

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: P482483

Luminaire Tested: **IFLD-S-SA2D-750-U-T3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482483
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-750-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3 distribution lens with House Side Shield
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

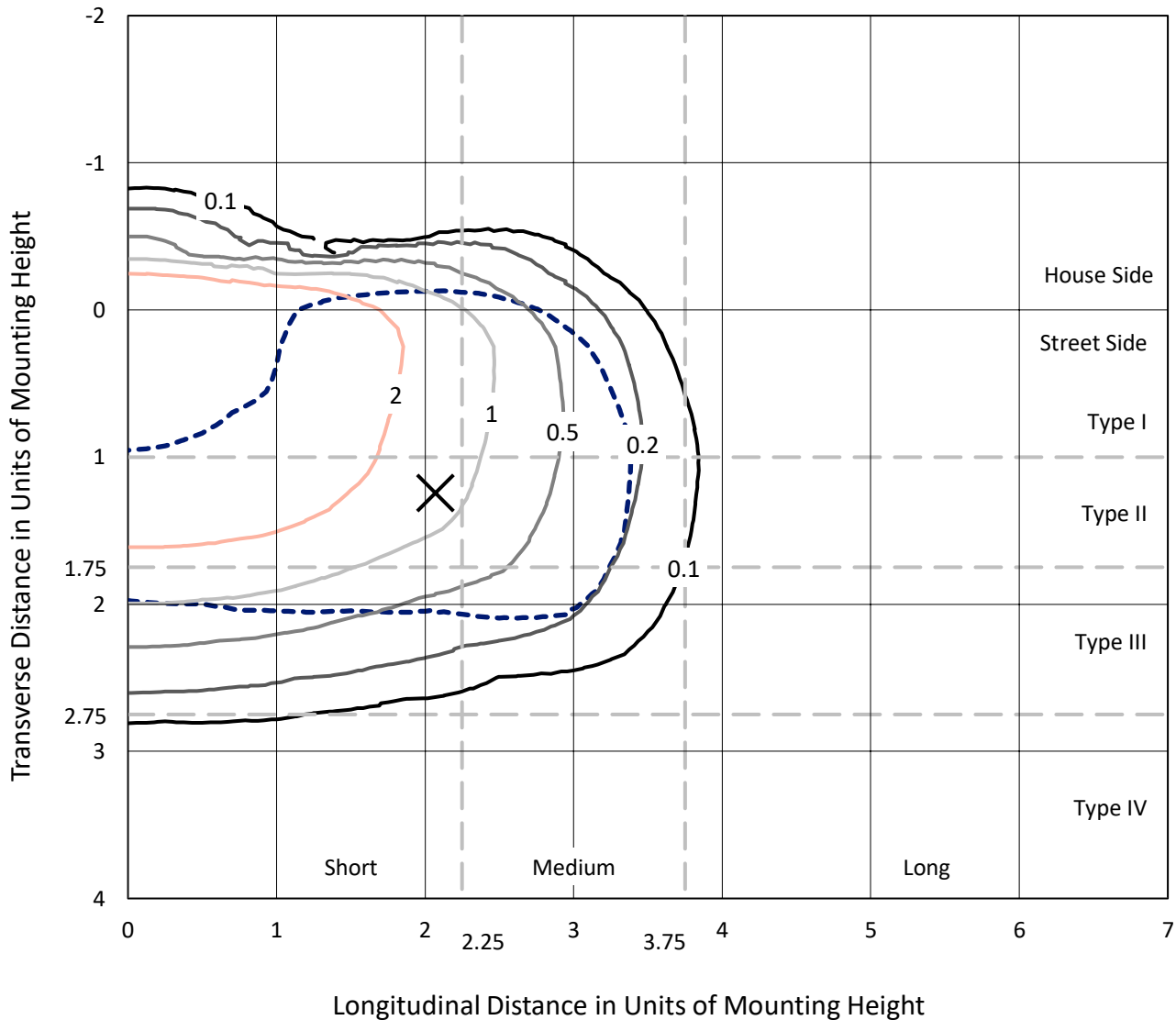
Lumens per Lamp: N/A
Luminaire Lumens: 11870.7 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

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Iso-Footcandle Lines of Horizontal Illumination

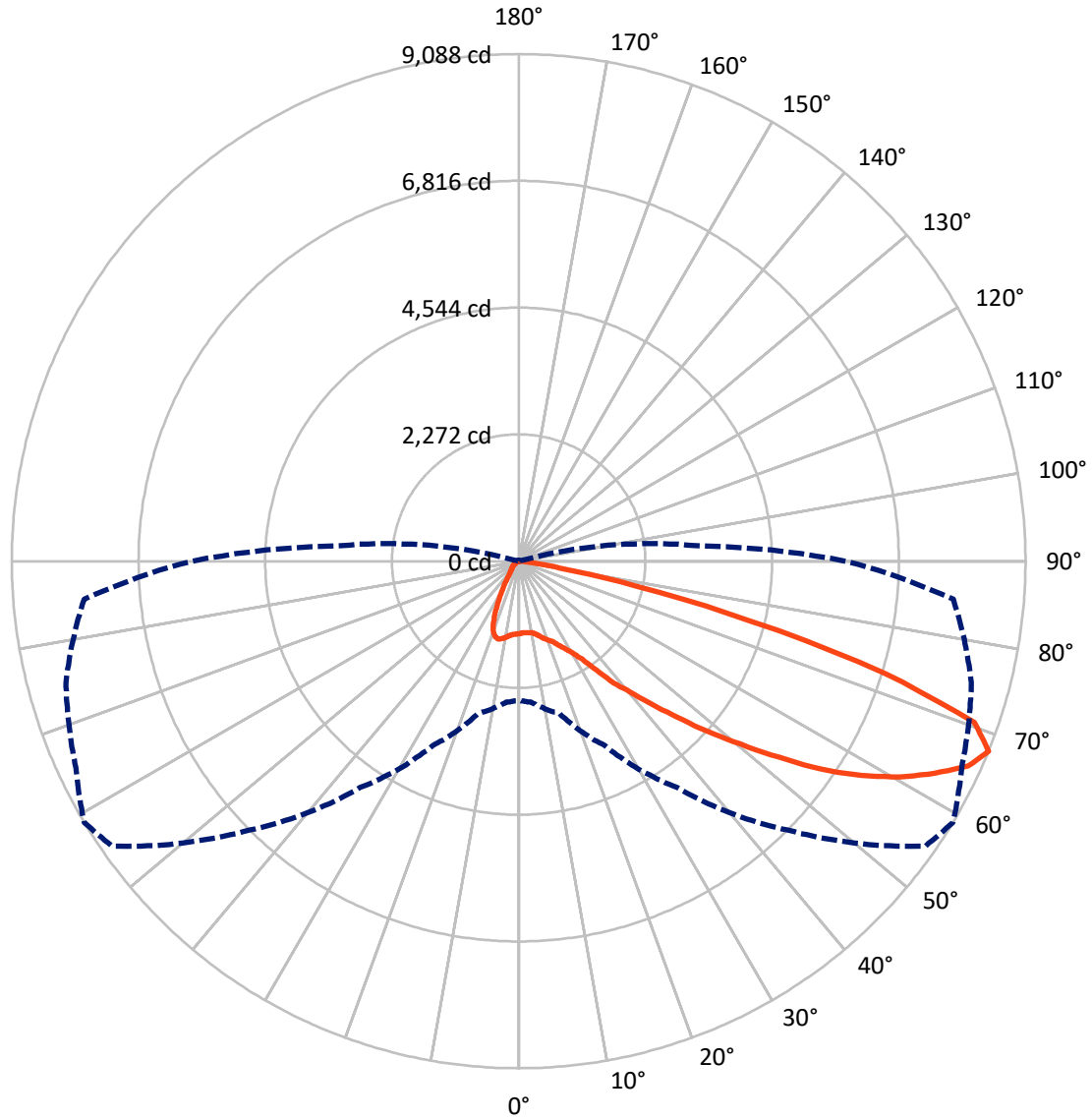
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1394.4	0.0	1394.4
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	10476.2	0.0	10476.2
	% Fixture	88.3	0.0	88.3
Total	Lumens	11870.7	0.0	11870.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.7	1.0
10°-20°	357.2	3.0
20°-30°	624.4	5.3
30°-40°	1099.3	9.3
40°-50°	1943.2	16.4
50°-60°	3076.8	25.9
60°-70°	3413.0	28.8
70°-80°	1184.2	10.0
80°-90°	48.8	0.4
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°	11870.7	100.0
0°-180°	11870.7	100.0

Coefficient of Utilization

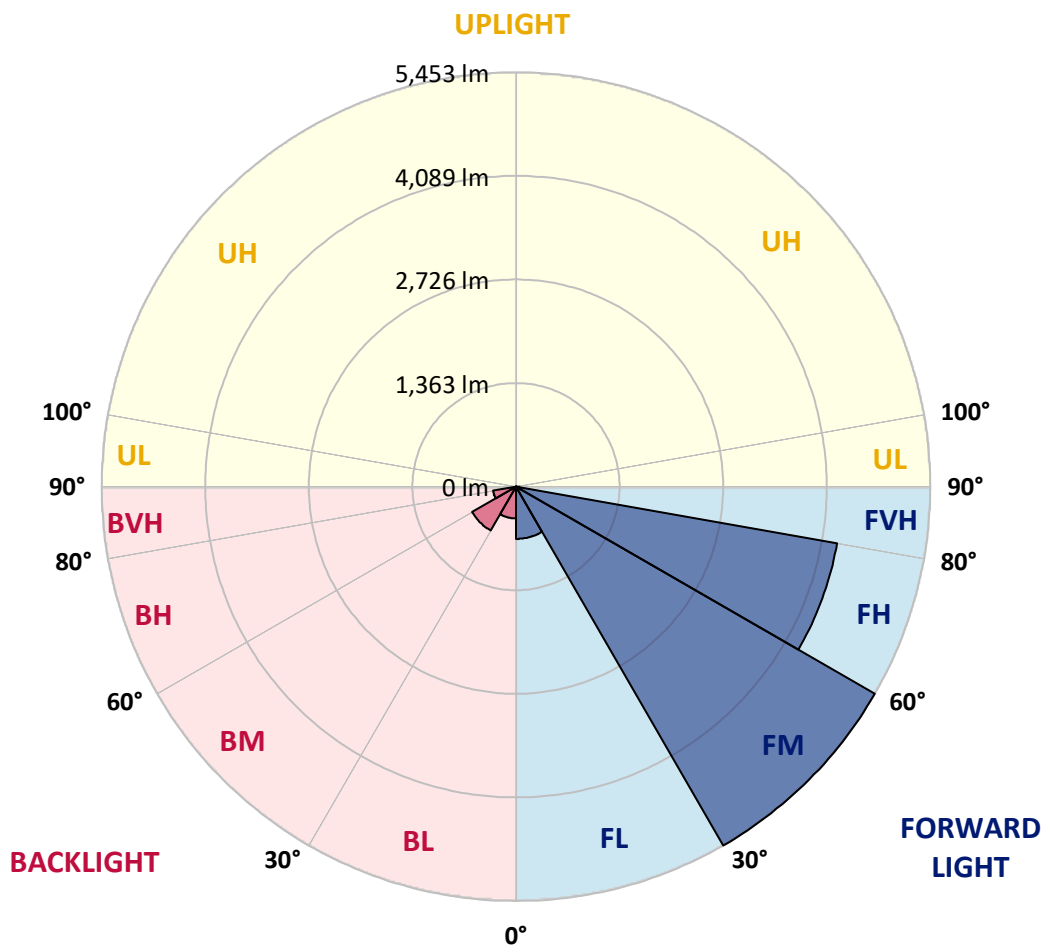


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	687.4	5.8			
FM (30°-60°)	5452.6	45.9			
FH (60°-80°)	4290.6	36.1			G2/5000
