

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: P483536

Luminaire Tested: **IFLD-S-SA2D-730-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483536
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-730-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

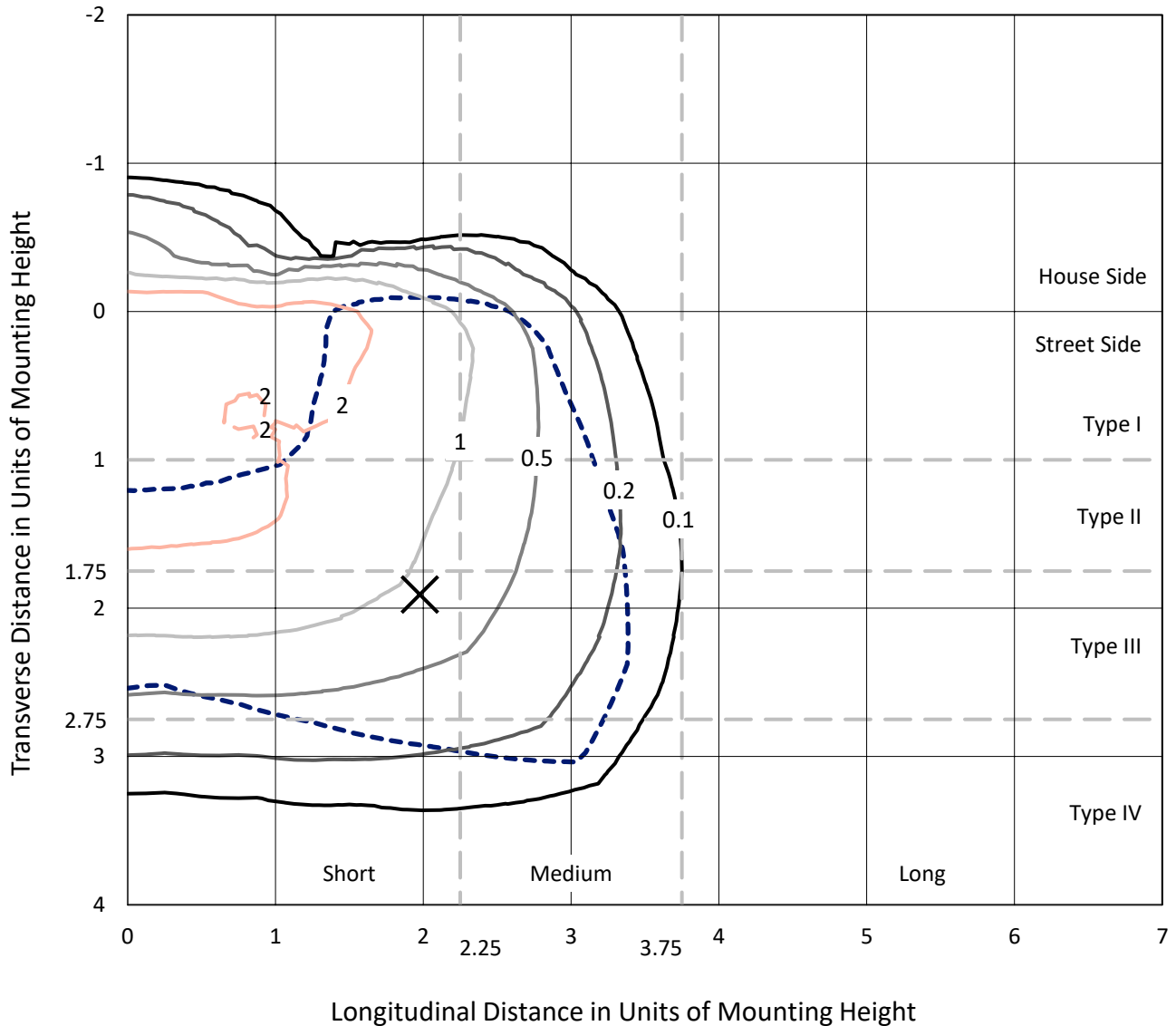
Lumens per Lamp: N/A
Luminaire Lumens: 10507.8 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9
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

REPORT NUMBER: P483536
 CATALOG NUMBER: IFLD-S-SA2D-730-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

