

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: P483538

Luminaire Tested: **IFLD-S-SA3A-730-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483538  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-730-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (48) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

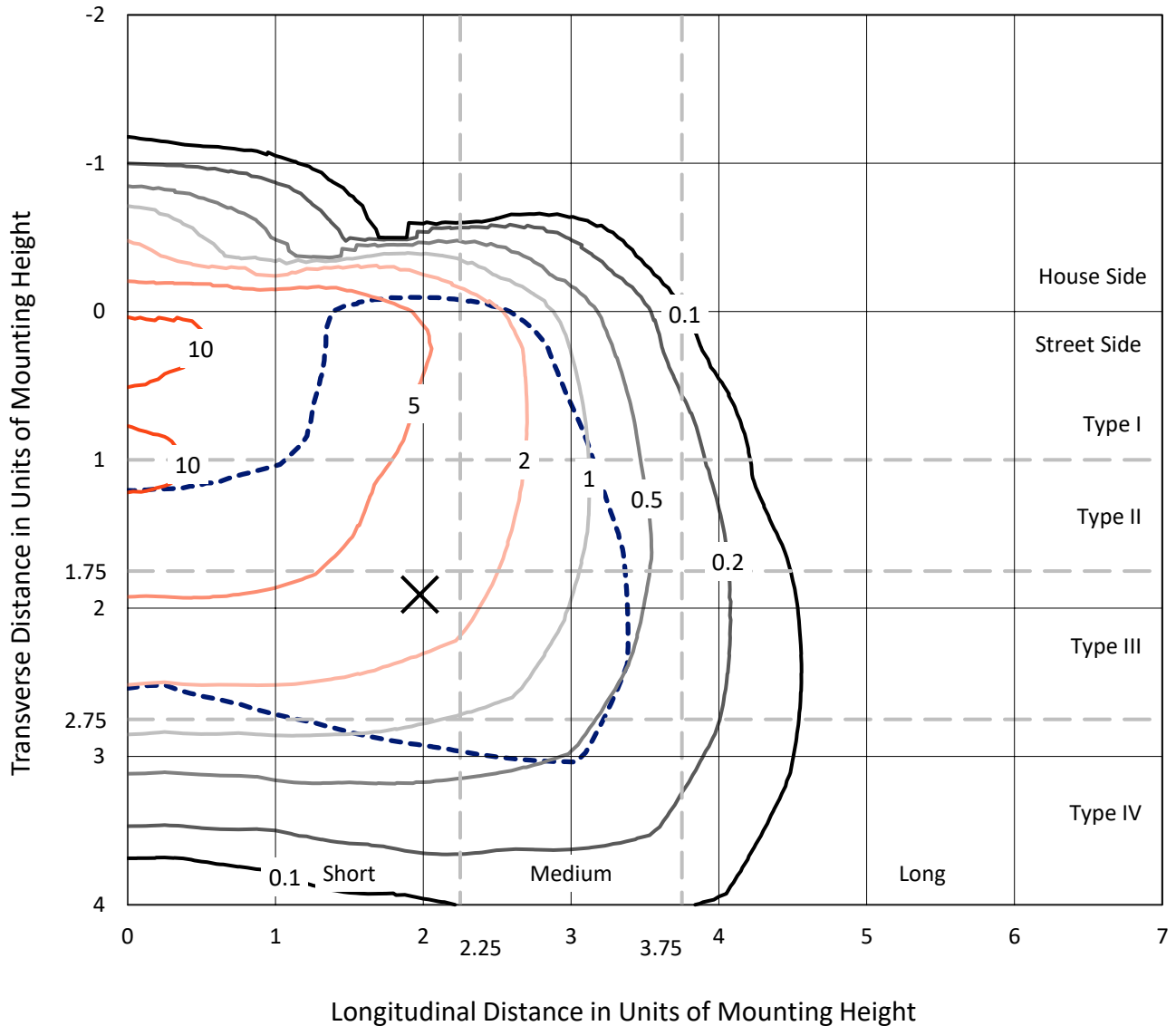
Lumens per Lamp: N/A  
Luminaire Lumens: 9244 lumens  
Efficiency: N/A  
Efficacy: 97.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8  
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

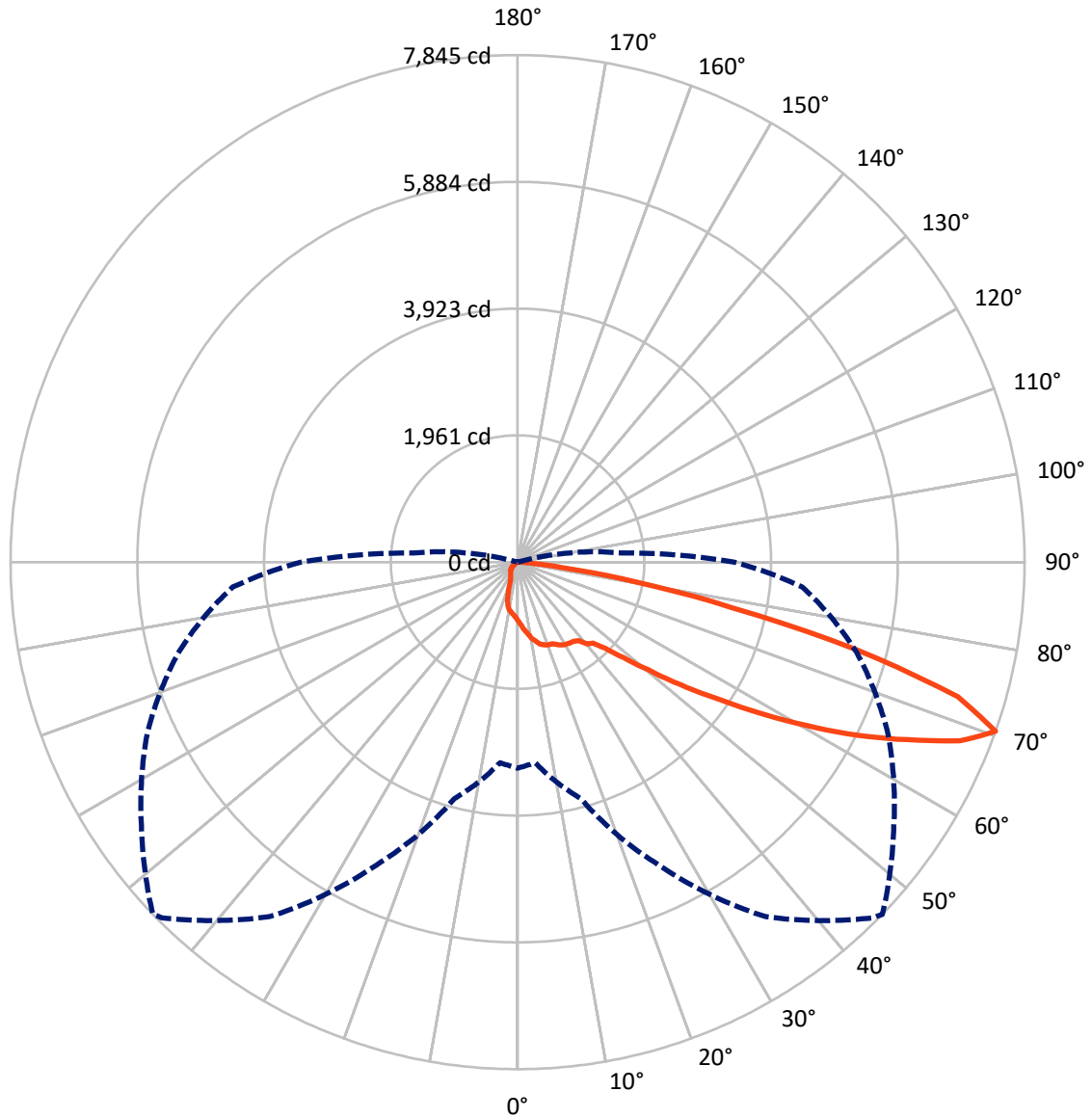
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.2 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
<b>House Side</b>	Lumens	919.8	0.0	919.8
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	8324.2	0.0	8324.2
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	9244.0	0.0	9244.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.5	1.0
10°-20°	273.3	3.0
20°-30°	437.7	4.7
30°-40°	624.8	6.8
40°-50°	1078.8	11.7
50°-60°	2065.4	22.3
60°-70°	3058.6	33.1
70°-80°	1514.9	16.4
80°-90°	100.1	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°	9244.0	100.0
0°-180°	9244.0	100.0



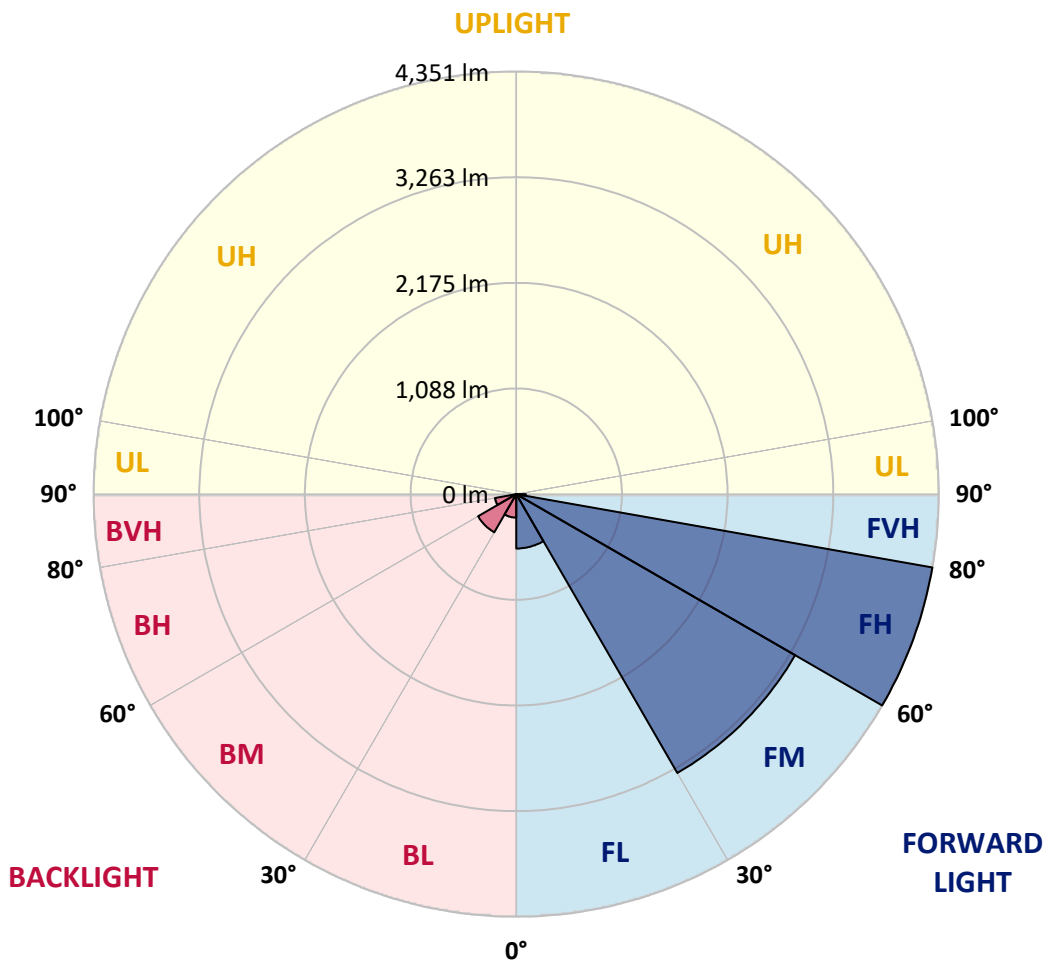
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	559.8	6.1			
FM (30°-60°)	3314.9	35.9			
FH (60°-80°)	4350.7	47.1			G2/5000