FVH (80°-90°)	45.6	0.4			G1/100
BL (0°-30°)	417.9	3.5	B1/500		
BM (30°-60°)	666.7	5.6	B1/1000		
BH (60°-80°)	306.7	2.6	B1/500		G1/500
BVH (80°-90°)	3.2	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0
2.5°	1264.3	1246.2	1262.6	1264.3	1265.9	1280.7	1297.1	1285.6	1284.0	1297.1	1308.6
5°	1213.4	1205.3	1224.9	1234.8	1251.2	1264.3	1290.5	1292.2	1293.8	1308.6	1328.2
7.5°	1192.1	1172.5	1195.4	1206.9	1218.4	1249.5	1280.7	1297.1	1320.0	1338.1	1357.8
10°	1149.5	1164.3	1170.8	1190.5	1223.3	1259.4	1297.1	1305.3	1356.1	1370.9	1418.4
12.5°	1164.3	1174.1	1187.2	1192.1	1228.2	1282.3	1333.2	1336.4	1388.9	1452.9	1477.5
15°	1202.0	1195.4	1200.3	1206.9	1249.5	1293.8	1375.8	1390.5	1439.7	1511.9	1572.6
17.5°	1282.3	1270.8	1262.6	1261.0	1270.8	1311.8	1408.6	1452.9	1498.8	1597.2	1628.3
20°	1484.0	1474.2	1441.4	1356.1	1326.6	1343.0	1447.9	1510.3	1574.2	1684.1	1734.9
22.5°	1790.7	1800.5	1723.4	1603.7	1480.7	1416.8	1510.3	1564.4	1666.0	1805.4	1851.3
25°	2153.1	2133.4	2039.9	1900.5	1707.0	1556.2	1610.3	1671.0	1795.6	1910.4	1928.4
27.5°	2436.7	2413.8	2341.6	2172.7	2005.5	1761.1	1741.5	1779.2	1926.8	2030.1	2010.4
30°	2717.1	2725.3	2676.1	2476.1	2269.5	2012.0	1887.4	1903.8	2016.9	2149.8	2105.5
32.5°	3074.6	3054.9	3027.1	2851.6	2607.3	2331.8	2118.6	2092.4	2141.6	2317.0	2264.6
35°	3407.5	3396.0	3358.3	3181.2	2968.0	2667.9	2459.7	2400.7	2389.2	2584.3	2492.5
