

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: P484703

Luminaire Tested: **IFLD-S-SA2A-730-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484703
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-730-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

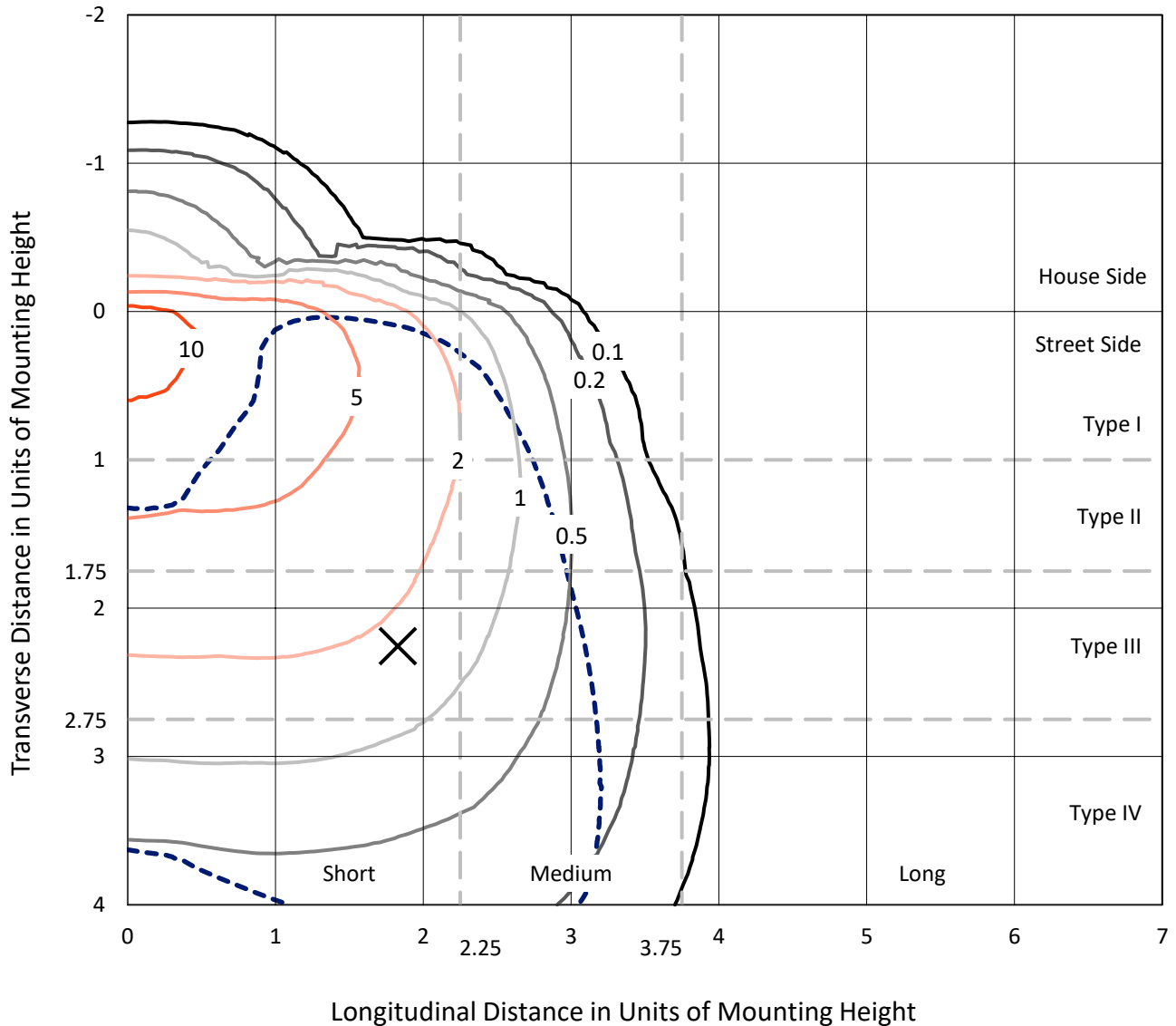
Lumens per Lamp: N/A
Luminaire Lumens: 6945 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

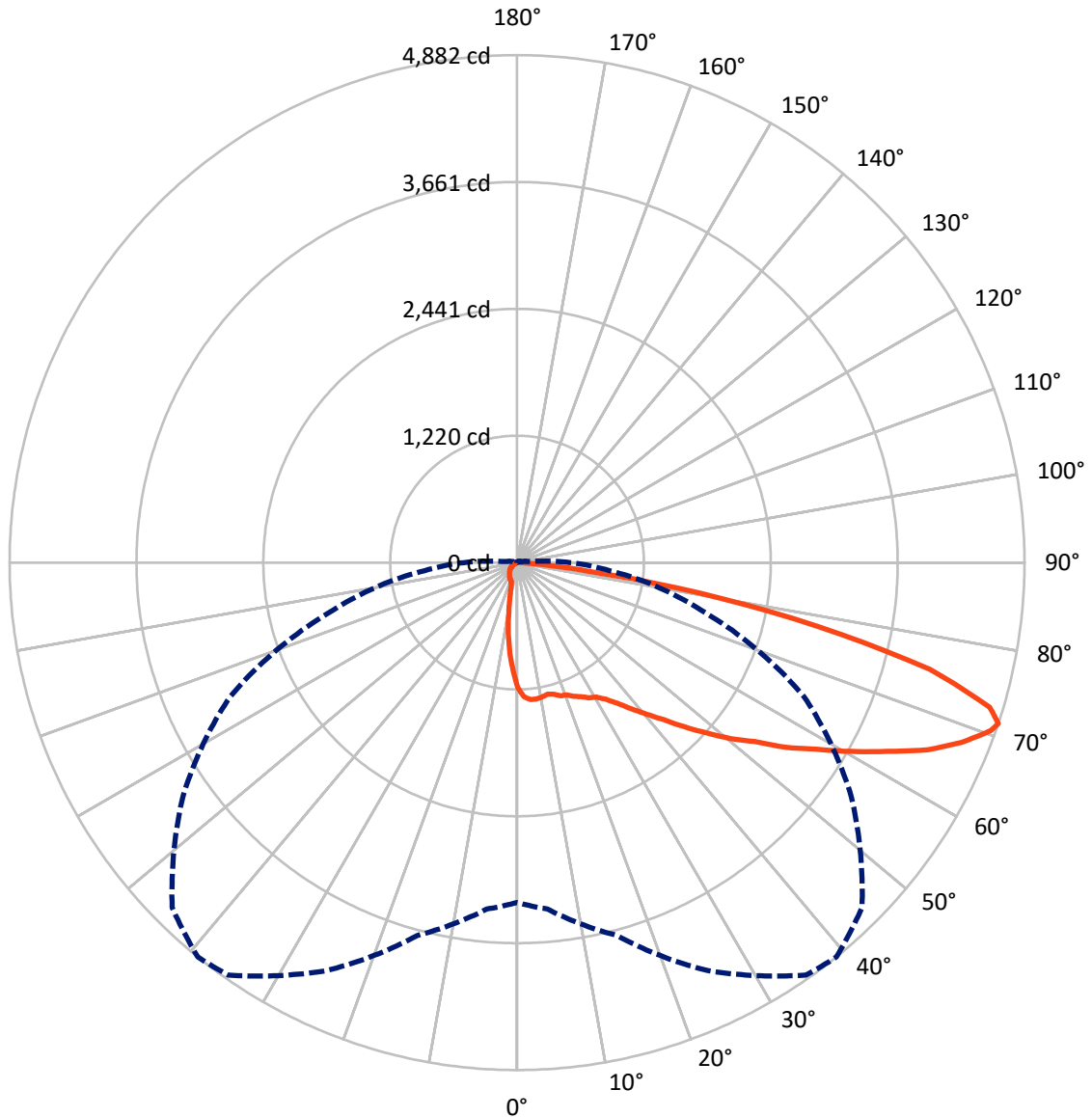
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.1 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
House Side	Lumens	522.9	0.0	522.9
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	6422.2	0.0	6422.2
	% Fixture	92.5	0.0	92.5
Total	Lumens	6945.0	0.0	6945.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	1.5
10°-20°	248.8	3.6
20°-30°	399.3	5.8
30°-40°	611.3	8.8
40°-50°	981.2	14.1
50°-60°	1441.3	20.8
60°-70°	1815.2	26.1
70°-80°	1211.4	17.4
80°-90°	135.4	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°	6945.0	100.0
0°-180°	6945.0	100.0

Coefficient of Utilization



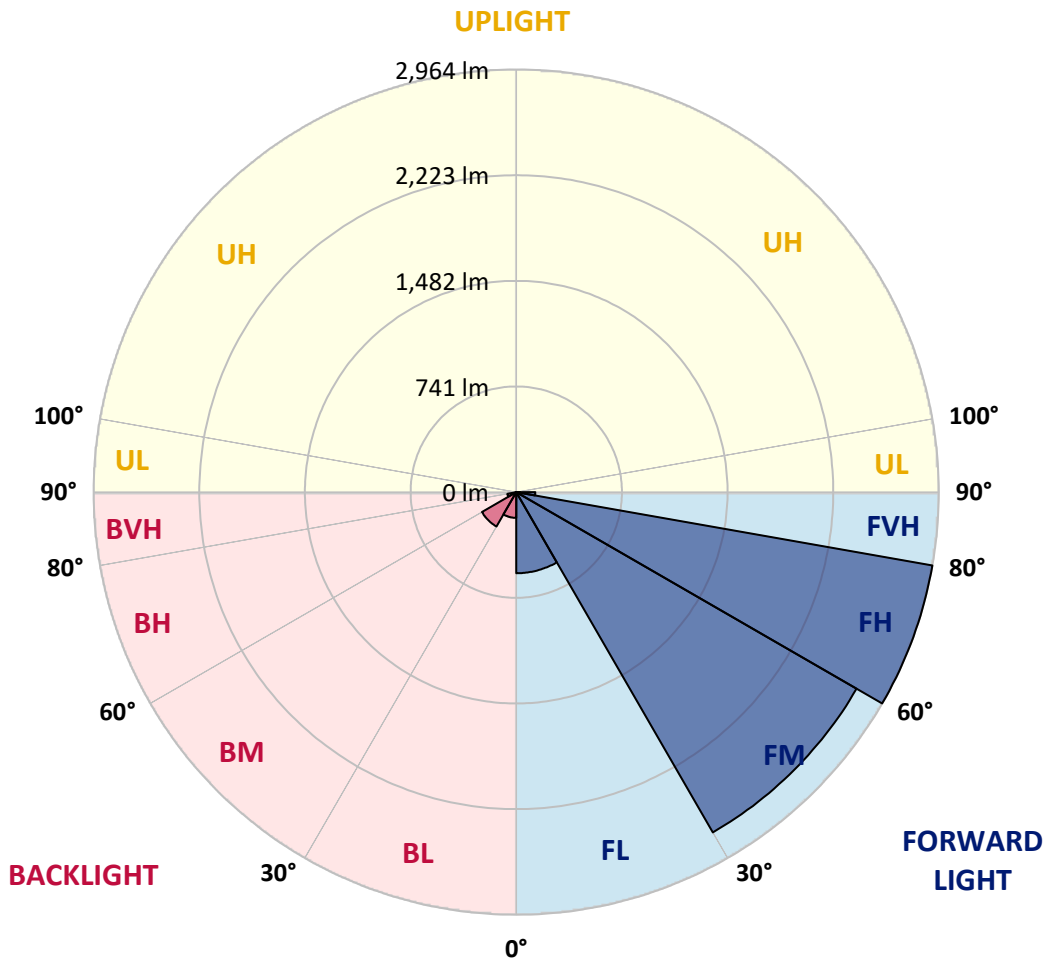
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	568.7	8.2			
FM (30°-60°)	2755.9	39.7			
FH (60°-80°)	2963.8	42.7			G2/5000
FVH (80°-90°)	133.9	1.9			G2/225
BL (0°-30°)	180.5	2.6	B1/500		
BM (30°-60°)	277.9	4.0	B1/1000		
BH (60°-80°)	62.9	0.9	B0/110		G0/110
