

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: P484781

Luminaire Tested: **IFLD-S-SA2A-740-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484781  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-740-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

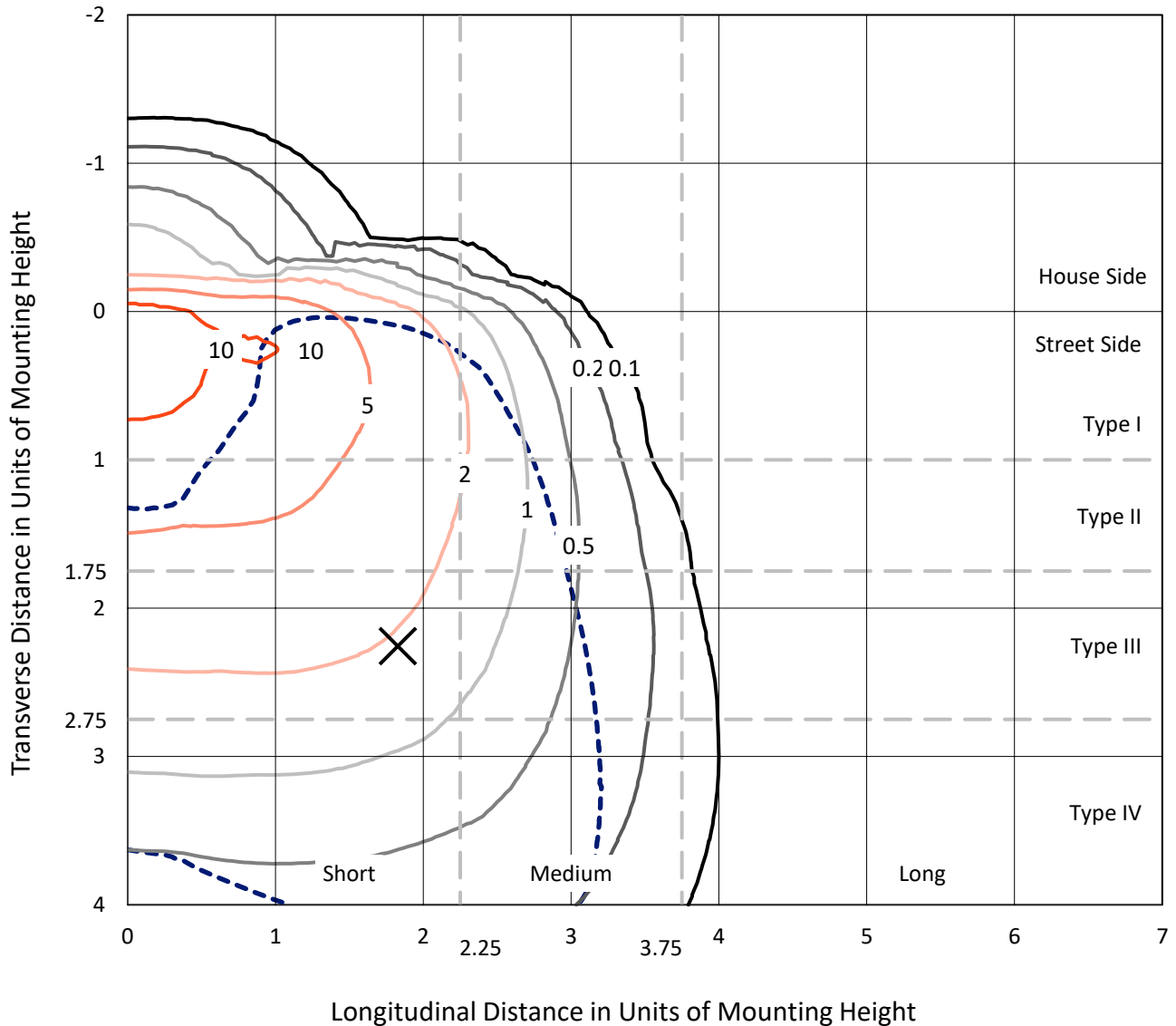
Lumens per Lamp: N/A  
Luminaire Lumens: 7626.9 lumens  
Efficiency: N/A  
Efficacy: 119.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

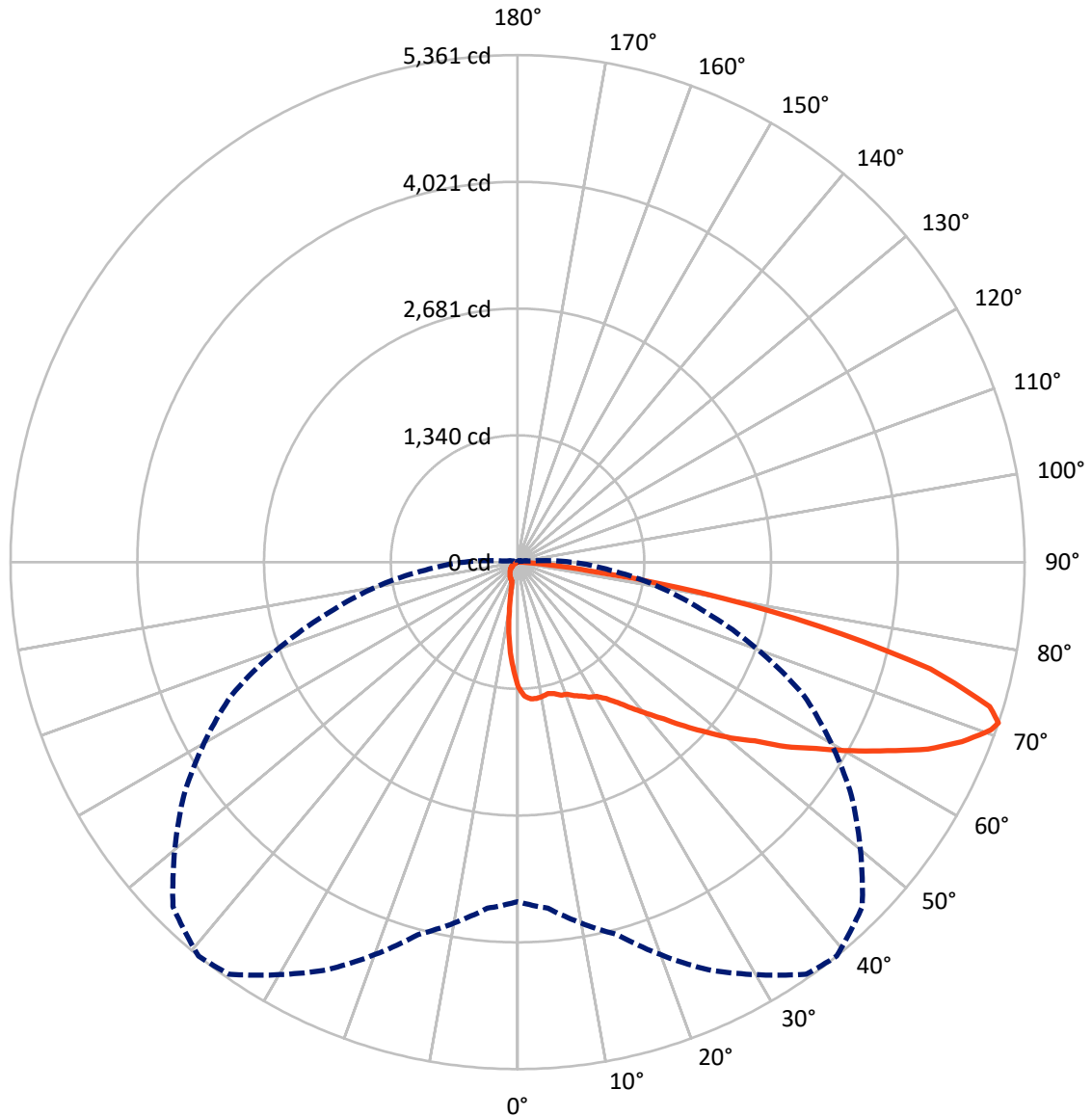
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	574.2	0.0	574.2
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	7052.7	0.0	7052.7
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	7626.9	0.0	7626.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.0	1.5
10°-20°	273.2	3.6
20°-30°	438.6	5.8
30°-40°	671.3	8.8
40°-50°	1077.6	14.1
50°-60°	1582.8	20.8
60°-70°	1993.4	26.1
70°-80°	1330.4	17.4
80°-90°	148.7	1.9
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°	7626.9	100.0
0°-180°	7626.9	100.0



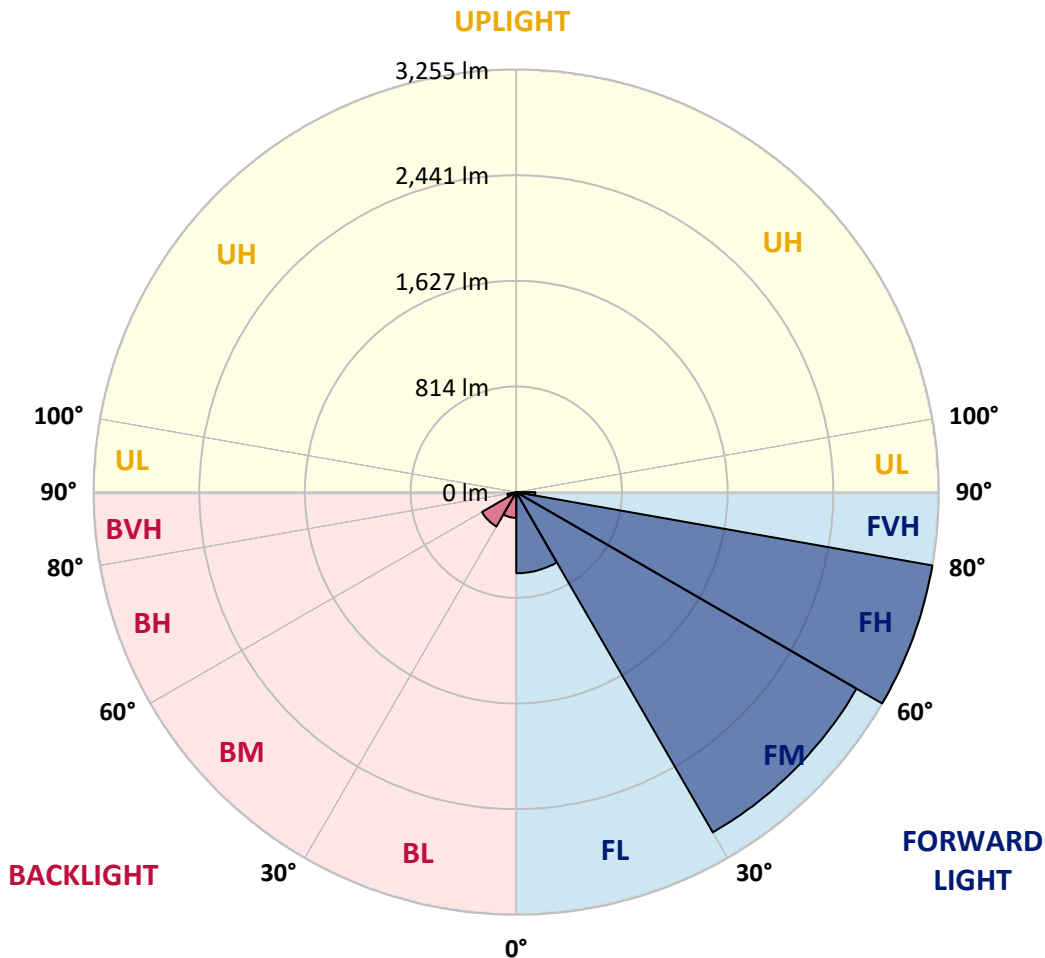
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	624.5	8.2			
FM (30°-60°)	3026.5	39.7			
FH (60°-80°)	3254.7	42.7			G2/5000
FVH (80°-90°)	147.0	1.9			G2/225
BL (0°-30°)	198.2	2.6	B1/500		
BM (30°-60°)	305.2	4.0	B1/1000		
BH (60°-80°)	69.1	0.9	B0/110		G0/110
