

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: P483613

Luminaire Tested: **IFLD-S-SA2C-740-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483613  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-740-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

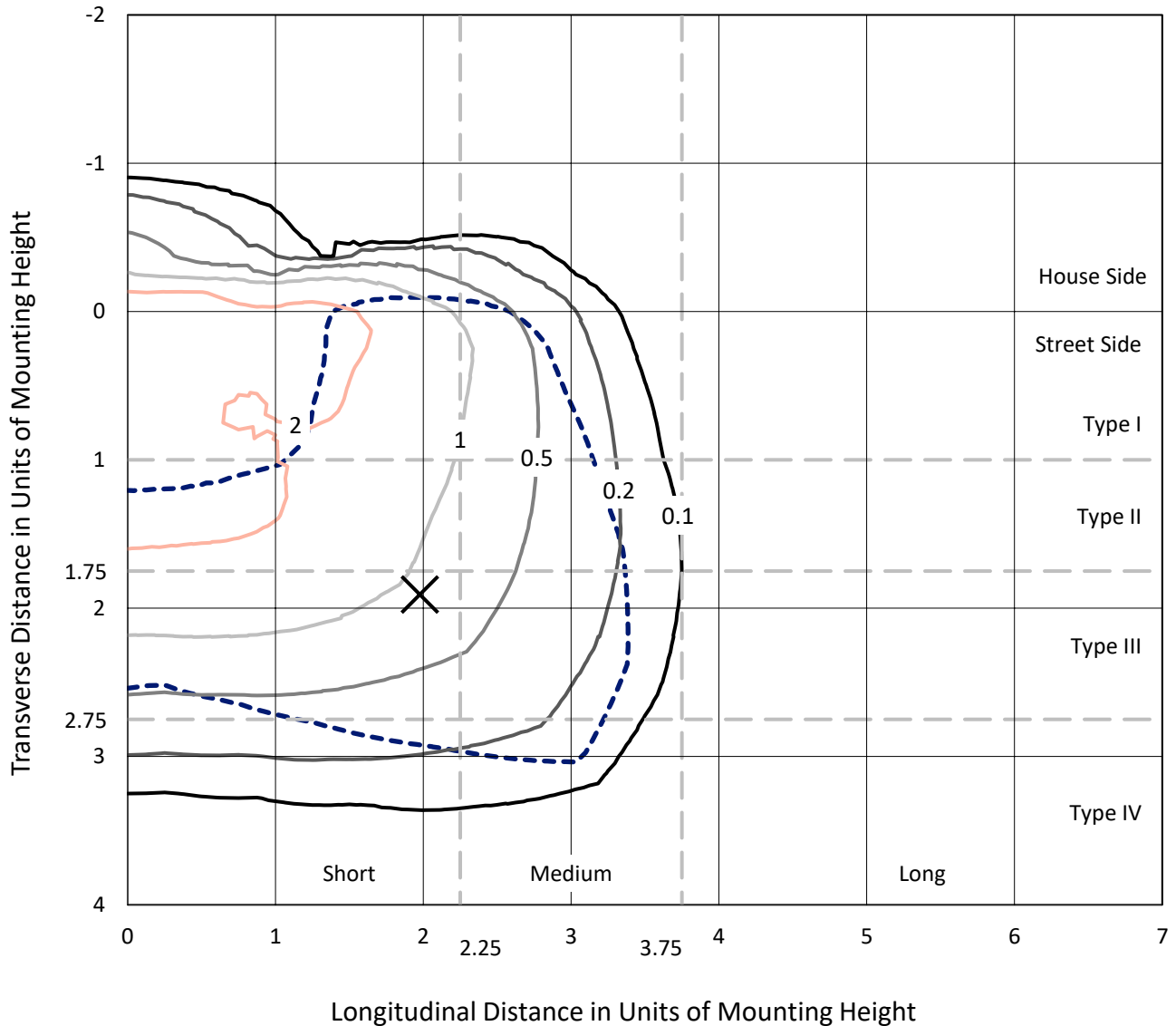
Lumens per Lamp: N/A  
Luminaire Lumens: 10487.2 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2  
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

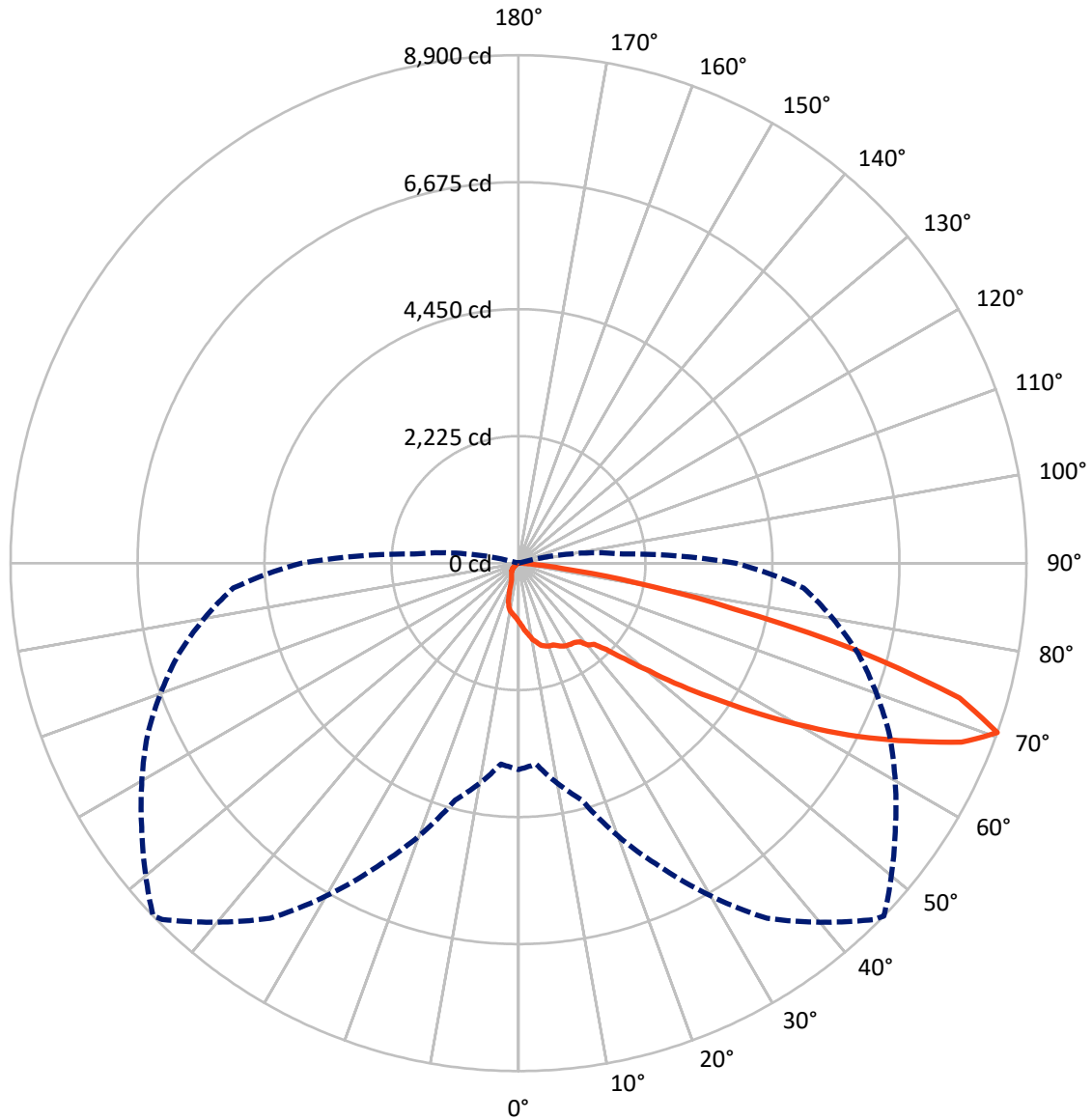
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1043.5	0.0	1043.5
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	9443.7	0.0	9443.7
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	10487.2	0.0	10487.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.7	1.0
10°-20°	310.0	3.0
20°-30°	496.6	4.7
30°-40°	708.8	6.8
40°-50°	1223.9	11.7
50°-60°	2343.2	22.3
60°-70°	3469.9	33.1
70°-80°	1718.6	16.4
80°-90°	113.6	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°	10487.2	100.0
0°-180°	10487.2	100.0



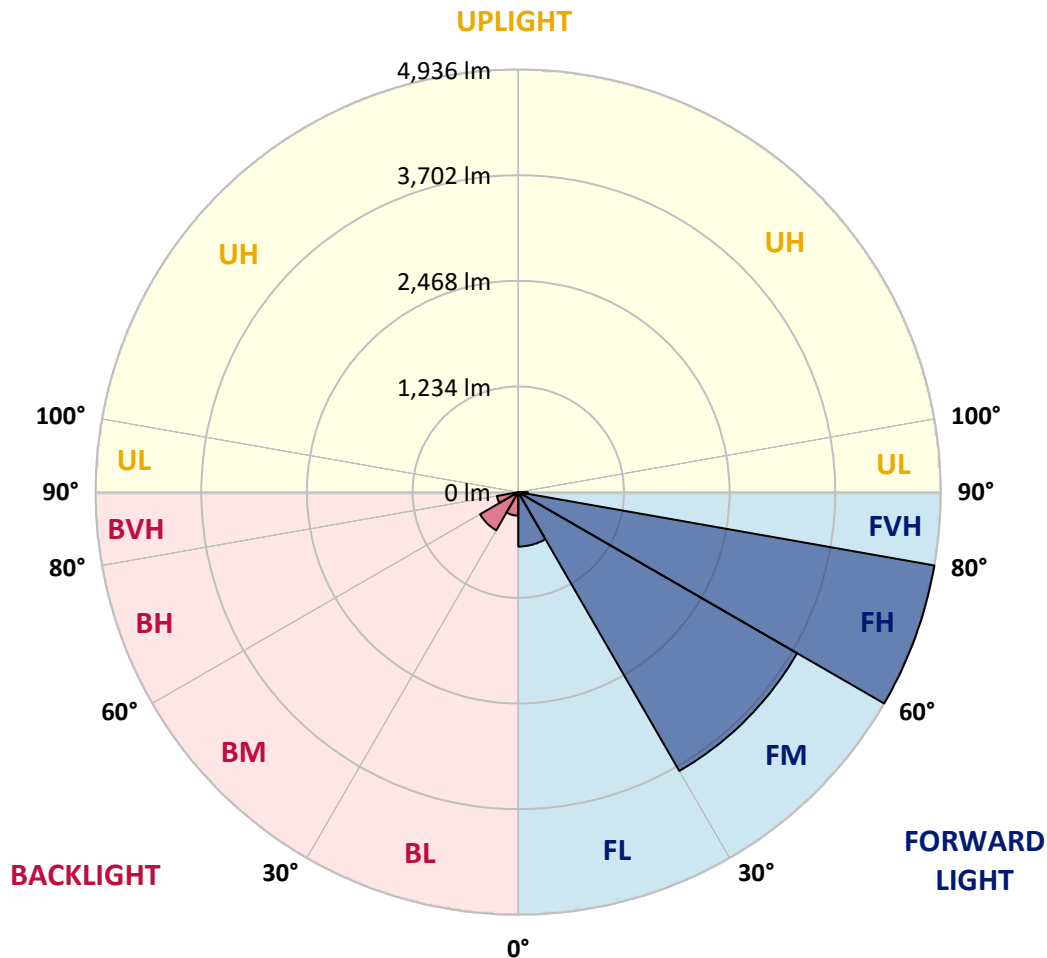
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	635.1	6.1			
FM (30°-60°)	3760.7	35.9			
FH (60°-80°)	4935.8	47.1			G2/5000
FVH (80°-90°)	112.1	1.1			G2/225
BL (0°-30°)	274.1	2.6	B1/500		
BM (30°-60°)	515.2	4.9	B1/1000		