BVH (80°-90°)	1.5	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°	1208.8	1208.8	1208.8	1208.8	1208.8	1208.8	1208.8	1208.8	1208.8	1208.8	1208.8
2.5°	1302.7	1315.4	1302.7	1297.2	1291.7	1292.6	1278.1	1280.8	1263.5	1240.7	1222.5
5°	1343.7	1361.0	1347.3	1340.9	1340.0	1322.7	1315.4	1298.1	1277.2	1241.6	1219.8
7.5°	1340.0	1336.4	1342.7	1337.3	1325.4	1325.4	1317.2	1292.6	1271.7	1231.6	1194.3
10°	1312.7	1323.6	1318.1	1311.8	1314.5	1315.4	1299.9	1282.6	1276.2	1236.2	1175.1
12.5°	1309.9	1291.7	1311.8	1312.7	1300.8	1299.9	1298.1	1293.5	1273.5	1237.1	1179.7
15°	1300.8	1293.5	1313.6	1314.5	1317.2	1314.5	1317.2	1313.6	1293.5	1272.6	1199.7
17.5°	1308.1	1299.9	1328.2	1341.8	1335.5	1348.2	1343.7	1327.3	1309.9	1285.4	1218.9
20°	1309.9	1321.8	1352.8	1358.2	1378.3	1357.3	1356.4	1339.1	1328.2	1301.7	1230.7
22.5°	1343.7	1349.1	1387.4	1399.2	1400.1	1397.4	1374.6	1354.6	1350.0	1317.2	1233.4
25°	1394.7	1413.8	1431.1	1438.4	1441.1	1428.4	1404.7	1379.2	1368.2	1347.3	1261.7
27.5°	1484.8	1473.0	1488.5	1499.4	1468.5	1473.0	1442.9	1421.1	1405.6	1387.4	1294.5
30°	1565.0	1554.1	1555.0	1553.2	1526.8	1502.2	1494.0	1455.7	1436.6	1443.9	1345.5
32.5°	1637.0	1613.3	1633.3	1624.2	1575.0	1567.7	1561.4	1513.1	1516.7	1550.4	1422.0
35°	1703.5	1695.3	1711.7	1695.3	1662.5	1660.7	1654.3	1612.4	1632.4	1680.7	1553.2
37.5°	1764.5	1767.2	1787.3	1779.1	1781.8	1783.6	1780.0	1735.4	1792.7	1901.2	1706.2