37.5°	3697.7	3678.1	3620.7	3507.5	3300.9	3048.4	2820.4	2768.0	2766.3	2900.8	2723.7
40°	3942.1	3956.8	3950.3	3825.6	3712.5	3510.8	3161.5	3077.9	3071.3	3143.5	3040.2
42.5°	4258.6	4293.0	4274.9	4250.4	4114.2	4035.5	3640.3	3512.4	3455.1	3602.6	3509.2
45°	4737.4	4750.5	4762.0	4701.3	4565.2	4581.6	4135.6	3983.1	3968.3	4188.0	3978.1
47.5°	5185.0	5150.6	5230.9	5234.2	5227.7	5152.2	4670.1	4557.0	4576.7	4743.9	4527.5
50°	5296.5	5385.1	5606.5	5647.5	5754.0	5822.9	5263.7	5150.6	5183.4	5373.6	5126.0
52.5°	5383.5	5517.9	5739.3	6039.4	6326.3	6490.3	5927.9	5836.0	5834.4	5950.8	5609.7
55°	5536.0	5617.9	5809.8	6223.0	6769.1	7038.0	6728.1	6580.5	6447.7	6529.7	6111.5
57.5°	5521.2	5552.3	5850.8	6360.8	7120.0	7608.7	7385.6	7244.6	7074.1	7026.5	6688.7
60°	5262.1	5335.9	5670.4	6267.3	7336.4	8053.0	7998.9	7854.6	7561.1	7449.6	7131.5
62.5°	4748.8	4847.2	5109.6	5939.3	7021.6	8076.0	8422.0	8367.9	8039.9	7839.9	7708.7
65°	3848.6	3894.5	4196.2	5106.3	6309.9	7723.4	8922.1	8854.9	8553.2	8254.7	8005.5
67.5°	2492.5	2536.8	2827.0	3645.3	4955.5	6813.4	8902.5	9087.7	8761.4	8402.3	7820.2
70°	1177.4	1165.9	1436.5	2025.1	3174.6	5203.1	8300.6	8666.3	8389.2	7616.9	6495.2
72.5°	359.1	390.3	596.9	897.0	1630.0	3245.2	6506.7	6849.4	6762.5	6085.3	4335.6
75°	159.1	172.2	234.5	367.3	660.8	1331.5	4019.1	4324.1	4286.4	3589.5	1979.2
77.5°	101.7	111.5	147.6	209.9	300.1	423.1	1851.3	2148.1	2082.5	1261.0	518.2
80°	72.2	77.1	104.9	144.3	188.6	173.8	637.9	757.6	726.4	342.7	139.4
