

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: P484157

Luminaire Tested: **IFLD-S-SA2A-830-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484157  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-830-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

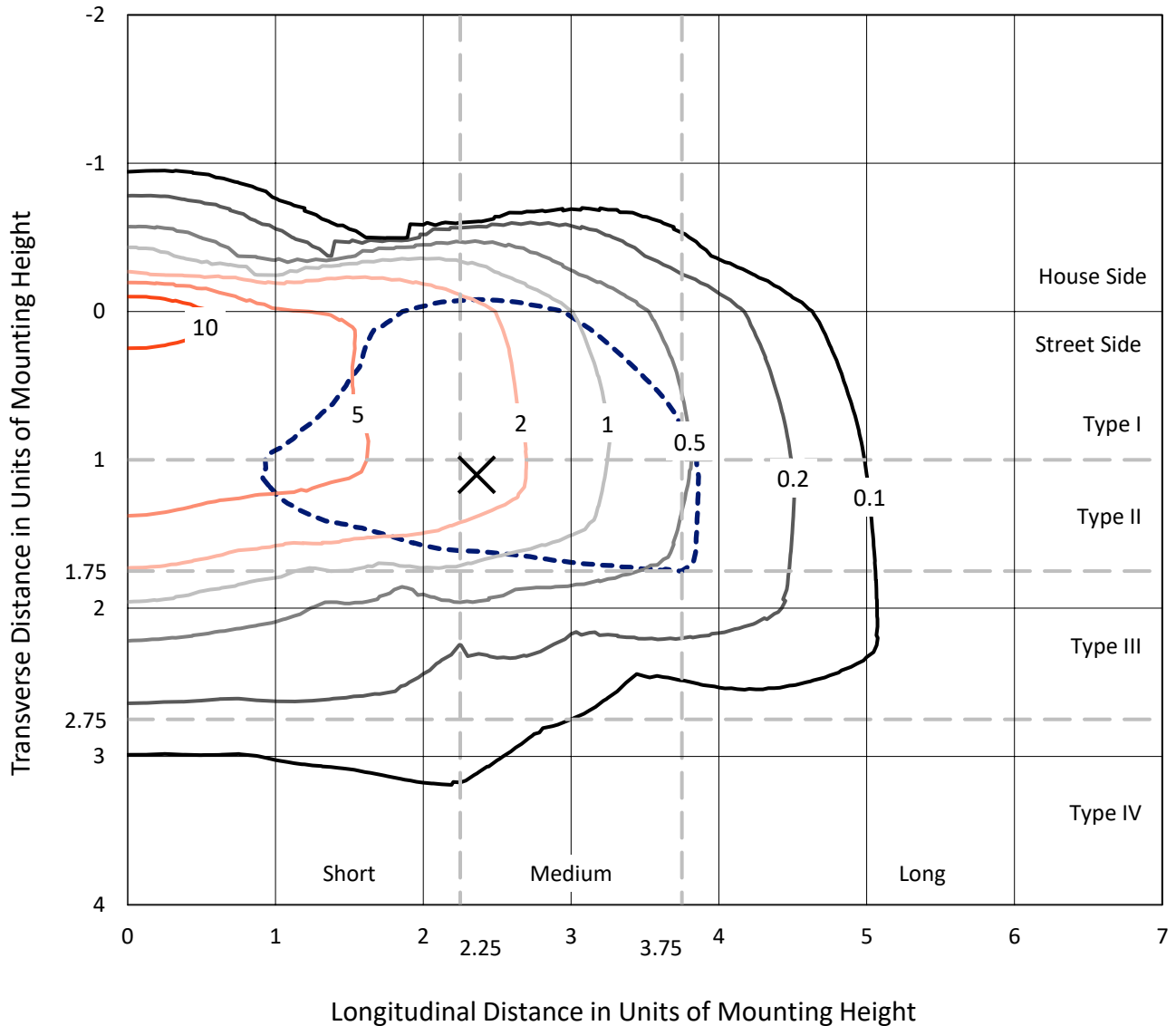
Lumens per Lamp: N/A  
Luminaire Lumens: 6037.8 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8  
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

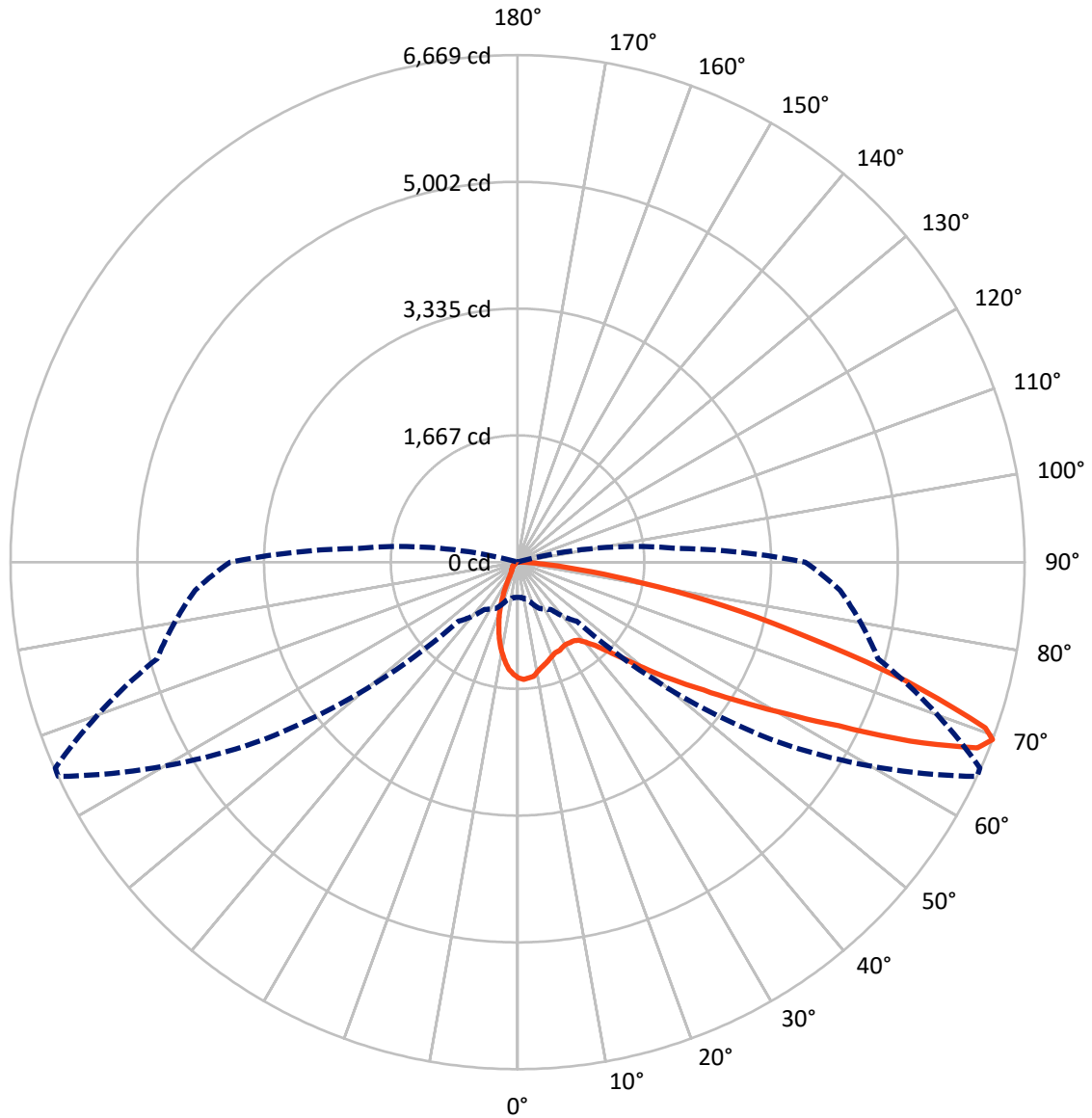
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	732.4	0.0	732.4
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	5305.4	0.0	5305.4
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	6037.8	0.0	6037.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.6	2.1
10°-20°	272.6	4.5
20°-30°	379.5	6.3
30°-40°	537.7	8.9
40°-50°	847.5	14.0
50°-60°	1375.1	22.8
60°-70°	1535.8	25.4
70°-80°	864.8	14.3
80°-90°	100.3	1.7
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°	6037.8	100.0
0°-180°	6037.8	100.0

**Coefficient of Utilization**

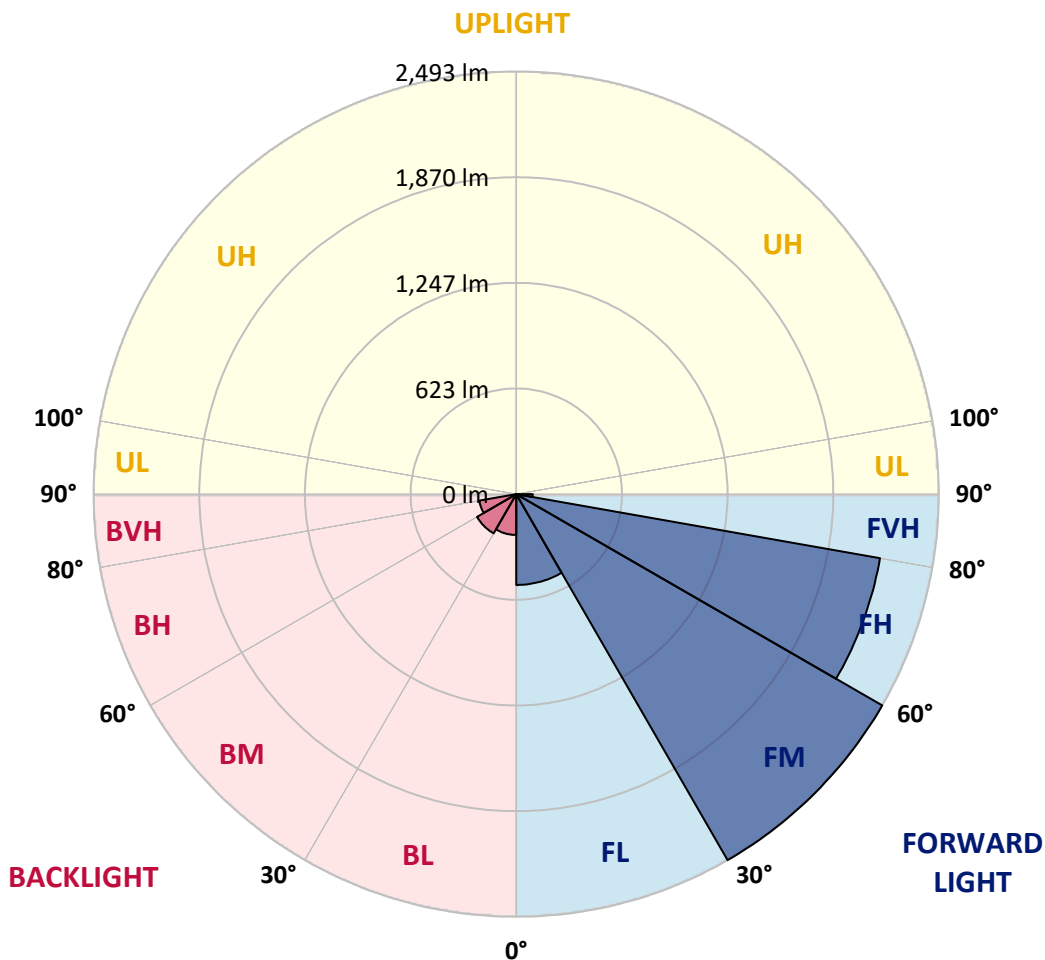


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	535.8	8.9			
FM (30°-60°)	2493.1	41.3			
FH (60°-80°)	2179.0	36.1			G2/5000
FVH (80°-90°)	97.6	1.6			G1/100
BL (0°-30°)	240.8	4.0	B1/500		
BM (30°-60°)	267.3	4.4	B1/1000		
BH (60°-80°)	221.6	3.7	B1/500		G1/500