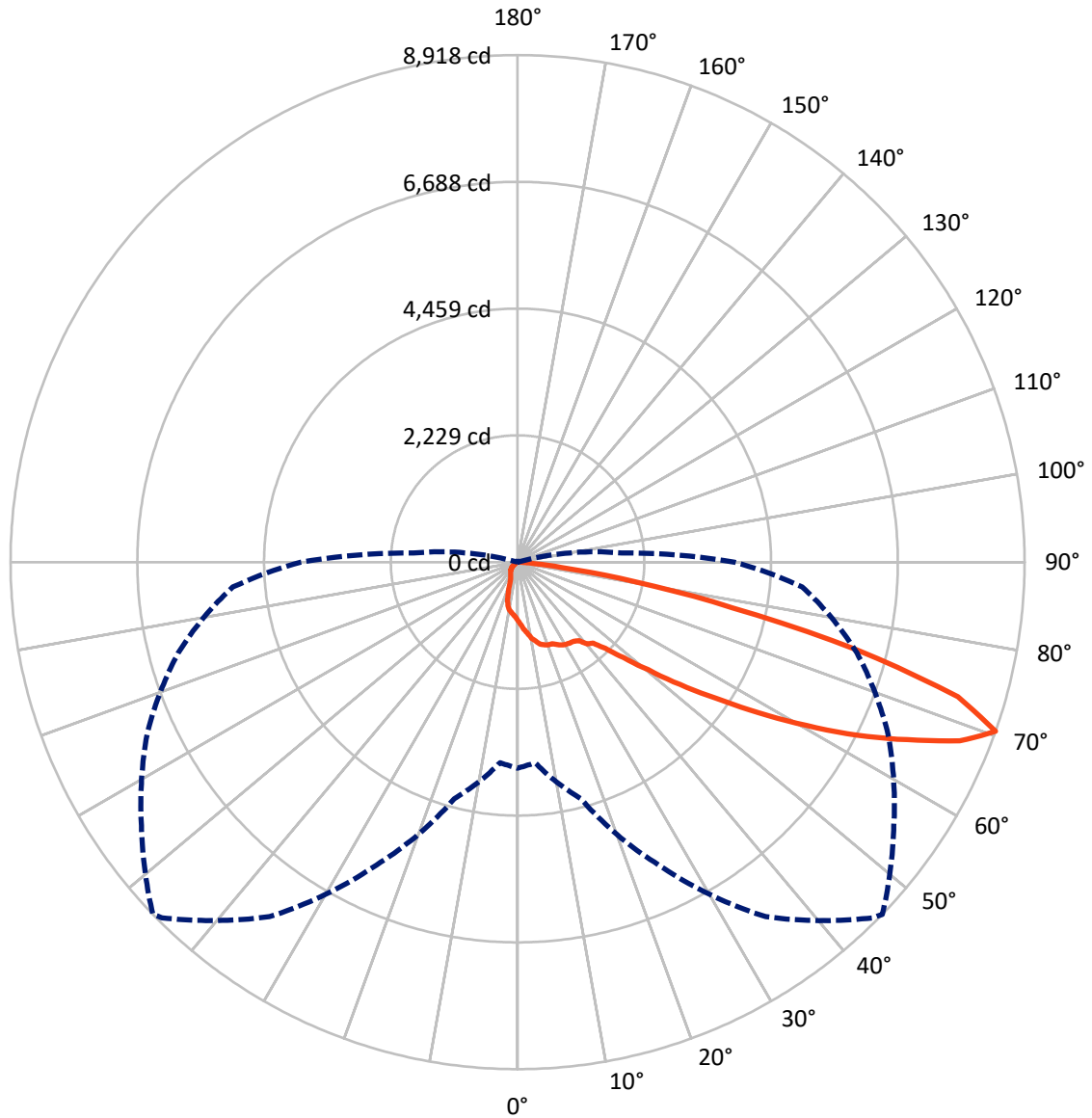
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P483536
CATALOG NUMBER: IFLD-S-SA2D-730-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P483536
 CATALOG NUMBER: IFLD-S-SA2D-730-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1045.6	0.0	1045.6
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	9462.2	0.0	9462.2
	% Fixture	90.0	0.0	90.0
Total	Lumens	10507.8	0.0	10507.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.9	1.0
10°-20°	310.6	3.0
20°-30°	497.5	4.7
30°-40°	710.2	6.8
40°-50°	1226.3	11.7
50°-60°	2347.8	22.3
60°-70°	3476.7	33.1
70°-80°	1722.0	16.4
80°-90°	113.8	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°	10507.8	100.0
0°-180°	10507.8	100.0