FVH (80°-90°)	98.8	1.1			G1/100
BL (0°-30°)	241.6	2.6	B1/500		
BM (30°-60°)	454.1	4.9	B1/1000		
BH (60°-80°)	222.8	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°	907.5	907.5	907.5	907.5	907.5	907.5	907.5	907.5	907.5	907.5	907.5
2.5°	1012.6	1005.9	995.3	991.3	980.7	975.3	967.3	963.4	948.7	934.1	924.8
5°	1136.3	1120.4	1125.7	1109.7	1075.1	1047.2	1045.9	1015.3	982.0	955.4	919.4
7.5°	1261.4	1248.1	1228.1	1205.5	1166.9	1125.7	1113.7	1084.4	1037.9	991.3	943.4
10°	1355.9	1346.6	1329.3	1297.3	1244.1	1197.5	1198.9	1149.6	1100.4	1047.2	982.0
12.5°	1414.4	1418.4	1393.1	1361.2	1314.6	1256.1	1254.8	1221.5	1165.6	1109.7	1032.5
15°	1473.0	1487.6	1449.0	1411.8	1351.9	1309.3	1317.3	1277.4	1222.8	1159.0	1073.8
17.5°	1482.3	1486.3	1478.3	1423.7	1379.8	1343.9	1345.2	1318.6	1277.4	1208.2	1135.0
20°	1466.3	1463.7	1454.3	1414.4	1385.2	1363.9	1365.2	1358.5	1335.9	1280.0	1180.2
22.5°	1419.8	1419.8	1407.8	1381.2	1367.9	1387.8	1371.9	1397.1	1373.2	1339.9	1257.4
25°	1382.5	1397.1	1390.5	1373.2	1378.5	1405.1	1413.1	1437.1	1433.1	1391.8	1310.6
27.5°	1422.4	1405.1	1409.1	1389.1	1409.1	1449.0	1453.0	1470.3	1469.0	1435.7	1358.5
30°	1449.0	1465.0	1434.4	1390.5	1411.8	1479.6	1477.0	1499.6	1510.2	1470.3	1403.8
32.5°	1534.2	1520.9	1495.6	1437.1	1439.7	1478.3	1490.3	1519.5	1526.2	1502.3	1447.7
35°	1708.5	1688.5	1578.1	1490.3	1477.0	1495.6	1503.6	1560.8	1572.8	1546.2	1494.3