BH (60°-80°)	252.7	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1029.5	1029.5	1029.5	1029.5	1029.5	1029.5	1029.5	1029.5	1029.5	1029.5	1029.5
2.5°	1148.8	1141.2	1129.1	1124.6	1112.5	1106.5	1097.4	1092.9	1076.3	1059.7	1049.1
5°	1289.2	1271.0	1277.1	1259.0	1219.7	1188.0	1186.5	1151.8	1114.0	1083.9	1043.1
7.5°	1431.1	1416.0	1393.3	1367.7	1323.9	1277.1	1263.5	1230.3	1177.4	1124.6	1070.3
10°	1538.2	1527.7	1508.0	1471.8	1411.4	1358.6	1360.1	1304.2	1248.4	1188.0	1114.0
12.5°	1604.6	1609.2	1580.5	1544.3	1491.4	1425.0	1423.5	1385.8	1322.4	1259.0	1171.4
15°	1671.1	1687.7	1643.9	1601.6	1533.7	1485.4	1494.5	1449.2	1387.3	1314.8	1218.2
17.5°	1681.6	1686.2	1677.1	1615.2	1565.4	1524.6	1526.2	1496.0	1449.2	1370.7	1287.6
20°	1663.5	1660.5	1649.9	1604.6	1571.4	1547.3	1548.8	1541.2	1515.6	1452.2	1339.0
22.5°	1610.7	1610.7	1597.1	1566.9	1551.8	1574.5	1556.3	1585.0	1557.9	1520.1	1426.5
25°	1568.4	1585.0	1577.5	1557.9	1563.9	1594.1	1603.1	1630.3	1625.8	1579.0	1486.9
27.5°	1613.7	1594.1	1598.6	1576.0	1598.6	1643.9	1648.4	1668.1	1666.5	1628.8	1541.2
30°	1643.9	1662.0	1627.3	1577.5	1601.6	1678.6	1675.6	1701.3	1713.3	1668.1	1592.6
32.5°	1740.5	1725.4	1696.7	1630.3	1633.3	1677.1	1690.7	1723.9	1731.5	1704.3	1642.4
35°	1938.3	1915.6	1790.3	1690.7	1675.6	1696.7	1705.8	1770.7	1784.3	1754.1	1695.2
37.5°	2243.2	2191.9	2040.9	1820.5	1752.6	1748.1	1748.1	1834.1	1885.4	1816.0	1773.7