Coefficient of Utilization

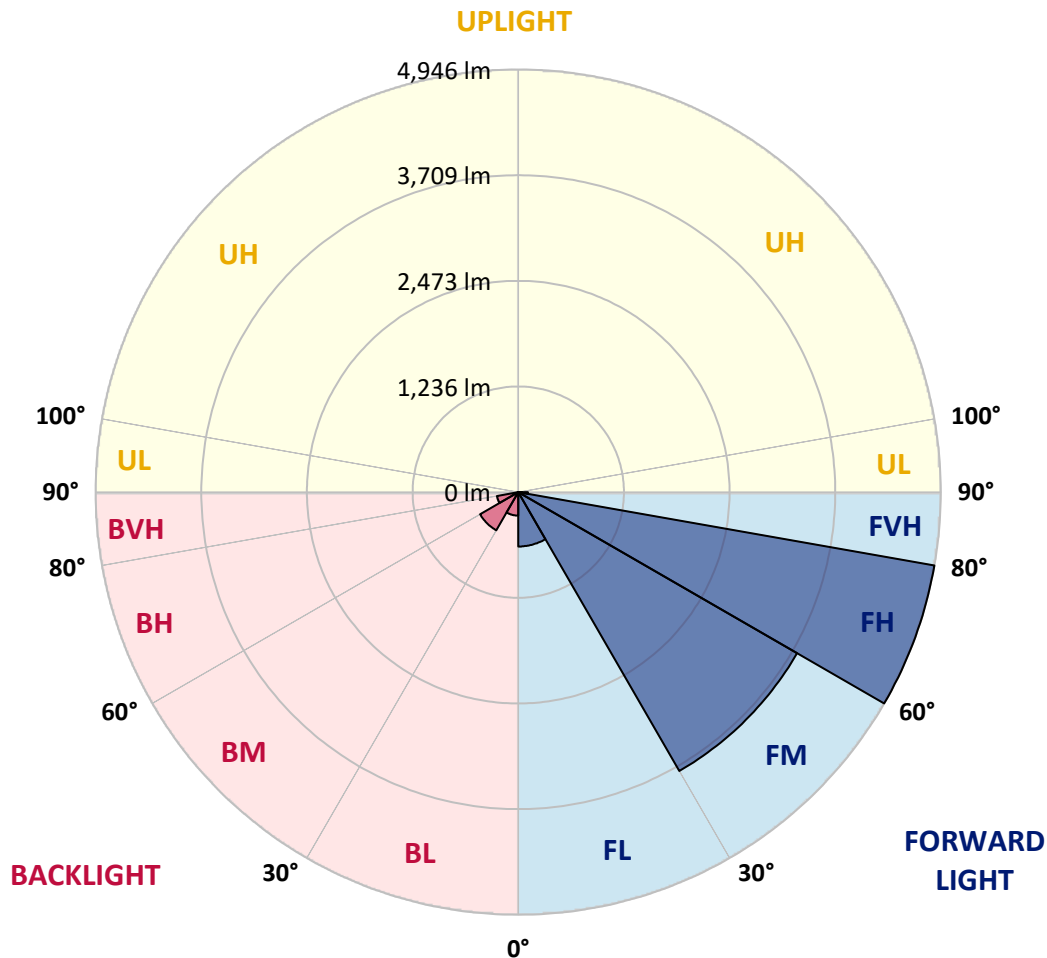


REPORT NUMBER: P483536
 CATALOG NUMBER: IFLD-S-SA2D-730-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	636.3	6.1			
FM (30°-60°)	3768.1	35.9			
FH (60°-80°)	4945.5	47.1			G2/5000
FVH (80°-90°)	112.3	1.1			G2/225
BL (0°-30°)	274.7	2.6	B1/500		
BM (30°-60°)	516.2	4.9	B1/1000		
BH (60°-80°)	253.2	2.4	B1/500		G1/500
BVH (80°-90°)	1.4	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





