

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: P482444

Luminaire Tested: **IFLD-S-SA2D-740-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482444
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-740-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

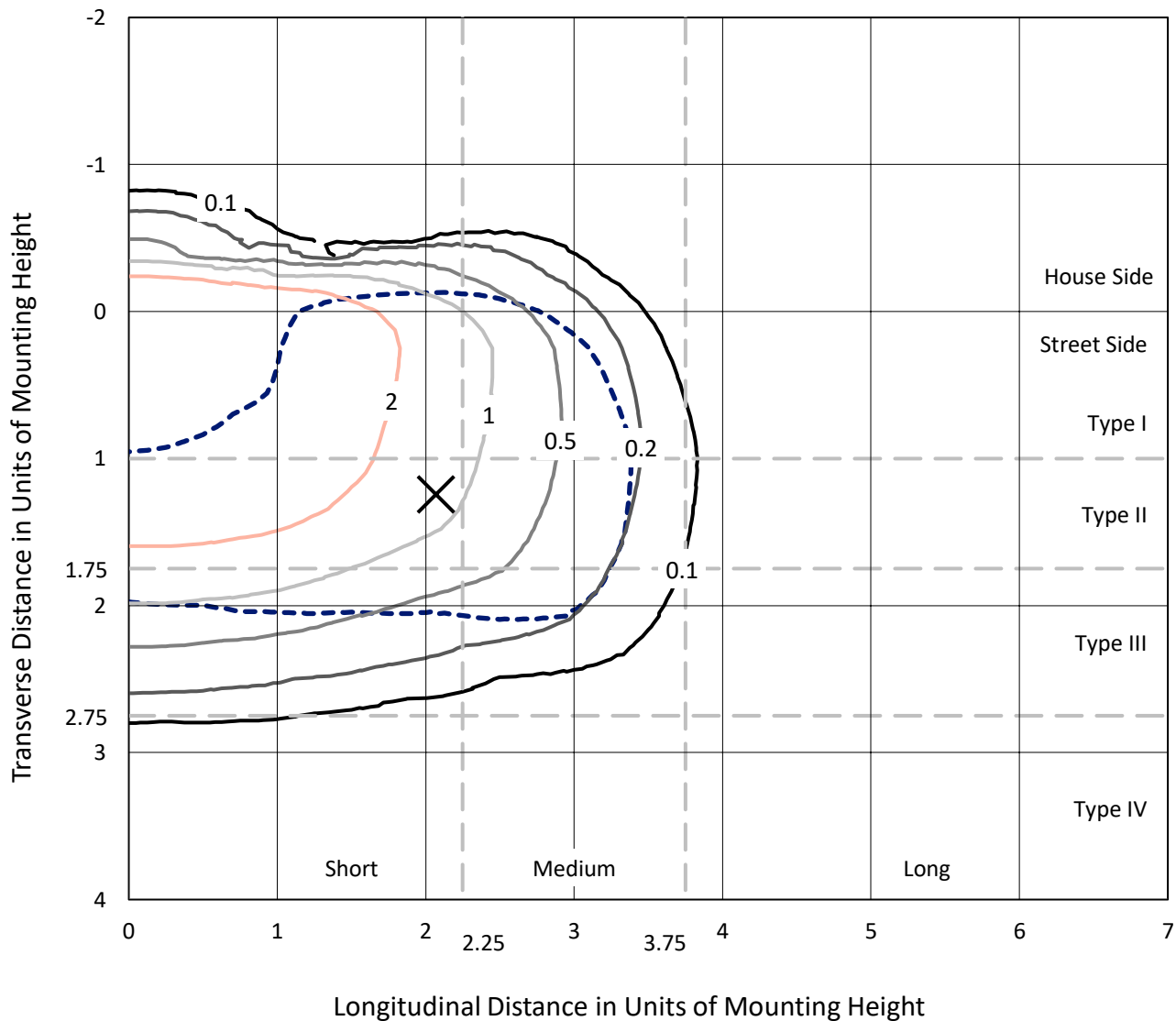
Lumens per Lamp: N/A
Luminaire Lumens: 11604.9 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (A_{in}): 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

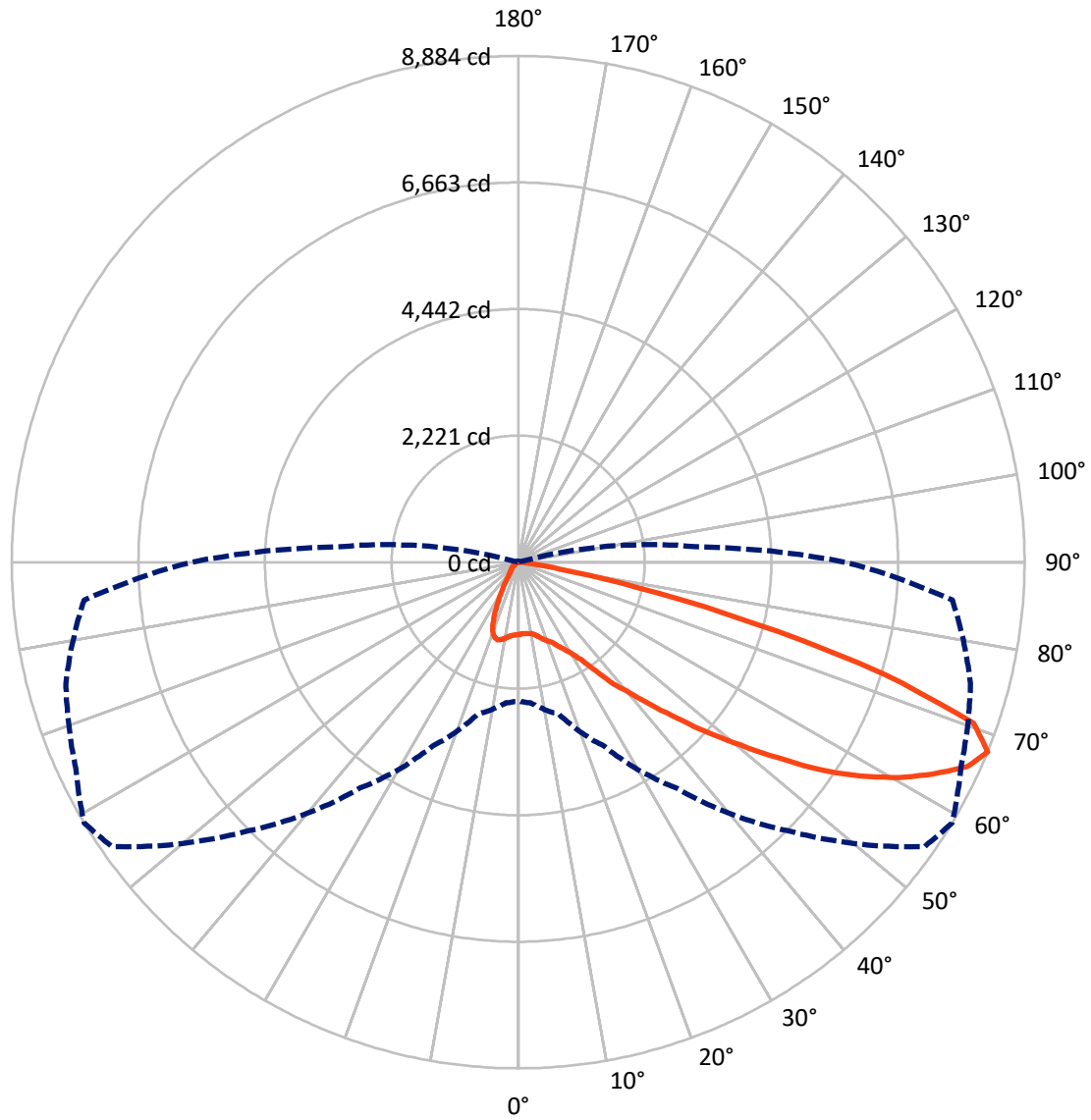
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 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	1363.2	0.0	1363.2
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	10241.7	0.0	10241.7
	% Fixture	88.3	0.0	88.3
Total	Lumens	11604.9	0.0	11604.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.9	1.0
10°-20°	349.2	3.0
20°-30°	610.4	5.3
30°-40°	1074.7	9.3
40°-50°	1899.7	16.4
50°-60°	3007.9	25.9
60°-70°	3336.6	28.8
70°-80°	1157.7	10.0
80°-90°	47.7	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°	11604.9	100.0
0°-180°	11604.9	100.0

Coefficient of Utilization

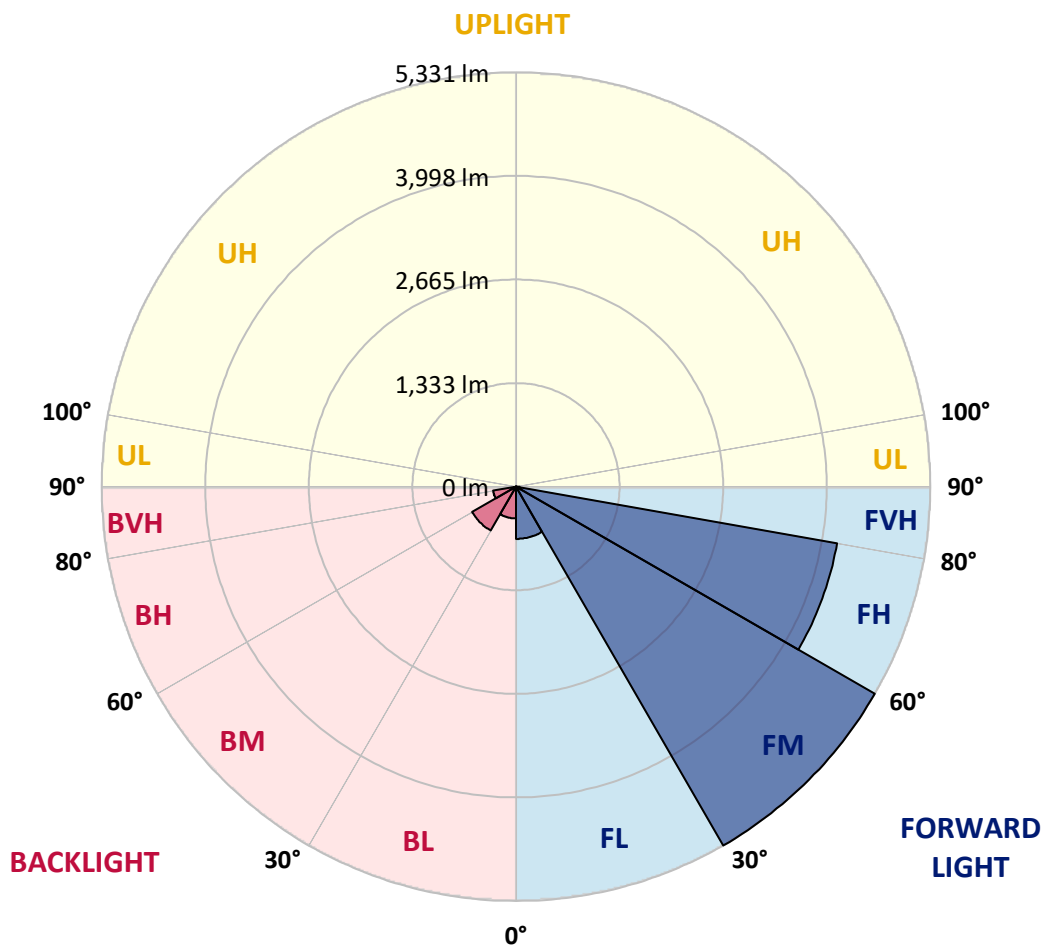


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	672.0	5.8			
FM (30°-60°)	5330.6	45.9			
FH (60°-80°)	4194.5	36.1			G2/5000
FVH (80°-90°)	44.6	0.4			G1/100
BL (0°-30°)	408.6	3.5	B1/500		
BM (30°-60°)	651.8	5.6	B1/1000		