40°	2679.4	2607.0	2444.0	2060.5	1853.7	1871.8	1890.0	1936.8	1930.7	1885.4	1876.4
42.5°	3235.0	3179.1	3002.5	2463.6	2046.9	1956.4	1941.3	2004.7	2099.8	2081.7	2075.6
45°	3698.4	3701.4	3588.2	3016.1	2380.6	2151.1	2161.7	2210.0	2370.0	2356.4	2354.9
47.5°	4036.5	3994.3	3977.7	3548.9	2866.6	2520.9	2505.9	2539.1	2747.4	2833.4	2872.7
50°	4344.5	4315.8	4276.6	4066.7	3450.8	2984.4	2969.3	2972.3	3290.8	3411.6	3508.2
52.5°	4726.4	4762.6	4632.8	4504.5	4207.1	3586.7	3570.1	3511.2	3906.7	4072.8	4187.5
55°	5197.4	5129.4	4983.0	5049.4	4930.2	4237.3	4207.1	4137.7	4608.7	4678.1	4798.9
57.5°	5301.5	5250.2	5401.2	5636.7	5751.4	5001.1	4989.1	4863.8	5198.9	5135.5	5476.6
60°	5561.2	5574.8	5784.6	6252.5	6451.8	5882.7	5823.8	5603.4	5771.0	5783.1	6146.9
62.5°	5828.4	5796.7	6266.1	6716.0	7022.4	6717.5	6697.9	6260.1	6450.3	6296.3	6777.9
65°	5632.1	5680.4	6352.2	7105.4	7762.1	7534.2	7517.6	6892.6	6996.8	6805.0	7034.5
67.5°	4934.7	4836.6	5777.0	6927.3	8142.5	8390.1	8372.0	7582.5	7304.7	6802.0	6501.6
70°	3616.9	3532.3	4299.2	5866.1	7597.6	8827.8	8900.3	8062.5	7179.4	6168.0	5016.2
72.5°	1772.2	1773.7	2409.2	3977.7	6011.0	8045.9	8082.1	7392.3	6168.0	4546.8	2841.0
75°	523.8	529.9	892.1	1950.3	3885.6	6110.7	6151.4	5611.0	4275.0	2348.9	969.1
77.5°	191.7	191.7	295.9	732.1	1938.3	3856.9	3853.9	3444.8	2164.7	795.5	226.4
80°	99.6	104.2	154.0	298.9	839.3	2009.2	2084.7	1686.2	822.7	335.1	66.4
