

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: P483845

Luminaire Tested: **IFLD-S-SA2A-722-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483845
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-722-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

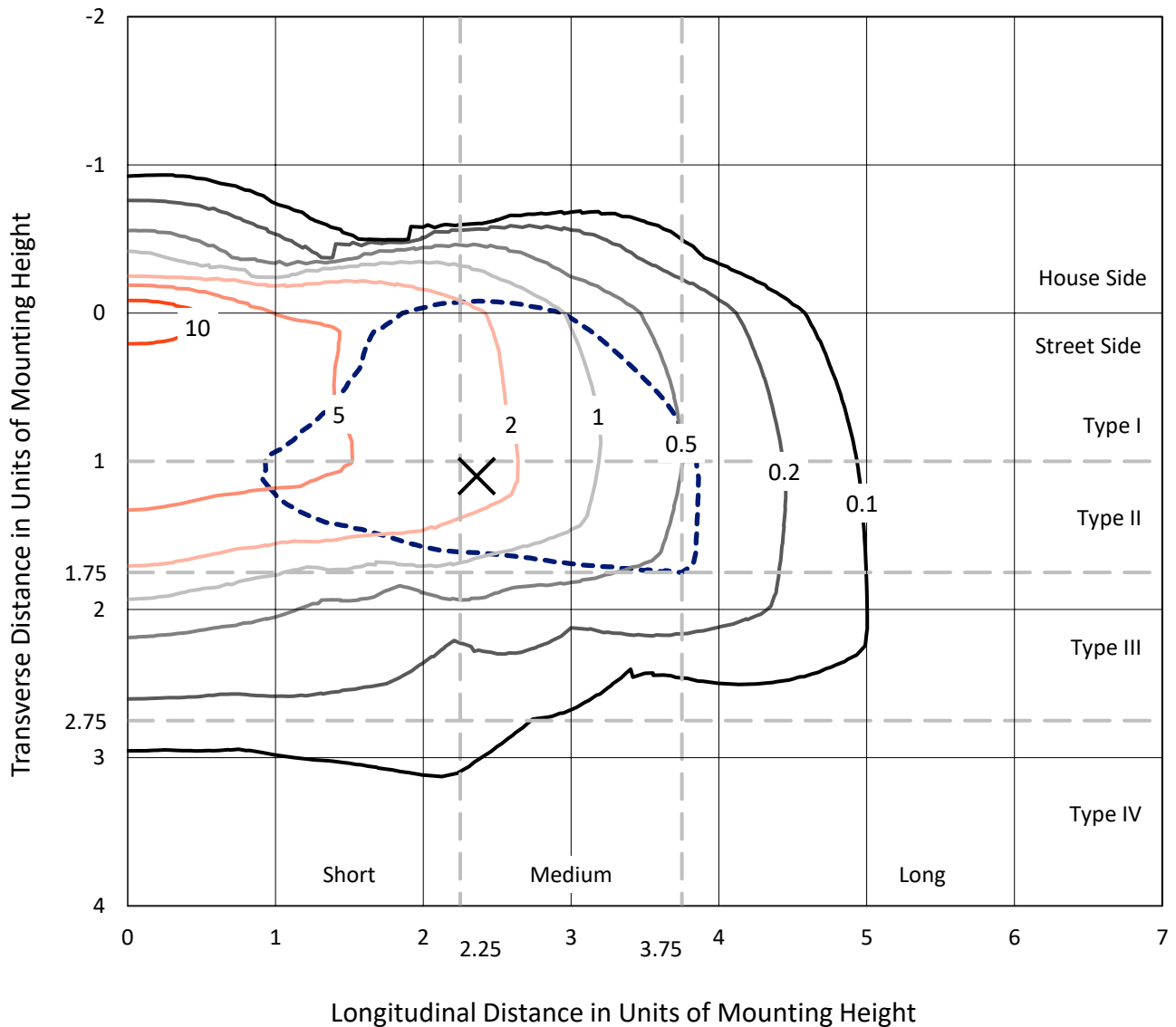
Lumens per Lamp: N/A
Luminaire Lumens: 5597.1 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

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

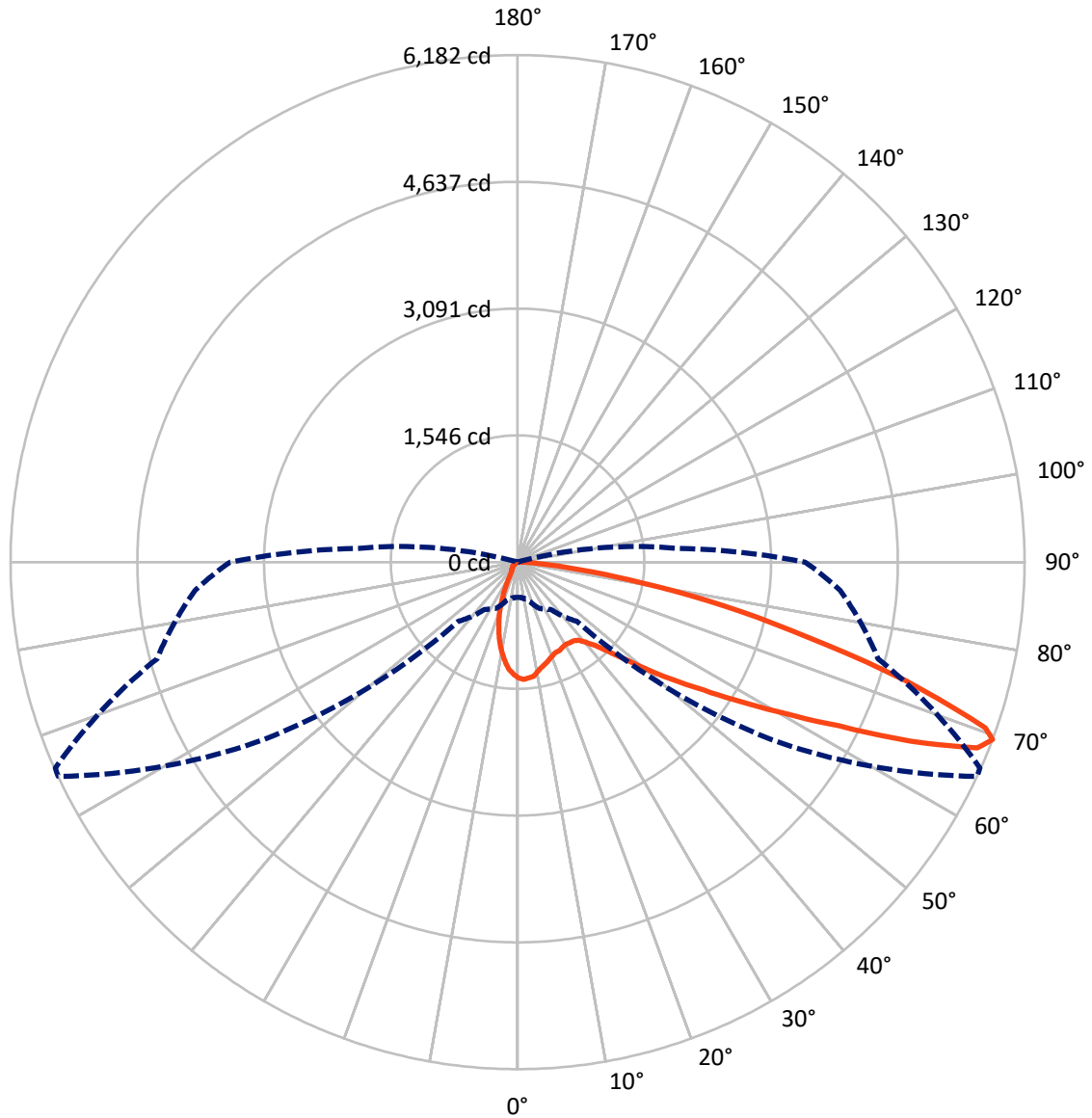
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.1 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
House Side	Lumens	679.0	0.0	679.0
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	4918.2	0.0	4918.2
	% Fixture	87.9	0.0	87.9
Total	Lumens	5597.1	0.0	5597.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.5	2.1
10°-20°	252.7	4.5
20°-30°	351.8	6.3
30°-40°	498.5	8.9
40°-50°	785.6	14.0
50°-60°	1274.8	22.8
60°-70°	1423.7	25.4
70°-80°	801.7	14.3
80°-90°	93.0	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°	5597.1	100.0
0°-180°	5597.1	100.0



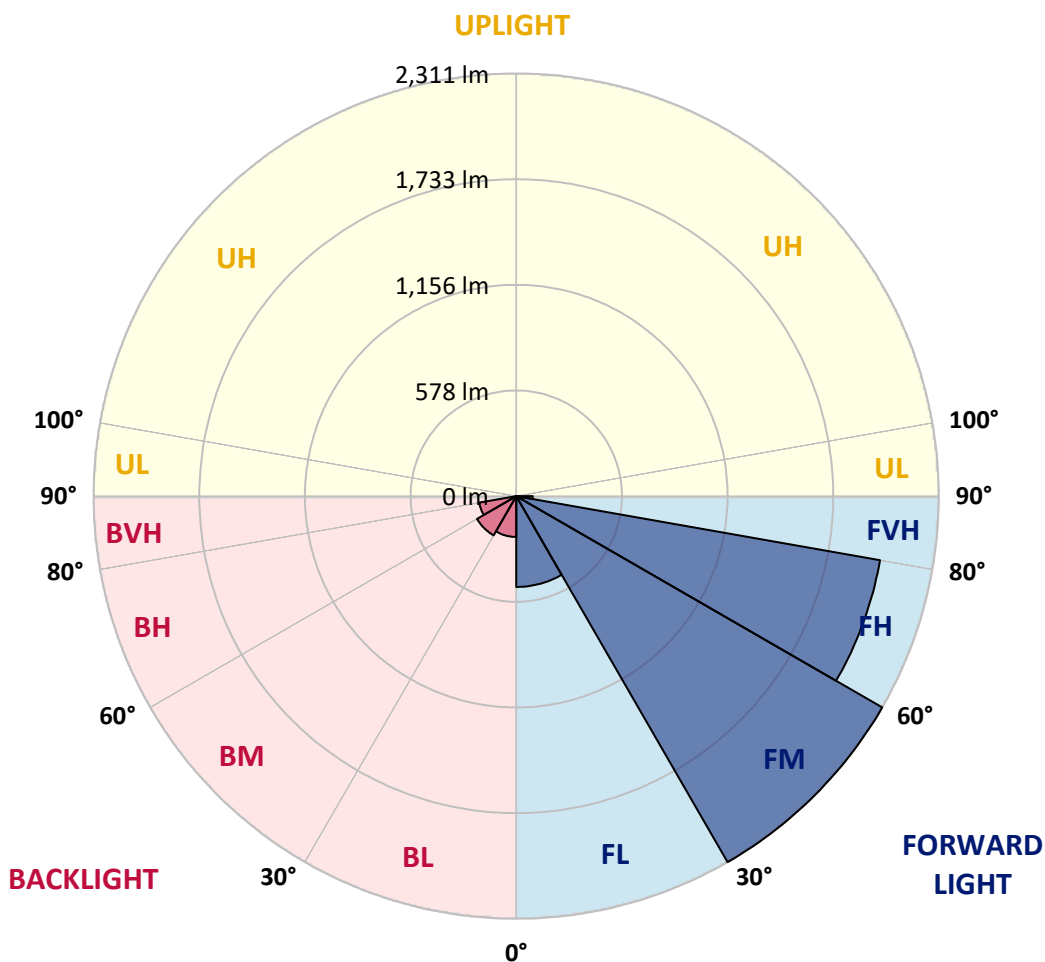
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	496.7	8.9			
FM (30°-60°)	2311.1	41.3			
FH (60°-80°)	2019.9	36.1			G2/5000
FVH (80°-90°)	90.5	1.6			G1/100
BL (0°-30°)	223.2	4.0	B1/500		
BM (30°-60°)	247.8	4.4	B1/1000		