82.5°	39.4	42.6	77.1	106.6	126.3	88.5	178.7	223.0	232.9	152.5	67.2
85°	14.8	18.0	47.6	75.4	65.6	41.0	52.5	64.0	83.6	83.6	31.2
87.5°	0.0	1.6	19.7	32.8	16.4	11.5	14.8	18.0	23.0	39.4	11.5
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°	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0	1302.0
2.5°	1316.8	1305.3	1310.2	1318.4	1300.4	1310.2	1290.5	1305.3	1310.2	1290.5	1300.4
5°	1333.2	1344.6	1338.1	1325.0	1313.5	1316.8	1311.8	1300.4	1310.2	1313.5	1306.9
7.5°	1380.7	1367.6	1370.9	1356.1	1333.2	1331.5	1300.4	1292.2	1295.4	1298.7	1287.2
10°	1425.0	1433.2	1416.8	1405.3	1367.6	1343.0	1300.4	1254.4	1249.5	1229.8	1246.2
12.5°	1503.7	1484.0	1477.5	1439.7	1402.0	1320.0	1228.2	1157.7	1098.7	1077.3	1056.0
15°	1569.3	1566.0	1554.5	1497.1	1410.2	1261.0	1087.2	923.2	810.1	739.5	729.7
17.5°	1659.5	1644.7	1623.4	1533.2	1349.6	1106.9	810.1	603.4	490.3	446.0	429.6
20°	1728.3	1716.9	1687.4	1525.0	1239.7	824.8	501.8	383.7	355.8	347.6	349.3
22.5°	1828.4	1792.3	1736.5	1484.0	1039.6	549.3	360.8	342.7	337.8	331.2	332.9
25°	1915.3	1882.5	1766.1	1413.5	741.2	364.0	334.5	324.7	316.5	308.3	306.6
27.5°	1992.4	1951.4	1797.2	1269.2	464.1	313.2	309.9	298.4	282.0	268.9	264.0
30°	2067.8	2020.2	1805.4	998.6	313.2	283.7	275.5	257.4	236.1	218.1	214.8
32.5°	2194.0	2136.7	1793.9	713.3	270.6	252.5	234.5	213.2	182.0	167.3	164.0