40°	1821.0	1817.3	1866.5	1892.0	1897.5	1917.5	1917.5	1906.6	1995.0	2117.0	1918.5
42.5°	1881.1	1890.2	1954.0	1996.8	2048.7	2066.0	2089.7	2095.2	2231.8	2371.2	2135.3
45°	1979.5	1964.0	2045.1	2146.2	2191.7	2252.8	2289.2	2320.2	2485.1	2676.4	2352.1
47.5°	2104.3	2073.3	2144.4	2291.0	2396.7	2446.8	2512.4	2553.4	2714.6	2912.3	2557.0
50°	2242.8	2210.9	2245.5	2447.7	2570.7	2661.8	2745.6	2797.5	2992.5	3176.5	2706.4
52.5°	2399.4	2370.3	2375.8	2610.8	2792.1	2858.6	2968.8	3046.2	3240.2	3335.9	2759.3
55°	2566.1	2558.9	2541.6	2770.2	2986.1	3135.5	3202.0	3294.9	3494.4	3422.4	2816.7
57.5°	2733.8	2711.0	2735.6	2981.5	3297.6	3386.9	3478.9	3534.5	3635.6	3498.0	2794.8
60°	2891.4	2893.2	2927.8	3211.1	3562.7	3689.3	3772.2	3738.5	3780.4	3530.8	2744.7
62.5°	3024.4	3020.7	3108.2	3468.9	3913.4	3999.1	4061.0	3910.7	3847.9	3562.7	2657.2
65°	3143.7	3184.7	3322.2	3775.9	4243.2	4341.6	4304.2	4073.8	3913.4	3468.9	2411.3
67.5°	3233.9	3294.9	3533.6	4064.7	4545.6	4614.9	4562.9	4197.7	3836.0	3100.9	1964.0
70°	3286.7	3348.7	3684.8	4305.2	4787.0	4837.1	4715.1	4102.0	3384.2	2245.5	1225.2
71°	3270.3	3345.9	3713.9	4330.7	4844.4	4881.8	4692.3	3925.3	3043.5	1880.2	893.6
72.5°	3121.8	3192.9	3592.8	4312.4	4775.2	4752.4	4514.7	3500.8	2395.8	1198.8	461.9
75°	2293.8	2370.3	3083.6	3730.3	4262.3	4105.7	3653.8	2456.8	1249.8	367.1	134.8
77.5°	1142.3	1155.1	1913.9	2708.3	3126.4	2970.6	2448.6	1370.1	467.3	108.4	67.4