BH (60°-80°)	205.4	3.7	B1/500		G1/500
BVH (80°-90°)	2.6	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°	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2
2.5°	1359.1	1369.6	1372.7	1383.2	1388.5	1411.2	1424.0	1431.6	1427.8	1436.1	1436.8
5°	1262.4	1256.4	1272.2	1283.6	1307.7	1347.0	1387.0	1418.0	1432.3	1445.9	1443.6
7.5°	1159.0	1156.0	1171.8	1197.5	1219.4	1267.0	1331.1	1407.4	1404.4	1437.6	1447.4
10°	1088.0	1091.0	1096.3	1122.0	1154.5	1202.8	1282.8	1353.8	1369.6	1439.9	1459.5
12.5°	1023.1	1028.4	1038.2	1064.6	1102.4	1152.2	1230.0	1313.0	1337.2	1427.0	1466.3
15°	1001.9	989.9	1009.5	1029.1	1068.4	1112.9	1178.6	1282.1	1292.6	1411.9	1477.6
17.5°	984.6	977.0	986.1	1001.9	1043.5	1079.7	1141.6	1248.8	1268.5	1405.9	1476.1
20°	989.9	983.1	986.8	998.9	1017.8	1051.8	1109.2	1217.1	1238.3	1377.9	1473.8
22.5°	1005.0	1010.2	1003.4	1006.5	1012.5	1029.9	1091.8	1194.5	1212.6	1372.7	1486.7
25°	1072.9	1063.8	1054.8	1051.0	1015.5	1023.1	1086.5	1193.0	1205.8	1353.8	1476.1
27.5°	1143.9	1136.3	1132.6	1110.7	1062.3	1039.7	1087.3	1171.8	1189.2	1346.2	1463.3
30°	1230.0	1239.8	1224.7	1198.2	1131.0	1075.2	1095.6	1161.2	1185.4	1317.5	1455.0
32.5°	1320.6	1325.8	1333.4	1313.8	1226.9	1128.8	1120.5	1171.1	1172.6	1317.5	1436.1
35°	1423.2	1415.7	1435.3	1436.8	1360.6	1223.9	1168.0	1177.9	1193.7	1311.5	1429.3
37.5°	1511.6	1524.4	1547.1	1583.3	1504.8	1358.3	1242.0	1209.6	1216.4	1339.4	1434.6
