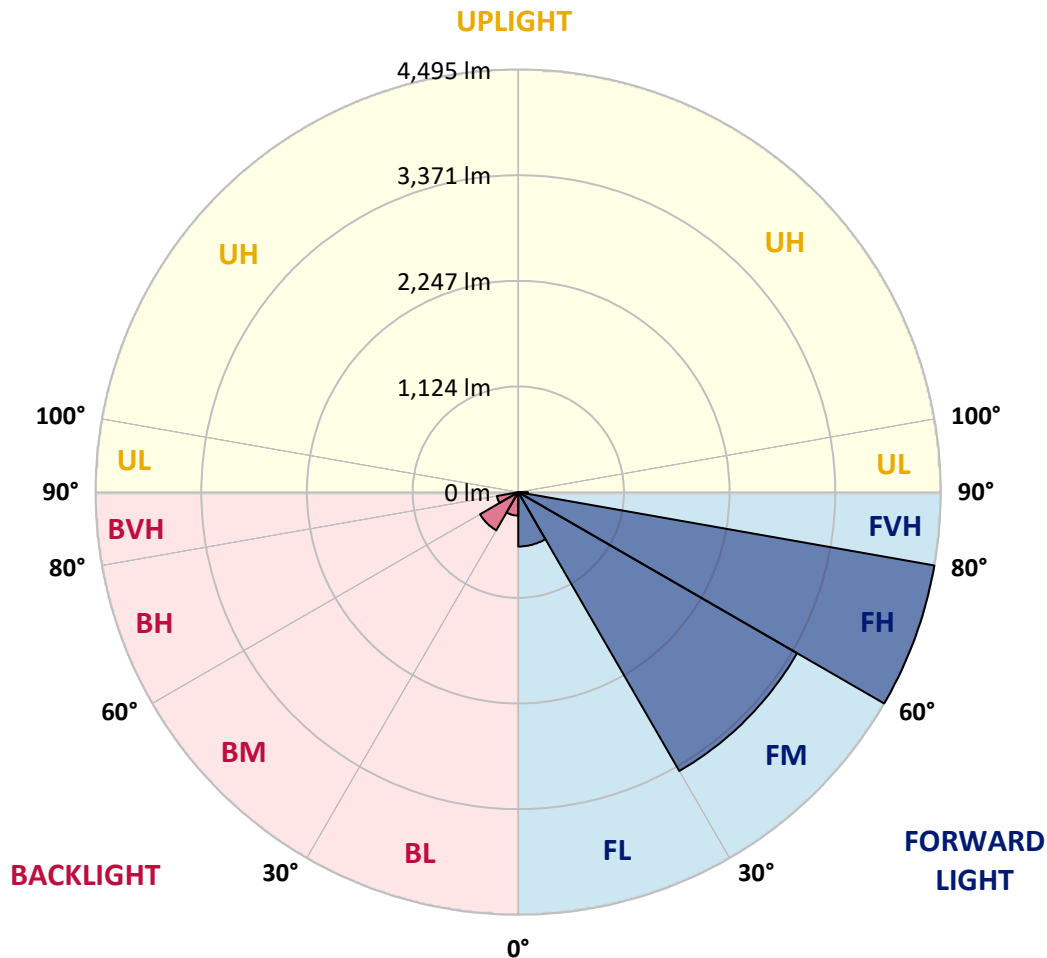


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	578.3	6.1			
FM (30°-60°)	3424.5	35.9			
FH (60°-80°)	4494.5	47.1			G2/5000
FVH (80°-90°)	102.1	1.1			G2/225
BL (0°-30°)	249.6	2.6	B1/500		
BM (30°-60°)	469.1	4.9	B1/1000		
BH (60°-80°)	230.1	2.4	B1/500		G1/500
BVH (80°-90°)	1.3	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°	937.5	937.5	937.5	937.5	937.5	937.5	937.5	937.5	937.5	937.5	937.5
2.5°	1046.1	1039.2	1028.2	1024.1	1013.1	1007.6	999.3	995.2	980.1	965.0	955.3
5°	1173.9	1157.4	1162.9	1146.4	1110.7	1081.8	1080.4	1048.8	1014.5	987.0	949.8
7.5°	1303.1	1289.4	1268.8	1245.4	1205.5	1162.9	1150.5	1120.3	1072.2	1024.1	974.6
10°	1400.7	1391.1	1373.2	1340.2	1285.2	1237.1	1238.5	1187.6	1136.8	1081.8	1014.5
12.5°	1461.2	1465.3	1439.2	1406.2	1358.1	1297.6	1296.2	1261.9	1204.1	1146.4	1066.7
15°	1521.7	1536.8	1496.9	1458.4	1396.6	1352.6	1360.8	1319.6	1263.3	1197.3	1109.3
17.5°	1531.3	1535.4	1527.2	1470.8	1425.5	1388.3	1389.7	1362.2	1319.6	1248.1	1172.5
20°	1514.8	1512.1	1502.4	1461.2	1431.0	1409.0	1410.3	1403.5	1380.1	1322.4	1219.3
22.5°	1466.7	1466.7	1454.3	1426.8	1413.1	1433.7	1417.2	1443.3	1418.6	1384.2	1299.0
25°	1428.2	1443.3	1436.5	1418.6	1424.1	1451.6	1459.8	1484.6	1480.4	1437.8	1354.0
27.5°	1469.4	1451.6	1455.7	1435.1	1455.7	1496.9	1501.1	1518.9	1517.6	1483.2	1403.5
30°	1496.9	1513.4	1481.8	1436.5	1458.4	1528.5	1525.8	1549.2	1560.2	1518.9	1450.2
32.5°	1584.9	1571.2	1545.0	1484.6	1487.3	1527.2	1539.5	1569.8	1576.7	1551.9	1495.6
35°	1765.0	1744.4	1630.3	1539.5	1525.8	1545.0	1553.3	1612.4	1624.8	1597.3	1543.7
37.5°	2042.6	1995.9	1858.5	1657.8	1595.9	1591.8	1591.8	1670.1	1716.9	1653.6	1615.1
40°	2439.9	2373.9	2225.5	1876.3	1688.0	1704.5	1721.0	1763.6	1758.1	1716.9	1708.6
42.5°	2945.8	2894.9	2734.1	2243.3	1864.0	1781.5	1767.7	1825.5	1912.1	1895.6	1890.1
45°	3367.8	3370.5	3267.4	2746.4	2167.7	1958.8	1968.4	2012.4	2158.1	2145.7	2144.4