BVH (80°-90°)	1.6	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1327.5	1327.5	1327.5	1327.5	1327.5	1327.5	1327.5	1327.5	1327.5	1327.5	1327.5
2.5°	1430.5	1444.6	1430.5	1424.5	1418.5	1419.5	1403.5	1406.5	1387.5	1362.5	1342.5
5°	1475.6	1494.6	1479.6	1472.6	1471.6	1452.6	1444.6	1425.5	1402.5	1363.5	1339.5
7.5°	1471.6	1467.6	1474.6	1468.6	1455.6	1455.6	1446.6	1419.5	1396.5	1352.5	1311.5
10°	1441.6	1453.6	1447.6	1440.6	1443.6	1444.6	1427.5	1408.5	1401.5	1357.5	1290.5
12.5°	1438.6	1418.5	1440.6	1441.6	1428.5	1427.5	1425.5	1420.5	1398.5	1358.5	1295.5
15°	1428.5	1420.5	1442.6	1443.6	1446.6	1443.6	1446.6	1442.6	1420.5	1397.5	1317.5
17.5°	1436.6	1427.5	1458.6	1473.6	1466.6	1480.6	1475.6	1457.6	1438.6	1411.5	1338.5
20°	1438.6	1451.6	1485.6	1491.6	1513.6	1490.6	1489.6	1470.6	1458.6	1429.5	1351.5
22.5°	1475.6	1481.6	1523.6	1536.6	1537.6	1534.6	1509.6	1487.6	1482.6	1446.6	1354.5
25°	1531.6	1552.6	1571.6	1579.6	1582.6	1568.6	1542.6	1514.6	1502.6	1479.6	1385.5
27.5°	1630.6	1617.6	1634.6	1646.6	1612.6	1617.6	1584.6	1560.6	1543.6	1523.6	1421.5
30°	1718.7	1706.7	1707.7	1705.7	1676.6	1649.6	1640.6	1598.6	1577.6	1585.6	1477.6
32.5°	1797.7	1771.7	1793.7	1783.7	1729.7	1721.7	1714.7	1661.6	1665.6	1702.7	1561.6
35°	1870.7	1861.7	1879.7	1861.7	1825.7	1823.7	1816.7	1770.7	1792.7	1845.7	1705.7
37.5°	1937.7	1940.7	1962.8	1953.8	1956.8	1958.8	1954.8	1905.7	1968.8	2087.8	1873.7
40°	1999.8	1995.8	2049.8	2077.8	2083.8	2105.8	2105.8	2093.8	2190.8	2324.9	2106.8