82.5°	40.8	45.3	84.5	154.0	403.0	705.0	771.4	661.2	357.8	234.0	30.2
85°	12.1	13.6	40.8	86.0	158.5	176.6	196.2	221.9	224.9	181.1	13.6
87.5°	1.5	1.5	16.6	28.7	34.7	37.7	43.8	43.8	114.7	126.8	7.5
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°	1029.5	1029.5	1029.5	1029.5	1029.5	1029.5	1029.5	1029.5	1029.5	1029.5	1029.5
2.5°	1037.1	1029.5	1017.4	990.3	984.2	964.6	963.1	945.0	951.0	938.9	934.4
5°	1029.5	1012.9	979.7	958.6	937.4	923.8	914.8	907.2	905.7	899.7	896.7
7.5°	1043.1	1020.5	969.1	935.9	899.7	887.6	868.0	866.5	855.9	845.3	845.3
10°	1088.4	1047.6	991.8	935.9	889.1	849.9	804.6	771.4	759.3	732.1	735.2
12.5°	1124.6	1088.4	1006.9	949.5	878.6	789.5	689.9	612.9	576.6	541.9	555.5
15°	1175.9	1123.1	1035.6	952.5	837.8	683.8	520.8	434.7	401.5	394.0	392.5
17.5°	1231.8	1175.9	1071.8	945.0	754.8	528.3	383.4	333.6	339.6	348.7	347.2
20°	1293.7	1225.8	1099.0	919.3	623.4	383.4	314.0	312.5	321.5	335.1	338.1
22.5°	1358.6	1299.7	1132.2	842.3	464.9	307.9	301.9	301.9	307.9	324.6	321.5
25°	1431.1	1352.6	1148.8	723.1	333.6	283.8	286.8	292.9	295.9	309.5	311.0
27.5°	1486.9	1411.4	1153.3	579.7	271.7	262.7	270.2	277.8	282.3	292.9	297.4
30°	1538.2	1485.4	1129.1	431.7	249.1	244.5	247.6	258.1	267.2	276.2	276.2
32.5°	1603.1	1527.7	1073.3	306.4	235.5	227.9	226.4	231.0	241.5	252.1	252.1
35°	1669.6	1598.6	984.2	246.1	223.4	212.8	206.8	202.3	206.8	214.4	220.4