47.5°	3675.7	3637.2	3622.1	3231.7	2610.4	2295.6	2281.8	2312.1	2501.8	2580.1	2615.9
50°	3956.1	3930.0	3894.2	3703.2	3142.3	2717.6	2703.8	2706.6	2996.6	3106.6	3194.6
52.5°	4303.9	4336.8	4218.6	4101.8	3831.0	3266.0	3250.9	3197.3	3557.5	3708.7	3813.1
55°	4732.7	4670.9	4537.5	4598.0	4489.4	3858.5	3831.0	3767.8	4196.6	4259.9	4369.8
57.5°	4827.6	4780.8	4918.3	5132.7	5237.2	4554.0	4543.0	4428.9	4734.1	4676.4	4987.0
60°	5064.0	5076.4	5267.4	5693.6	5875.0	5356.8	5303.2	5102.5	5255.1	5266.1	5597.3
62.5°	5307.3	5278.4	5705.9	6115.6	6394.6	6116.9	6099.1	5700.4	5873.6	5733.4	6171.9
65°	5128.6	5172.6	5784.3	6470.2	7068.2	6860.6	6845.5	6276.4	6371.2	6196.7	6405.6
67.5°	4493.6	4404.2	5260.6	6308.0	7414.6	7640.0	7623.5	6904.6	6651.7	6193.9	5920.4
70°	3293.5	3216.6	3914.8	5341.7	6918.3	8038.6	8104.6	7341.7	6537.6	5616.6	4567.8
72.5°	1613.8	1615.1	2193.9	3622.1	5473.6	7326.6	7359.6	6731.4	5616.6	4140.3	2587.0
75°	477.0	482.5	812.4	1776.0	3538.2	5564.4	5601.5	5109.4	3892.9	2138.9	882.5
77.5°	174.6	174.6	269.4	666.7	1765.0	3512.1	3509.3	3136.8	1971.2	724.4	206.2
80°	90.7	94.8	140.2	272.2	764.3	1829.6	1898.3	1535.4	749.2	305.2	60.5
82.5°	37.1	41.2	77.0	140.2	367.0	641.9	702.4	602.1	325.8	213.1	27.5
85°	11.0	12.4	37.1	78.4	144.3	160.8	178.7	202.1	204.8	165.0	12.4
87.5°	1.4	1.4	15.1	26.1	31.6	34.4	39.9	39.9	104.5	115.5	6.9
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°	937.5	937.5	937.5	937.5	937.5	937.5	937.5	937.5	937.5	937.5	937.5
2.5°	944.3	937.5	926.5	901.7	896.2	878.4	877.0	860.5	866.0	855.0	850.9
5°	937.5	922.4	892.1	872.9	853.6	841.3	833.0	826.1	824.8	819.3	816.5
7.5°	949.8	929.2	882.5	852.2	819.3	808.3	790.4	789.0	779.4	769.8	769.8
10°	991.1	954.0	903.1	852.2	809.6	773.9	732.7	702.4	691.4	666.7	669.4
12.5°	1024.1	991.1	916.9	864.6	800.0	718.9	628.2	558.1	525.1	493.5	505.9
15°	1070.8	1022.7	943.0	867.4	762.9	622.7	474.2	395.9	365.6	358.8	357.4