BH (60°-80°)	299.8	2.6	B1/500		G1/500
BVH (80°-90°)	3.1	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°	1272.8	1272.8	1272.8	1272.8	1272.8	1272.8	1272.8	1272.8	1272.8	1272.8	1272.8
2.5°	1236.0	1218.3	1234.4	1236.0	1237.6	1252.0	1268.0	1256.8	1255.2	1268.0	1279.3
5°	1186.3	1178.3	1197.5	1207.1	1223.2	1236.0	1261.6	1263.2	1264.8	1279.3	1298.5
7.5°	1165.4	1146.2	1168.6	1179.9	1191.1	1221.6	1252.0	1268.0	1290.5	1308.1	1327.4
10°	1123.8	1138.2	1144.6	1163.8	1195.9	1231.2	1268.0	1276.1	1325.8	1340.2	1386.7
12.5°	1138.2	1147.8	1160.6	1165.4	1200.7	1253.6	1303.3	1306.5	1357.8	1420.3	1444.4
15°	1175.1	1168.6	1173.5	1179.9	1221.6	1264.8	1345.0	1359.4	1407.5	1478.0	1537.4
17.5°	1253.6	1242.4	1234.4	1232.8	1242.4	1282.5	1377.1	1420.3	1465.2	1561.4	1591.9
20°	1450.8	1441.2	1409.1	1325.8	1296.9	1312.9	1415.5	1476.4	1539.0	1646.4	1696.1
22.5°	1750.6	1760.2	1684.8	1567.8	1447.6	1385.1	1476.4	1529.3	1628.7	1765.0	1809.9
25°	2104.9	2085.6	1994.2	1858.0	1668.8	1521.3	1574.2	1633.5	1755.4	1867.6	1885.2
27.5°	2382.2	2359.7	2289.2	2124.1	1960.6	1721.7	1702.5	1739.3	1883.6	1984.6	1965.4
30°	2656.3	2664.3	2616.2	2420.7	2218.7	1967.0	1845.2	1861.2	1971.8	2101.6	2058.4
32.5°	3005.8	2986.5	2959.3	2787.8	2548.9	2279.6	2071.2	2045.5	2093.6	2265.2	2213.9
35°	3331.2	3320.0	3283.1	3110.0	2901.6	2608.2	2404.6	2346.9	2335.7	2526.5	2436.7
37.5°	3615.0	3595.7	3539.6	3429.0	3227.0	2980.1	2757.3	2706.0	2704.4	2835.9	2662.7