BVH (80°-90°)	2.8	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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1522.3	1522.3	1522.3	1522.3	1522.3	1522.3	1522.3	1522.3	1522.3	1522.3	1522.3
2.5°	1466.1	1477.5	1480.7	1492.1	1497.8	1522.3	1536.1	1544.3	1540.2	1549.2	1550.0
5°	1361.8	1355.3	1372.4	1384.6	1410.7	1453.0	1496.2	1529.6	1545.1	1559.7	1557.3
7.5°	1250.2	1247.0	1264.1	1291.8	1315.4	1366.7	1435.9	1518.2	1515.0	1550.8	1561.4
10°	1173.7	1176.9	1182.6	1210.3	1245.4	1297.5	1383.8	1460.4	1477.5	1553.2	1574.4
12.5°	1103.6	1109.3	1119.9	1148.4	1189.2	1242.9	1326.8	1416.4	1442.5	1539.4	1581.7
15°	1080.8	1067.8	1089.0	1110.1	1152.5	1200.6	1271.4	1383.0	1394.4	1523.1	1594.0
17.5°	1062.1	1053.9	1063.7	1080.8	1125.6	1164.7	1231.5	1347.2	1368.3	1516.6	1592.3
20°	1067.8	1060.5	1064.5	1077.6	1097.9	1134.6	1196.5	1313.0	1335.8	1486.4	1589.9
22.5°	1084.1	1089.8	1082.5	1085.7	1092.2	1111.0	1177.8	1288.5	1308.1	1480.7	1603.7
25°	1157.4	1147.6	1137.8	1133.8	1095.5	1103.6	1172.1	1286.9	1300.7	1460.4	1592.3
27.5°	1234.0	1225.8	1221.7	1198.1	1146.0	1121.6	1172.9	1264.1	1282.8	1452.2	1578.5
30°	1326.8	1337.4	1321.1	1292.6	1220.1	1159.8	1181.8	1252.7	1278.7	1421.3	1569.5
32.5°	1424.5	1430.2	1438.4	1417.2	1323.5	1217.7	1208.7	1263.3	1264.9	1421.3	1549.2
35°	1535.3	1527.2	1548.3	1550.0	1467.7	1320.3	1260.0	1270.6	1287.7	1414.8	1541.8
37.5°	1630.6	1644.5	1668.9	1708.0	1623.3	1465.3	1339.8	1304.8	1312.1	1444.9	1547.5