37.5°	1977.3	1932.0	1799.0	1604.7	1544.8	1540.8	1540.8	1616.7	1661.9	1600.7	1563.5
40°	2361.8	2298.0	2154.2	1816.3	1634.0	1649.9	1665.9	1707.2	1701.8	1661.9	1653.9
42.5°	2851.5	2802.3	2646.6	2171.5	1804.3	1724.5	1711.2	1767.0	1850.9	1834.9	1829.6
45°	3260.0	3262.6	3162.8	2658.5	2098.4	1896.1	1905.4	1948.0	2089.0	2077.1	2075.7
47.5°	3558.0	3520.8	3506.1	3128.2	2526.8	2222.1	2208.8	2238.1	2421.7	2497.5	2532.1
50°	3829.5	3804.2	3769.6	3584.6	3041.8	2630.6	2617.3	2620.0	2900.7	3007.2	3092.3
52.5°	4166.1	4198.1	4083.6	3970.5	3708.4	3161.5	3146.9	3095.0	3443.6	3590.0	3691.1
55°	4581.3	4521.4	4392.3	4450.9	4345.7	3735.0	3708.4	3647.2	4062.3	4123.5	4230.0
57.5°	4673.1	4627.8	4760.9	4968.5	5069.6	4408.3	4397.6	4287.2	4582.6	4526.7	4827.4
60°	4901.9	4913.9	5098.9	5511.4	5687.0	5185.4	5133.5	4939.2	5086.9	5097.5	5418.2
62.5°	5137.5	5109.5	5523.3	5919.9	6190.0	5921.2	5903.9	5518.0	5685.7	5549.9	5974.4
65°	4964.5	5007.1	5599.2	6263.1	6842.0	6641.0	6626.4	6075.5	6167.3	5998.4	6200.6
67.5°	4349.7	4263.3	5092.2	6106.1	7177.3	7395.5	7379.5	6683.6	6438.8	5995.7	5730.9
70°	3188.1	3113.6	3789.6	5170.7	6696.9	7781.4	7845.2	7106.8	6328.3	5436.8	4421.6
72.5°	1562.1	1563.5	2123.6	3506.1	5298.5	7092.1	7124.0	6516.0	5436.8	4007.8	2504.2
75°	461.7	467.0	786.4	1719.1	3425.0	5386.3	5422.2	4945.9	3768.3	2070.4	854.2
77.5°	169.0	169.0	260.8	645.3	1708.5	3399.7	3397.0	3036.4	1908.1	701.2	199.6