37.5°	1766.2	1705.8	872.5	226.4	214.4	199.3	187.2	176.6	169.1	167.6	172.1
40°	1903.5	1826.6	729.1	212.8	203.8	185.7	167.6	149.4	132.8	122.3	123.8
42.5°	2111.9	2004.7	573.6	205.3	196.2	170.6	144.9	119.3	98.1	87.6	87.6
45°	2409.2	2240.2	421.2	197.8	187.2	152.5	119.3	89.1	67.9	61.9	63.4
47.5°	2857.6	2524.0	301.9	185.7	175.1	132.8	93.6	63.4	49.8	46.8	48.3
50°	3443.3	2860.6	235.5	172.1	160.0	111.7	69.4	46.8	39.2	37.7	39.2
52.5°	4057.7	3200.2	206.8	160.0	137.4	89.1	51.3	37.7	33.2	31.7	33.2
55°	4583.0	3419.1	179.6	141.9	110.2	66.4	40.8	33.2	28.7	24.2	24.2
57.5°	5114.3	3529.3	141.9	117.7	81.5	49.8	34.7	28.7	24.2	19.6	18.1
60°	5546.1	3607.8	101.1	87.6	57.4	39.2	30.2	25.7	19.6	15.1	13.6
62.5°	5829.9	3382.9	74.0	66.4	42.3	33.2	25.7	21.1	15.1	10.6	10.6
65°	5689.5	3071.9	57.4	46.8	31.7	25.7	21.1	15.1	10.6	6.0	4.5
67.5°	5105.3	2502.8	46.8	34.7	24.2	19.6	16.6	12.1	6.0	1.5	1.5
70°	3808.6	1834.1	37.7	25.7	19.6	15.1	12.1	7.5	3.0	1.5	0.0
72.5°	2083.2	1003.8	30.2	21.1	15.1	12.1	9.1	6.0	3.0	0.0	0.0
75°	688.4	267.2	22.6	15.1	9.1	7.5	6.0	4.5	1.5	0.0	0.0
77.5°	166.1	69.4	18.1	13.6	7.5	4.5	3.0	1.5	1.5	0.0	0.0
80°	51.3	28.7	13.6	9.1	6.0	4.5	1.5	0.0	0.0	0.0	0.0
82.5°	21.1	13.6	6.0	6.0	4.5	1.5	0.0	0.0	0.0	0.0	0.0
85°	10.6	7.5	4.5	3.0	3.0	1.5	0.0	0.0	0.0	0.0	0.0
87.5°	7.5	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)