42.5°	2065.8	2075.8	2145.8	2192.8	2249.9	2268.9	2294.9	2300.9	2450.9	2604.0	2344.9
45°	2173.8	2156.8	2245.9	2356.9	2406.9	2474.0	2514.0	2548.0	2729.0	2939.1	2583.0
47.5°	2310.9	2276.9	2354.9	2516.0	2632.0	2687.0	2759.1	2804.1	2981.1	3198.2	2808.1
50°	2462.9	2427.9	2465.9	2688.0	2823.1	2923.1	3015.2	3072.2	3286.3	3488.3	2972.1
52.5°	2635.0	2603.0	2609.0	2867.1	3066.2	3139.2	3260.3	3345.3	3558.4	3663.4	3030.2
55°	2818.1	2810.1	2791.1	3042.2	3279.3	3443.3	3516.4	3618.4	3837.5	3758.4	3093.2
57.5°	3002.2	2977.1	3004.2	3274.3	3621.4	3719.4	3820.5	3881.5	3992.5	3841.5	3069.2
60°	3175.2	3177.2	3215.2	3526.4	3912.5	4051.6	4142.6	4105.6	4151.6	3877.5	3014.2
62.5°	3321.3	3317.3	3413.3	3809.5	4297.7	4391.7	4459.7	4294.7	4225.6	3912.5	2918.1
65°	3452.3	3497.3	3648.4	4146.6	4659.8	4767.8	4726.8	4473.7	4297.7	3809.5	2648.0
67.5°	3551.4	3618.4	3880.5	4463.7	4991.9	5067.9	5010.9	4609.8	4212.6	3405.3	2156.8
70°	3609.4	3677.4	4046.6	4727.8	5257.0	5312.0	5178.0	4504.7	3716.4	2465.9	1345.5
71°	3591.4	3674.4	4078.6	4755.8	5320.0	5361.1	5153.0	4310.7	3342.3	2064.8	981.4
72.5°	3428.3	3506.3	3945.5	4735.8	5244.0	5219.0	4957.9	3844.5	2631.0	1316.5	507.2
75°	2519.0	2603.0	3386.3	4096.6	4680.8	4508.7	4012.5	2698.0	1372.5	403.2	148.1
77.5°	1254.5	1268.5	2101.8	2974.1	3433.3	3262.3	2689.0	1504.6	513.2	119.0	74.0
80°	578.2	582.2	788.3	1540.6	2075.8	1953.8	1506.6	742.3	232.1	63.0	58.0