REPORT NUMBER: P483536

CATALOG NUMBER: IFLD-S-SA2D-730-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5
2.5°	1151.0	1143.5	1131.4	1126.8	1114.7	1108.7	1099.6	1095.1	1078.4	1061.8	1051.2
5°	1291.7	1273.5	1279.6	1261.4	1222.1	1190.4	1188.8	1154.1	1116.2	1086.0	1045.1
7.5°	1433.9	1418.7	1396.1	1370.3	1326.5	1279.6	1266.0	1232.7	1179.8	1126.8	1072.4
10°	1541.3	1530.7	1511.0	1474.7	1414.2	1361.3	1362.8	1306.8	1250.9	1190.4	1116.2
12.5°	1607.8	1612.3	1583.6	1547.3	1494.4	1427.8	1426.3	1388.5	1325.0	1261.4	1173.7
15°	1674.4	1691.0	1647.1	1604.8	1536.7	1488.3	1497.4	1452.0	1390.0	1317.4	1220.6
17.5°	1684.9	1689.5	1680.4	1618.4	1568.5	1527.6	1529.2	1498.9	1452.0	1373.4	1290.2
20°	1666.8	1663.8	1653.2	1607.8	1574.5	1550.3	1551.8	1544.3	1518.6	1455.0	1341.6
22.5°	1613.9	1613.9	1600.2	1570.0	1554.9	1577.6	1559.4	1588.1	1560.9	1523.1	1429.3
25°	1571.5	1588.1	1580.6	1560.9	1567.0	1597.2	1606.3	1633.5	1629.0	1582.1	1489.8
27.5°	1616.9	1597.2	1601.8	1579.1	1601.8	1647.1	1651.7	1671.3	1669.8	1632.0	1544.3
30°	1647.1	1665.3	1630.5	1580.6	1604.8	1681.9	1678.9	1704.6	1716.7	1671.3	1595.7
32.5°	1743.9	1728.8	1700.1	1633.5	1636.5	1680.4	1694.0	1727.3	1734.9	1707.6	1645.6
35°	1942.1	1919.4	1793.8	1694.0	1678.9	1700.1	1709.1	1774.2	1787.8	1757.5	1698.6
37.5°	2247.6	2196.2	2044.9	1824.1	1756.0	1751.5	1751.5	1837.7	1889.1	1819.6	1777.2
40°	2684.7	2612.1	2448.8	2064.6	1857.4	1875.5	1893.7	1940.6	1934.5	1889.1	1880.1
42.5°	3241.3	3185.4	3008.4	2468.4	2051.0	1960.2	1945.1	2008.6	2103.9	2085.8	2079.7
45°	3705.7	3708.7	3595.3	3022.0	2385.2	2155.3	2165.9	2214.3	2374.7	2361.0	2359.5
47.5°	4044.5	4002.1	3985.5	3555.9	2872.3	2525.9	2510.8	2544.1	2752.8	2839.0	2878.3
50°	4353.0	4324.3	4285.0	4074.7	3457.6	2990.2	2975.1	2978.1	3297.3	3418.3	3515.1
52.5°	4735.7	4772.0	4641.9	4513.3	4215.4	3593.7	3577.1	3518.1	3914.4	4080.8	4195.7
55°	5207.6	5139.5	4992.8	5059.4	4939.9	4245.6	4215.4	4145.8	4617.7	4687.3	4808.3
57.5°	5312.0	5260.5	5411.8	5647.7	5762.7	5011.0	4998.9	4873.3	5209.1	5145.6	5487.4
60°	5572.1	5585.7	5796.0	6264.8	6464.5	5894.3	5835.3	5614.5	5782.4	5794.5	6159.0
62.5°	5839.8	5808.1	6278.5	6729.2	7036.2	6730.7	6711.0	6272.4	6463.0	6308.7	6791.2
65°	5643.2	5691.6	6364.7	7119.4	7777.4	7549.0	7532.3	6906.2	7010.5	6818.4	7048.3
67.5°	4944.4	4846.1	5788.4	6940.9	8158.5	8406.6	8388.4	7597.4	7319.1	6815.4	6514.4
70°	3624.0	3539.3	4307.6	5877.6	7612.5	8845.2	8917.8	8078.4	7193.5	6180.1	5026.1
72.5°	1775.7	1777.2	2414.0	3985.5	6022.8	8061.7	8098.0	7406.8	6180.1	4555.7	2846.6
75°	524.8	530.9	893.9	1954.2	3893.2	6122.7	6163.5	5622.0	4283.4	2353.5	971.0
77.5°	192.1	192.1	296.5	733.6	1942.1	3864.5	3861.5	3451.6	2168.9	797.1	226.9
80°	99.8	104.4	154.3	299.5	841.0	2013.2	2088.8	1689.5	824.3	335.8	66.6
82.5°	40.8	45.4	84.7	154.3	403.8	706.3	772.9	662.5	358.5	234.4	30.3
85°	12.1	13.6	40.8	86.2	158.8	177.0	196.6	222.3	225.4	181.5	13.6
87.5°	1.5	1.5	16.6	28.7	34.8	37.8	43.9	43.9	115.0	127.1	7.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P483536