80°	87.8	91.8	135.7	263.5	739.8	1771.0	1837.6	1486.3	725.2	295.4	58.5
82.5°	35.9	39.9	74.5	135.7	355.3	621.4	679.9	582.8	315.4	206.2	26.6
85°	10.6	12.0	35.9	75.8	139.7	155.7	173.0	195.6	198.3	159.7	12.0
87.5°	1.3	1.3	14.6	25.3	30.6	33.3	38.6	38.6	101.1	111.8	6.7
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°	907.5	907.5	907.5	907.5	907.5	907.5	907.5	907.5	907.5	907.5	907.5
2.5°	914.1	907.5	896.8	872.9	867.6	850.3	848.9	833.0	838.3	827.6	823.6
5°	907.5	892.8	863.6	844.9	826.3	814.3	806.3	799.7	798.4	793.0	790.4
7.5°	919.4	899.5	854.2	825.0	793.0	782.4	765.1	763.8	754.5	745.1	745.1
10°	959.4	923.4	874.2	825.0	783.7	749.1	709.2	679.9	669.3	645.3	648.0
12.5°	991.3	959.4	887.5	836.9	774.4	695.9	608.1	540.2	508.3	477.7	489.7
15°	1036.5	990.0	912.8	839.6	738.5	602.8	459.1	383.2	353.9	347.3	346.0
17.5°	1085.8	1036.5	944.7	833.0	665.3	465.7	338.0	294.1	299.4	307.4	306.0
20°	1140.3	1080.4	968.7	810.3	549.5	338.0	276.8	275.4	283.4	295.4	298.1
22.5°	1197.5	1145.6	998.0	742.5	409.8	271.4	266.1	266.1	271.4	286.1	283.4
25°	1261.4	1192.2	1012.6	637.4	294.1	250.2	252.8	258.1	260.8	272.8	274.1
27.5°	1310.6	1244.1	1016.6	511.0	239.5	231.5	238.2	244.8	248.8	258.1	262.1
30°	1355.9	1309.3	995.3	380.6	219.5	215.6	218.2	227.5	235.5	243.5	243.5
32.5°	1413.1	1346.6	946.1	270.1	207.6	200.9	199.6	203.6	212.9	222.2	222.2