40°	1734.9	1748.7	1804.1	1843.2	1795.1	1628.2	1461.2	1384.6	1390.3	1489.7	1576.9
42.5°	1849.7	1876.6	1942.6	2011.0	1997.9	1835.0	1617.6	1501.9	1499.5	1601.3	1637.1
45°	2005.3	2041.1	2112.8	2191.8	2203.2	2072.1	1826.1	1677.0	1685.2	1747.1	1761.7
47.5°	2221.9	2220.3	2290.3	2378.3	2444.3	2318.0	2075.3	1912.4	1911.6	1977.6	1946.6
50°	2431.3	2432.1	2450.8	2552.6	2723.7	2659.3	2384.0	2225.2	2216.2	2248.8	2199.1
52.5°	2528.2	2516.8	2502.9	2625.9	2938.7	3089.4	2775.0	2579.5	2572.2	2552.6	2539.6
55°	2426.4	2430.4	2429.6	2557.5	3051.9	3543.0	3276.7	2969.6	2957.4	2896.3	2914.2
57.5°	2099.8	2086.7	2115.2	2314.8	2922.4	3852.5	3994.3	3461.6	3429.8	3227.0	3186.3
60°	1563.0	1567.1	1590.7	1826.1	2600.7	3917.7	4680.9	4039.1	3902.2	3460.0	3403.8
62.5°	1091.4	1083.3	1092.2	1224.2	1859.5	3657.1	5145.1	4741.1	4609.2	3724.7	3692.1
65°	781.1	770.5	806.3	887.0	1116.7	2796.1	5211.1	5676.2	5558.1	4147.4	4069.2
67.5°	562.0	560.4	601.9	748.5	793.3	1610.2	4722.4	6523.2	6451.6	4649.1	4298.9
69°	465.1	465.9	505.8	670.3	757.5	1099.6	4063.5	6669.0	6656.0	4908.1	4255.7
70°	405.6	408.9	455.3	623.9	742.8	904.1	3503.1	6525.7	6512.7	4958.6	4113.2
72.5°	250.0	252.5	313.6	500.1	706.2	737.9	2094.9	5339.0	5383.8	4727.3	3543.8
75°	119.7	120.5	164.5	361.6	680.9	699.6	1122.4	3939.7	4034.2	3816.7	2769.3
77.5°	63.5	63.5	79.0	192.2	551.4	658.1	666.3	2779.0	2857.2	2413.3	1574.4