CATALOG NUMBER: IFLD-S-SA2D-730-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5	1031.5
2.5°	1039.1	1031.5	1019.4	992.2	986.2	966.5	965.0	946.8	952.9	940.8	936.2
5°	1031.5	1014.9	981.6	960.4	939.3	925.7	916.6	909.0	907.5	901.5	898.4
7.5°	1045.1	1022.5	971.0	937.8	901.5	889.4	869.7	868.2	857.6	847.0	847.0
10°	1090.5	1049.7	993.7	937.8	890.9	851.5	806.2	772.9	760.8	733.6	736.6
12.5°	1126.8	1090.5	1008.8	951.4	880.3	791.0	691.2	614.1	577.8	543.0	556.6
15°	1178.3	1125.3	1037.6	954.4	839.4	685.2	521.8	435.6	402.3	394.8	393.3
17.5°	1234.2	1178.3	1073.9	946.8	756.3	529.4	384.2	334.3	340.3	349.4	347.9
20°	1296.2	1228.2	1101.1	921.1	624.7	384.2	314.6	313.1	322.2	335.8	338.8
22.5°	1361.3	1302.3	1134.4	844.0	465.9	308.6	302.5	302.5	308.6	325.2	322.2
25°	1433.9	1355.2	1151.0	724.5	334.3	284.4	287.4	293.4	296.5	310.1	311.6
27.5°	1489.8	1414.2	1155.6	580.8	272.3	263.2	270.7	278.3	282.8	293.4	298.0
30°	1541.3	1488.3	1131.4	432.6	249.6	245.0	248.1	258.6	267.7	276.8	276.8
32.5°	1606.3	1530.7	1075.4	307.0	236.0	228.4	226.9	231.4	242.0	252.6	252.6
35°	1672.8	1601.8	986.2	246.5	223.9	213.3	207.2	202.7	207.2	214.8	220.8
37.5°	1769.6	1709.1	874.2	226.9	214.8	199.7	187.6	177.0	169.4	167.9	172.4
40°	1907.3	1830.1	730.5	213.3	204.2	186.0	167.9	149.7	133.1	122.5	124.0
42.5°	2116.0	2008.6	574.8	205.7	196.6	170.9	145.2	119.5	98.3	87.7	87.7
45°	2414.0	2244.6	422.0	198.1	187.6	152.8	119.5	89.2	68.1	62.0	63.5
47.5°	2863.2	2528.9	302.5	186.0	175.5	133.1	93.8	63.5	49.9	46.9	48.4
50°	3450.1	2866.2	236.0	172.4	160.3	111.9	69.6	46.9	39.3	37.8	39.3
52.5°	4065.6	3206.5	207.2	160.3	137.6	89.2	51.4	37.8	33.3	31.8	33.3
55°	4592.0	3425.9	180.0	142.2	110.4	66.6	40.8	33.3	28.7	24.2	24.2
57.5°	5124.4	3536.3	142.2	118.0	81.7	49.9	34.8	28.7	24.2	19.7	18.2
60°	5557.0	3614.9	101.3	87.7	57.5	39.3	30.3	25.7	19.7	15.1	13.6
62.5°	5841.3	3389.6	74.1	66.6	42.4	33.3	25.7	21.2	15.1	10.6	10.6
65°	5700.7	3078.0	57.5	46.9	31.8	25.7	21.2	15.1	10.6	6.1	4.5
67.5°	5115.3	2507.8	46.9	34.8	24.2	19.7	16.6	12.1	6.1	1.5	1.5
70°	3816.1	1837.7	37.8	25.7	19.7	15.1	12.1	7.6	3.0	1.5	0.0
72.5°	2087.3	1005.8	30.3	21.2	15.1	12.1	9.1	6.1	3.0	0.0	0.0
75°	689.7	267.7	22.7	15.1	9.1	7.6	6.1	4.5	1.5	0.0	0.0
77.5°	166.4	69.6	18.2	13.6	7.6	4.5	3.0	1.5	1.5	0.0	0.0
80°	51.4	28.7	13.6	9.1	6.1	4.5	1.5	0.0	0.0	0.0	0.0
82.5°	21.2	13.6	6.1	6.1	4.5	1.5	0.0	0.0	0.0	0.0	0.0
85°	10.6	7.6	4.5	3.0	3.0	1.5	0.0	0.0	0.0	0.0	0.0
87.5°	7.6	3.0	1.5	1.5	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)