40°	3853.8	3868.2	3861.8	3740.0	3629.4	3432.2	3090.7	3009.0	3002.6	3073.1	2972.1
42.5°	4163.2	4196.9	4179.2	4155.2	4022.1	3945.2	3558.8	3433.8	3377.7	3522.0	3430.6
45°	4631.3	4644.1	4655.4	4596.0	4463.0	4479.0	4043.0	3893.9	3879.5	4094.3	3889.1
47.5°	5069.0	5035.3	5113.8	5117.0	5110.6	5036.9	4565.6	4455.0	4474.2	4637.7	4426.1
50°	5178.0	5264.5	5480.9	5521.0	5625.2	5692.6	5145.9	5035.3	5067.4	5253.3	5011.2
52.5°	5262.9	5394.4	5610.8	5904.2	6184.7	6345.0	5795.2	5705.4	5703.8	5817.6	5484.2
55°	5412.0	5492.2	5679.7	6083.7	6617.5	6880.4	6577.5	6433.2	6303.3	6383.5	5974.7
57.5°	5397.6	5428.0	5719.8	6218.4	6960.6	7438.3	7220.3	7082.4	6915.7	6869.2	6539.0
60°	5144.3	5216.4	5543.5	6127.0	7172.2	7872.8	7819.9	7678.8	7391.8	7282.8	6971.8
62.5°	4642.5	4738.7	4995.2	5806.4	6864.4	7895.2	8233.4	8180.5	7859.9	7664.4	7536.1
65°	3762.4	3807.3	4102.3	4992.0	6168.7	7550.5	8722.4	8656.7	8361.7	8069.9	7826.3
67.5°	2436.7	2480.0	2763.7	3563.7	4844.5	6660.8	8703.2	8884.3	8565.3	8214.2	7645.1
70°	1151.0	1139.8	1404.3	1979.8	3103.6	5086.6	8114.8	8472.3	8201.4	7446.3	6349.8
72.5°	351.1	381.5	583.5	876.9	1593.5	3172.5	6361.0	6696.1	6611.1	5949.0	4238.6
75°	155.5	168.3	229.2	359.1	646.0	1301.7	3929.2	4227.3	4190.5	3509.2	1934.9
77.5°	99.4	109.0	144.3	205.2	293.4	413.6	1809.9	2100.0	2035.9	1232.8	506.6
80°	70.5	75.3	102.6	141.1	184.4	169.9	623.6	740.6	710.2	335.0	136.3