17.5°	1121.7	1070.8	976.0	860.5	687.3	481.1	349.1	303.8	309.3	317.5	316.2
20°	1178.0	1116.2	1000.7	837.1	567.7	349.1	285.9	284.5	292.8	305.2	307.9
22.5°	1237.1	1183.5	1030.9	767.0	423.4	280.4	274.9	274.9	280.4	295.5	292.8
25°	1303.1	1231.6	1046.1	658.4	303.8	258.4	261.2	266.7	269.4	281.8	283.2
27.5°	1354.0	1285.2	1050.2	527.8	247.4	239.2	246.1	252.9	257.0	266.7	270.8
30°	1400.7	1352.6	1028.2	393.1	226.8	222.7	225.4	235.1	243.3	251.6	251.6
32.5°	1459.8	1391.1	977.3	279.0	214.4	207.6	206.2	210.3	219.9	229.6	229.6
35°	1520.3	1455.7	896.2	224.1	203.4	193.8	188.3	184.2	188.3	195.2	200.7
37.5°	1608.3	1553.3	794.5	206.2	195.2	181.4	170.4	160.8	154.0	152.6	156.7
40°	1733.4	1663.3	663.9	193.8	185.6	169.1	152.6	136.1	121.0	111.3	112.7
42.5°	1923.1	1825.5	522.3	186.9	178.7	155.3	132.0	108.6	89.3	79.7	79.7
45°	2193.9	2039.9	383.5	180.1	170.4	138.8	108.6	81.1	61.9	56.4	57.7
47.5°	2602.1	2298.3	274.9	169.1	159.5	121.0	85.2	57.7	45.4	42.6	44.0
50°	3135.5	2604.9	214.4	156.7	145.7	101.7	63.2	42.6	35.7	34.4	35.7
52.5°	3694.9	2914.1	188.3	145.7	125.1	81.1	46.7	34.4	30.2	28.9	30.2
55°	4173.3	3113.5	163.6	129.2	100.3	60.5	37.1	30.2	26.1	22.0	22.0
57.5°	4657.1	3213.8	129.2	107.2	74.2	45.4	31.6	26.1	22.0	17.9	16.5
60°	5050.3	3285.3	92.1	79.7	52.2	35.7	27.5	23.4	17.9	13.7	12.4
62.5°	5308.7	3080.5	67.4	60.5	38.5	30.2	23.4	19.2	13.7	9.6	9.6
65°	5180.8	2797.3	52.2	42.6	28.9	23.4	19.2	13.7	9.6	5.5	4.1
67.5°	4648.9	2279.1	42.6	31.6	22.0	17.9	15.1	11.0	5.5	1.4	1.4
70°	3468.1	1670.1	34.4	23.4	17.9	13.7	11.0	6.9	2.7	1.4	0.0
72.5°	1896.9	914.1	27.5	19.2	13.7	11.0	8.2	5.5	2.7	0.0	0.0
75°	626.8	243.3	20.6	13.7	8.2	6.9	5.5	4.1	1.4	0.0	0.0
77.5°	151.2	63.2	16.5	12.4	6.9	4.1	2.7	1.4	1.4	0.0	0.0
80°	46.7	26.1	12.4	8.2	5.5	4.1	1.4	0.0	0.0	0.0	0.0
82.5°	19.2	12.4	5.5	5.5	4.1	1.4	0.0	0.0	0.0	0.0	0.0
85°	9.6	6.9	4.1	2.7	2.7	1.4	0.0	0.0	0.0	0.0	0.0
87.5°	6.9	2.7	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)