35°	1471.6	1409.1	867.6	216.9	196.9	187.6	182.3	178.3	182.3	188.9	194.3
37.5°	1556.8	1503.6	769.1	199.6	188.9	175.6	165.0	155.7	149.0	147.7	151.7
40°	1677.9	1610.0	642.7	187.6	179.6	163.7	147.7	131.7	117.1	107.8	109.1
42.5°	1861.5	1767.0	505.6	181.0	173.0	150.4	127.7	105.1	86.5	77.2	77.2
45°	2123.6	1974.6	371.2	174.3	165.0	134.4	105.1	78.5	59.9	54.6	55.9
47.5°	2518.8	2224.8	266.1	163.7	154.3	117.1	82.5	55.9	43.9	41.2	42.6
50°	3035.1	2521.5	207.6	151.7	141.0	98.5	61.2	41.2	34.6	33.3	34.6
52.5°	3576.7	2820.9	182.3	141.0	121.1	78.5	45.2	33.3	29.3	27.9	29.3
55°	4039.7	3013.8	158.3	125.1	97.1	58.5	35.9	29.3	25.3	21.3	21.3
57.5°	4508.1	3111.0	125.1	103.8	71.9	43.9	30.6	25.3	21.3	17.3	16.0
60°	4888.6	3180.1	89.2	77.2	50.6	34.6	26.6	22.6	17.3	13.3	12.0
62.5°	5138.8	2981.9	65.2	58.5	37.3	29.3	22.6	18.6	13.3	9.3	9.3
65°	5015.0	2707.8	50.6	41.2	27.9	22.6	18.6	13.3	9.3	5.3	4.0
67.5°	4500.1	2206.1	41.2	30.6	21.3	17.3	14.6	10.6	5.3	1.3	1.3
70°	3357.1	1616.7	33.3	22.6	17.3	13.3	10.6	6.7	2.7	1.3	0.0
72.5°	1836.2	884.9	26.6	18.6	13.3	10.6	8.0	5.3	2.7	0.0	0.0
75°	606.8	235.5	20.0	13.3	8.0	6.7	5.3	4.0	1.3	0.0	0.0
77.5°	146.4	61.2	16.0	12.0	6.7	4.0	2.7	1.3	1.3	0.0	0.0
80°	45.2	25.3	12.0	8.0	5.3	4.0	1.3	0.0	0.0	0.0	0.0
82.5°	18.6	12.0	5.3	5.3	4.0	1.3	0.0	0.0	0.0	0.0	0.0
85°	9.3	6.7	4.0	2.7	2.7	1.3	0.0	0.0	0.0	0.0	0.0
87.5°	6.7	2.7	1.3	1.3	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)