40°	1608.2	1621.1	1672.4	1708.7	1664.1	1509.3	1354.5	1283.6	1288.8	1381.0	1461.8
42.5°	1714.7	1739.6	1800.8	1864.2	1852.1	1701.1	1499.5	1392.3	1390.0	1484.4	1517.6
45°	1858.9	1892.1	1958.6	2031.8	2042.4	1920.8	1692.8	1554.6	1562.2	1619.6	1633.1
47.5°	2059.7	2058.2	2123.2	2204.7	2265.9	2148.8	1923.8	1772.8	1772.1	1833.2	1804.5
50°	2253.8	2254.5	2271.9	2366.3	2524.8	2465.2	2210.0	2062.8	2054.5	2084.7	2038.6
52.5°	2343.6	2333.1	2320.2	2434.2	2724.2	2863.9	2572.4	2391.2	2384.4	2366.3	2354.2
55°	2249.3	2253.0	2252.3	2370.8	2829.1	3284.4	3037.5	2752.9	2741.5	2684.9	2701.5
57.5°	1946.5	1934.4	1960.8	2145.8	2709.1	3571.3	3702.7	3208.9	3179.5	2991.5	2953.7
60°	1448.9	1452.7	1474.6	1692.8	2410.8	3631.7	4339.2	3744.2	3617.4	3207.4	3155.3
62.5°	1011.8	1004.2	1012.5	1134.8	1723.8	3390.1	4769.6	4395.1	4272.8	3452.8	3422.6
65°	724.1	714.3	747.5	822.2	1035.2	2592.0	4830.7	5261.9	5152.4	3844.7	3772.2
67.5°	521.0	519.5	558.0	693.9	735.4	1492.7	4377.7	6047.1	5980.7	4309.8	3985.1
69°	431.1	431.9	468.9	621.4	702.2	1019.3	3766.9	6182.3	6170.2	4549.9	3945.1
70°	376.0	379.0	422.1	578.4	688.6	838.1	3247.4	6049.4	6037.3	4596.7	3812.9
72.5°	231.8	234.1	290.7	463.6	654.6	684.1	1942.0	4949.3	4990.8	4382.2	3285.2
75°	111.0	111.7	152.5	335.2	631.2	648.6	1040.4	3652.1	3739.7	3538.1	2567.1
77.5°	58.9	58.9	73.2	178.2	511.2	610.1	617.6	2576.2	2648.7	2237.2	1459.5