82.5°	394.2	400.2	475.2	638.2	901.3	760.3	610.2	475.2	133.1	38.0	57.0
85°	72.0	66.0	266.1	338.1	348.1	236.1	211.1	411.2	50.0	22.0	50.0
87.5°	0.0	1.0	37.0	138.1	124.0	55.0	72.0	100.0	5.0	7.0	9.0
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°	1327.5	1327.5	1327.5	1327.5	1327.5	1327.5	1327.5	1327.5	1327.5	1327.5	1327.5
2.5°	1325.5	1314.5	1277.5	1236.5	1199.5	1170.4	1133.4	1116.4	1089.4	1074.4	1073.4
5°	1306.5	1276.5	1212.5	1143.4	1066.4	1002.4	931.4	891.3	845.3	831.3	828.3
7.5°	1274.5	1231.5	1137.4	1040.4	922.4	809.3	722.3	629.2	572.2	548.2	539.2
10°	1254.5	1202.5	1074.4	929.4	764.3	605.2	483.2	384.1	332.1	307.1	301.1
12.5°	1254.5	1198.5	1023.4	823.3	604.2	414.2	299.1	242.1	225.1	219.1	219.1
15°	1251.5	1190.5	974.4	714.3	447.2	278.1	223.1	211.1	209.1	208.1	207.1
17.5°	1266.5	1176.5	924.4	597.2	316.1	219.1	205.1	203.1	201.1	201.1	199.1
20°	1277.5	1168.4	864.3	473.2	236.1	203.1	197.1	194.1	193.1	192.1	194.1
22.5°	1268.5	1156.4	790.3	354.1	206.1	193.1	189.1	186.1	184.1	184.1	185.1
25°	1285.5	1145.4	716.3	267.1	193.1	184.1	180.1	178.1	177.1	176.1	174.1
27.5°	1308.5	1150.4	628.2	215.1	182.1	175.1	171.1	169.1	168.1	166.1	168.1
30°	1336.5	1149.4	531.2	188.1	172.1	165.1	161.1	160.1	158.1	157.1	158.1
32.5°	1384.5	1175.5	431.2	174.1	161.1	155.1	151.1	150.1	149.1	148.1	147.1
35°	1487.6	1207.5	337.1	163.1	151.1	144.1	141.1	139.1	138.1	137.1	136.1