80°	526.5	530.2	717.8	1402.9	1890.2	1779.1	1371.9	675.9	211.3	57.4	52.8
82.5°	358.9	364.4	432.7	581.2	820.8	692.3	555.7	432.7	121.2	34.6	51.9
85°	65.6	60.1	242.3	307.9	317.0	215.0	192.2	374.4	45.5	20.0	45.5
87.5°	0.0	0.9	33.7	125.7	113.0	50.1	65.6	91.1	4.6	6.4	8.2
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°	1208.8	1208.8	1208.8	1208.8	1208.8	1208.8	1208.8	1208.8	1208.8	1208.8	1208.8
2.5°	1207.0	1197.0	1163.3	1125.9	1092.2	1065.8	1032.1	1016.6	992.0	978.4	977.4
5°	1189.7	1162.4	1104.1	1041.2	971.1	912.8	848.1	811.7	769.8	757.0	754.3
7.5°	1160.6	1121.4	1035.8	947.4	839.9	737.0	657.7	573.0	521.1	499.2	491.0
10°	1142.3	1095.0	978.4	846.3	696.0	551.1	440.0	349.8	302.4	279.7	274.2
12.5°	1142.3	1091.3	931.9	749.7	550.2	377.1	272.4	220.4	205.0	199.5	199.5
15°	1139.6	1084.0	887.3	650.4	407.2	253.2	203.1	192.2	190.4	189.5	188.6
17.5°	1153.3	1071.3	841.7	543.8	287.9	199.5	186.7	184.9	183.1	183.1	181.3
20°	1163.3	1064.0	787.1	430.9	215.0	184.9	179.5	176.7	175.8	174.9	176.7
22.5°	1155.1	1053.1	719.7	322.5	187.7	175.8	172.2	169.4	167.6	167.6	168.5
25°	1170.6	1043.0	652.2	243.2	175.8	167.6	164.0	162.1	161.2	160.3	158.5
27.5°	1191.5	1047.6	572.1	195.9	165.8	159.4	155.8	154.0	153.0	151.2	153.0
30°	1217.0	1046.7	483.7	171.3	156.7	150.3	146.7	145.8	143.9	143.0	143.9
32.5°	1260.8	1070.4	392.6	158.5	146.7	141.2	137.6	136.6	135.7	134.8	133.9
35°	1354.6	1099.5	307.0	148.5	137.6	131.2	128.4	126.6	125.7	124.8	123.9