80°	29.4	30.2	44.5	92.9	317.1	598.0	482.5	1536.5	1575.8	912.8	454.5
82.5°	11.3	12.1	21.1	55.9	164.6	505.1	423.6	755.8	746.0	213.7	111.0
85°	1.5	1.5	7.6	33.2	70.2	222.7	349.6	315.6	305.0	46.8	53.6
87.5°	0.0	0.0	1.5	9.8	21.1	64.9	135.2	86.8	96.6	12.8	26.4
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°	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2	1411.2
2.5°	1433.1	1417.2	1393.0	1369.6	1344.7	1314.5	1281.3	1269.2	1248.1	1246.6	1258.6
5°	1431.6	1405.9	1363.6	1313.8	1242.8	1189.2	1131.0	1088.8	1056.3	1035.2	1040.4
7.5°	1439.1	1408.1	1334.9	1227.7	1136.3	1029.9	940.0	878.1	821.5	793.5	790.5
10°	1427.0	1385.5	1278.3	1128.0	993.6	844.9	713.5	630.5	545.9	514.9	516.4
12.5°	1433.8	1375.7	1217.1	1025.3	840.4	647.1	490.0	376.8	297.5	271.8	268.8
15°	1438.3	1354.5	1158.2	902.3	670.5	440.9	283.9	213.7	188.8	184.2	183.5
17.5°	1421.0	1328.9	1075.2	780.7	496.8	268.0	188.8	174.4	169.9	166.9	165.4
20°	1420.2	1313.8	1003.4	656.1	331.5	182.7	163.1	157.8	151.0	148.7	148.7
22.5°	1407.4	1282.1	917.4	519.5	211.4	157.0	146.5	138.2	130.6	127.6	126.8
25°	1403.6	1245.1	836.6	390.4	160.8	140.4	129.9	117.8	108.7	104.2	101.9
27.5°	1393.0	1213.3	755.0	274.8	140.4	125.3	111.7	98.9	88.3	81.5	80.8
30°	1355.3	1180.1	664.4	190.3	127.6	111.0	95.9	80.8	70.2	65.7	64.2
32.5°	1339.4	1149.2	565.5	146.5	116.3	98.2	80.8	67.2	58.9	54.4	53.6