82.5°	38.5	41.7	75.3	104.2	123.4	86.6	174.7	218.0	227.6	149.1	65.7
85°	14.4	17.6	46.5	73.7	64.1	40.1	51.3	62.5	81.8	81.8	30.5
87.5°	0.0	1.6	19.2	32.1	16.0	11.2	14.4	17.6	22.4	38.5	11.2
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°	1272.8	1272.8	1272.8	1272.8	1272.8	1272.8	1272.8	1272.8	1272.8	1272.8	1272.8
2.5°	1287.3	1276.1	1280.9	1288.9	1271.2	1280.9	1261.6	1276.1	1280.9	1261.6	1271.2
5°	1303.3	1314.5	1308.1	1295.3	1284.1	1287.3	1282.5	1271.2	1280.9	1284.1	1277.7
7.5°	1349.8	1337.0	1340.2	1325.8	1303.3	1301.7	1271.2	1263.2	1266.4	1269.6	1258.4
10°	1393.1	1401.1	1385.1	1373.8	1337.0	1312.9	1271.2	1226.4	1221.6	1202.3	1218.3
12.5°	1470.0	1450.8	1444.4	1407.5	1370.6	1290.5	1200.7	1131.8	1074.1	1053.2	1032.4
15°	1534.2	1530.9	1519.7	1463.6	1378.7	1232.8	1062.8	902.5	791.9	723.0	713.4
17.5°	1622.3	1607.9	1587.1	1498.9	1319.3	1082.1	791.9	589.9	479.3	436.0	420.0
20°	1689.7	1678.4	1649.6	1490.9	1211.9	806.4	490.5	375.1	347.9	339.9	341.5
22.5°	1787.4	1752.2	1697.7	1450.8	1016.4	537.0	352.7	335.0	330.2	323.8	325.4
25°	1872.4	1840.3	1726.5	1381.9	724.6	355.9	327.0	317.4	309.4	301.4	299.8
27.5°	1947.7	1907.7	1757.0	1240.8	453.7	306.2	303.0	291.8	275.7	262.9	258.1
30°	2021.5	1975.0	1765.0	976.3	306.2	277.3	269.3	251.7	230.8	213.2	210.0
32.5°	2144.9	2088.8	1753.8	697.3	264.5	246.9	229.2	208.4	177.9	163.5	160.3