37.5°	1470.3	1164.2	234.1	139.4	128.4	122.1	119.3	118.4	114.8	113.9	113.0
40°	1615.1	1233.4	180.4	129.4	120.2	113.9	111.1	108.4	103.8	102.0	100.2
42.5°	1795.5	1300.8	148.5	120.2	111.1	106.6	102.0	97.5	93.8	90.2	88.4
45°	1975.9	1379.2	130.3	112.0	103.8	98.4	94.7	88.4	82.0	76.5	75.6
47.5°	2126.2	1407.4	119.3	102.9	96.6	92.0	86.5	78.3	69.2	63.8	62.9
50°	2238.2	1391.0	108.4	93.8	88.4	83.8	76.5	66.5	57.4	51.9	50.1
52.5°	2260.1	1319.1	98.4	86.5	80.2	74.7	66.5	55.6	45.5	40.1	39.2
55°	2244.6	1199.7	90.2	80.2	72.9	64.7	55.6	44.6	35.5	30.1	29.2
57.5°	2212.7	1058.5	81.1	72.0	63.8	55.6	45.5	36.4	26.4	21.0	21.0
60°	2104.3	866.3	72.0	62.9	54.7	47.4	37.3	26.4	18.2	13.7	12.8
62.5°	1953.1	665.9	62.9	53.7	47.4	39.2	29.2	19.1	10.9	7.3	7.3
65°	1677.1	466.4	52.8	44.6	39.2	31.9	21.9	11.8	6.4	2.7	2.7
67.5°	1274.4	288.8	43.7	37.3	33.7	25.5	15.5	7.3	2.7	0.9	0.0
70°	731.5	150.3	34.6	30.1	26.4	19.1	10.9	3.6	1.8	0.0	0.0
71°	511.0	111.1	31.0	26.4	23.7	17.3	9.1	2.7	0.9	0.0	0.0
72.5°	256.0	73.8	26.4	21.9	19.1	13.7	7.3	2.7	0.9	0.0	0.0
75°	91.1	47.4	18.2	14.6	13.7	10.0	4.6	1.8	0.9	0.0	0.0
77.5°	62.9	38.3	12.8	9.1	9.1	6.4	2.7	0.9	0.9	0.0	0.0
80°	57.4	21.0	8.2	5.5	4.6	3.6	1.8	0.9	0.0	0.0	0.0
82.5°	57.4	15.5	4.6	3.6	2.7	1.8	0.9	0.0	0.0	0.0	0.0
85°	40.1	8.2	2.7	2.7	1.8	0.9	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	2.7	1.8	0.9	0.9	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)