35°	2390.8	2303.9	1779.2	419.8	242.7	223.0	195.1	167.3	144.3	129.5	126.3
37.5°	2617.1	2466.3	1736.5	280.4	223.0	196.8	160.7	132.8	113.1	101.7	98.4
40°	2953.3	2704.0	1572.6	229.6	198.4	167.3	129.5	104.9	90.2	82.0	78.7
42.5°	3323.9	2976.2	1320.0	206.6	175.5	142.7	103.3	85.3	73.8	65.6	65.6
45°	3768.3	3259.9	1018.3	188.6	155.8	118.1	85.3	68.9	59.0	52.5	49.2
47.5°	4263.5	3517.4	687.1	170.5	131.2	96.7	70.5	52.5	42.6	37.7	37.7
50°	4706.2	3745.3	437.8	149.2	114.8	80.4	57.4	42.6	34.4	27.9	26.2
52.5°	5108.0	3919.1	301.7	131.2	98.4	65.6	47.6	34.4	26.2	21.3	21.3
55°	5519.6	4007.7	223.0	113.1	85.3	55.8	39.4	31.2	23.0	18.0	16.4
57.5°	5857.4	4045.4	170.5	98.4	72.2	44.3	34.4	26.2	19.7	14.8	13.1
60°	6146.0	4027.3	132.8	82.0	57.4	37.7	29.5	21.3	16.4	11.5	9.8
62.5°	6314.9	3919.1	104.9	70.5	45.9	32.8	24.6	18.0	11.5	8.2	6.6
65°	6318.1	3689.5	82.0	52.5	34.4	27.9	21.3	14.8	8.2	3.3	1.6
67.5°	5865.6	3192.7	65.6	41.0	27.9	21.3	16.4	11.5	3.3	0.0	0.0
70°	4588.1	2415.4	54.1	32.8	23.0	18.0	11.5	6.6	1.6	0.0	0.0
72.5°	2923.8	1446.3	44.3	26.2	19.7	13.1	8.2	4.9	0.0	0.0	0.0
75°	1223.3	446.0	34.4	23.0	14.8	9.8	6.6	1.6	0.0	0.0	0.0
77.5°	314.8	141.0	27.9	19.7	14.8	8.2	4.9	1.6	0.0	0.0	0.0
80°	93.5	52.5	23.0	16.4	11.5	6.6	3.3	1.6	0.0	0.0	0.0
82.5°	42.6	31.2	19.7	14.8	9.8	6.6	3.3	0.0	0.0	0.0	0.0
85°	16.4	9.8	9.8	8.2	8.2	4.9	1.6	0.0	0.0	0.0	0.0
87.5°	6.6	3.3	3.3	3.3	1.6	1.6	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)