35°	1320.6	1103.9	469.6	127.6	105.7	85.3	68.0	56.6	49.8	46.1	46.1
37.5°	1322.8	1067.6	379.8	115.5	94.4	73.2	58.1	48.3	42.3	38.5	38.5
40°	1316.0	1038.9	295.2	105.0	83.8	62.7	49.1	40.8	35.5	31.7	31.0
42.5°	1347.0	1031.4	222.7	95.9	73.2	53.6	42.3	34.7	29.4	24.9	24.9
45°	1399.1	1043.5	173.7	87.6	62.7	46.1	36.2	28.7	23.4	20.4	19.6
47.5°	1538.0	1091.0	135.9	80.8	53.6	40.0	30.2	23.4	18.9	15.9	15.1
50°	1739.6	1197.5	115.5	71.0	45.3	34.0	24.9	18.1	15.1	12.1	11.3
52.5°	2026.5	1376.4	105.0	62.7	37.8	27.9	19.6	14.3	11.3	9.1	8.3
55°	2339.1	1599.9	95.1	52.9	31.7	22.7	15.9	11.3	8.3	6.0	5.3
57.5°	2583.0	1793.2	86.8	43.8	25.7	18.1	12.1	8.3	6.0	3.8	3.0
60°	2849.5	1929.1	76.3	34.7	21.1	13.6	9.1	6.0	4.5	2.3	2.3
62.5°	3124.3	2088.4	62.7	27.2	16.6	10.6	6.8	4.5	3.0	0.8	0.8
65°	3506.4	2213.0	48.3	21.1	12.8	7.6	5.3	3.8	1.5	0.0	0.0
67.5°	3614.4	2151.9	35.5	16.6	9.1	5.3	3.8	2.3	0.8	0.0	0.0
69°	3506.4	1938.2	31.0	14.3	7.6	4.5	3.0	1.5	0.8	0.0	0.0
70°	3309.3	1772.1	27.2	12.1	6.8	4.5	2.3	1.5	0.8	0.0	0.0
72.5°	2768.0	1359.1	21.1	9.1	5.3	3.8	2.3	1.5	0.0	0.0	0.0
75°	2030.3	839.6	15.9	6.8	4.5	3.0	2.3	1.5	0.0	0.0	0.0
77.5°	1088.0	306.5	11.3	4.5	3.0	2.3	2.3	1.5	0.0	0.0	0.0
80°	298.2	90.6	8.3	3.0	2.3	1.5	1.5	0.8	0.0	0.0	0.0
82.5°	81.5	23.4	5.3	3.0	2.3	1.5	0.8	0.0	0.0	0.0	0.0
85°	43.8	9.1	3.0	2.3	1.5	0.8	0.0	0.0	0.0	0.0	0.0
87.5°	22.7	3.0	2.3	1.5	1.5	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)