80°	31.8	32.6	48.1	100.2	342.1	645.1	520.5	1657.5	1699.8	984.7	490.3
82.5°	12.2	13.0	22.8	60.3	177.6	544.9	456.9	815.3	804.7	230.5	119.7
85°	1.6	1.6	8.1	35.8	75.7	240.3	377.1	340.5	329.1	50.5	57.8
87.5°	0.0	0.0	1.6	10.6	22.8	70.0	145.8	93.7	104.3	13.8	28.5
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°	1522.3	1522.3	1522.3	1522.3	1522.3	1522.3	1522.3	1522.3	1522.3	1522.3	1522.3
2.5°	1545.9	1528.8	1502.7	1477.5	1450.6	1418.0	1382.2	1369.2	1346.4	1344.7	1357.8
5°	1544.3	1516.6	1471.0	1417.2	1340.7	1282.8	1220.1	1174.5	1139.5	1116.7	1122.4
7.5°	1552.4	1519.0	1440.0	1324.4	1225.8	1111.0	1014.0	947.3	886.2	856.0	852.8
10°	1539.4	1494.6	1378.9	1216.8	1071.9	911.4	769.7	680.1	588.9	555.5	557.1
12.5°	1546.7	1484.0	1313.0	1106.1	906.5	698.0	528.6	406.4	320.9	293.2	290.0
15°	1551.6	1461.2	1249.4	973.3	723.3	475.7	306.2	230.5	203.6	198.7	197.9
17.5°	1532.9	1433.5	1159.8	842.2	535.9	289.1	203.6	188.1	183.3	180.0	178.4
20°	1532.1	1417.2	1082.5	707.8	357.6	197.1	175.9	170.2	162.9	160.5	160.5
22.5°	1518.2	1383.0	989.6	560.4	228.1	169.4	158.0	149.1	140.9	137.6	136.8
25°	1514.1	1343.1	902.5	421.1	173.5	151.5	140.1	127.1	117.3	112.4	110.0
27.5°	1502.7	1308.9	814.5	296.5	151.5	135.2	120.5	106.7	95.3	88.0	87.2
30°	1462.0	1273.0	716.8	205.3	137.6	119.7	103.4	87.2	75.7	70.9	69.2
32.5°	1444.9	1239.7	610.1	158.0	125.4	105.9	87.2	72.5	63.5	58.6	57.8
35°	1424.5	1190.8	506.6	137.6	114.0	92.0	73.3	61.1	53.8	49.7	49.7