37.5°	1614.6	1278.5	257.1	153.1	141.1	134.1	131.1	130.0	126.0	125.0	124.0
40°	1773.7	1354.5	198.1	142.1	132.1	125.0	122.0	119.0	114.0	112.0	110.0
42.5°	1971.8	1428.5	163.1	132.1	122.0	117.0	112.0	107.0	103.0	99.0	97.0
45°	2169.8	1514.6	143.1	123.0	114.0	108.0	104.0	97.0	90.0	84.0	83.0
47.5°	2334.9	1545.6	131.1	113.0	106.0	101.0	95.0	86.0	76.0	70.0	69.0
50°	2457.9	1527.6	119.0	103.0	97.0	92.0	84.0	73.0	63.0	57.0	55.0
52.5°	2482.0	1448.6	108.0	95.0	88.0	82.0	73.0	61.0	50.0	44.0	43.0
55°	2464.9	1317.5	99.0	88.0	80.0	71.0	61.0	49.0	39.0	33.0	32.0
57.5°	2429.9	1162.4	89.0	79.0	70.0	61.0	50.0	40.0	29.0	23.0	23.0
60°	2310.9	951.4	79.0	69.0	60.0	52.0	41.0	29.0	20.0	15.0	14.0
62.5°	2144.8	731.3	69.0	59.0	52.0	43.0	32.0	21.0	12.0	8.0	8.0
65°	1841.7	512.2	58.0	49.0	43.0	35.0	24.0	13.0	7.0	3.0	3.0
67.5°	1399.5	317.1	48.0	41.0	37.0	28.0	17.0	8.0	3.0	1.0	0.0
70°	803.3	165.1	38.0	33.0	29.0	21.0	12.0	4.0	2.0	0.0	0.0
71°	561.2	122.0	34.0	29.0	26.0	19.0	10.0	3.0	1.0	0.0	0.0
72.5°	281.1	81.0	29.0	24.0	21.0	15.0	8.0	3.0	1.0	0.0	0.0
75°	100.0	52.0	20.0	16.0	15.0	11.0	5.0	2.0	1.0	0.0	0.0
77.5°	69.0	42.0	14.0	10.0	10.0	7.0	3.0	1.0	1.0	0.0	0.0
80°	63.0	23.0	9.0	6.0	5.0	4.0	2.0	1.0	0.0	0.0	0.0
82.5°	63.0	17.0	5.0	4.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0
85°	44.0	9.0	3.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.0	3.0	2.0	1.0	1.0	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)