35°	2337.3	2252.3	1739.3	410.4	237.3	218.0	190.8	163.5	141.1	126.6	123.4
37.5°	2558.5	2411.0	1697.7	274.1	218.0	192.4	157.1	129.8	110.6	99.4	96.2
40°	2887.2	2643.5	1537.4	224.4	194.0	163.5	126.6	102.6	88.2	80.2	76.9
42.5°	3249.5	2909.6	1290.5	202.0	171.5	139.5	101.0	83.4	72.1	64.1	64.1
45°	3683.9	3186.9	995.5	184.4	152.3	115.4	83.4	67.3	57.7	51.3	48.1
47.5°	4168.0	3438.6	671.7	166.7	128.2	94.6	68.9	51.3	41.7	36.9	36.9
50°	4600.9	3661.4	428.0	145.9	112.2	78.6	56.1	41.7	33.7	27.3	25.6
52.5°	4993.6	3831.4	295.0	128.2	96.2	64.1	46.5	33.7	25.6	20.8	20.8
55°	5396.0	3917.9	218.0	110.6	83.4	54.5	38.5	30.5	22.4	17.6	16.0
57.5°	5726.2	3954.8	166.7	96.2	70.5	43.3	33.7	25.6	19.2	14.4	12.8
60°	6008.4	3937.2	129.8	80.2	56.1	36.9	28.9	20.8	16.0	11.2	9.6
62.5°	6173.5	3831.4	102.6	68.9	44.9	32.1	24.0	17.6	11.2	8.0	6.4
65°	6176.7	3606.9	80.2	51.3	33.7	27.3	20.8	14.4	8.0	3.2	1.6
67.5°	5734.2	3121.2	64.1	40.1	27.3	20.8	16.0	11.2	3.2	0.0	0.0
70°	4485.4	2361.3	52.9	32.1	22.4	17.6	11.2	6.4	1.6	0.0	0.0
72.5°	2858.3	1413.9	43.3	25.6	19.2	12.8	8.0	4.8	0.0	0.0	0.0
75°	1195.9	436.0	33.7	22.4	14.4	9.6	6.4	1.6	0.0	0.0	0.0
77.5°	307.8	137.9	27.3	19.2	14.4	8.0	4.8	1.6	0.0	0.0	0.0
80°	91.4	51.3	22.4	16.0	11.2	6.4	3.2	1.6	0.0	0.0	0.0
82.5°	41.7	30.5	19.2	14.4	9.6	6.4	3.2	0.0	0.0	0.0	0.0
85°	16.0	9.6	9.6	8.0	8.0	4.8	1.6	0.0	0.0	0.0	0.0
87.5°	6.4	3.2	3.2	3.2	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)