37.5°	1427.0	1151.7	409.7	124.6	101.8	79.0	62.7	52.1	45.6	41.5	41.5
40°	1419.7	1120.7	318.5	113.2	90.4	67.6	52.9	44.0	38.3	34.2	33.4
42.5°	1453.0	1112.6	240.3	103.4	79.0	57.8	45.6	37.5	31.8	26.9	26.9
45°	1509.2	1125.6	187.3	94.5	67.6	49.7	39.1	31.0	25.2	22.0	21.2
47.5°	1659.1	1176.9	146.6	87.2	57.8	43.2	32.6	25.2	20.4	17.1	16.3
50°	1876.6	1291.8	124.6	76.6	48.9	36.7	26.9	19.5	16.3	13.0	12.2
52.5°	2186.1	1484.8	113.2	67.6	40.7	30.1	21.2	15.5	12.2	9.8	9.0
55°	2523.3	1725.9	102.6	57.0	34.2	24.4	17.1	12.2	9.0	6.5	5.7
57.5°	2786.4	1934.4	93.7	47.2	27.7	19.5	13.0	9.0	6.5	4.1	3.3
60°	3073.9	2081.0	82.3	37.5	22.8	14.7	9.8	6.5	4.9	2.4	2.4
62.5°	3370.4	2252.9	67.6	29.3	17.9	11.4	7.3	4.9	3.3	0.8	0.8
65°	3782.5	2387.3	52.1	22.8	13.8	8.1	5.7	4.1	1.6	0.0	0.0
67.5°	3899.0	2321.3	38.3	17.9	9.8	5.7	4.1	2.4	0.8	0.0	0.0
69°	3782.5	2090.8	33.4	15.5	8.1	4.9	3.3	1.6	0.8	0.0	0.0
70°	3569.9	1911.6	29.3	13.0	7.3	4.9	2.4	1.6	0.8	0.0	0.0
72.5°	2985.9	1466.1	22.8	9.8	5.7	4.1	2.4	1.6	0.0	0.0	0.0
75°	2190.2	905.7	17.1	7.3	4.9	3.3	2.4	1.6	0.0	0.0	0.0
77.5°	1173.7	330.7	12.2	4.9	3.3	2.4	2.4	1.6	0.0	0.0	0.0
80°	321.7	97.7	9.0	3.3	2.4	1.6	1.6	0.8	0.0	0.0	0.0
82.5°	88.0	25.2	5.7	3.3	2.4	1.6	0.8	0.0	0.0	0.0	0.0
85°	47.2	9.8	3.3	2.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0
87.5°	24.4	3.3	2.4	1.6	1.6	0.8	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)