

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: P482584

Luminaire Tested: **IFLD-M-SA4B-827-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482584
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-827-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

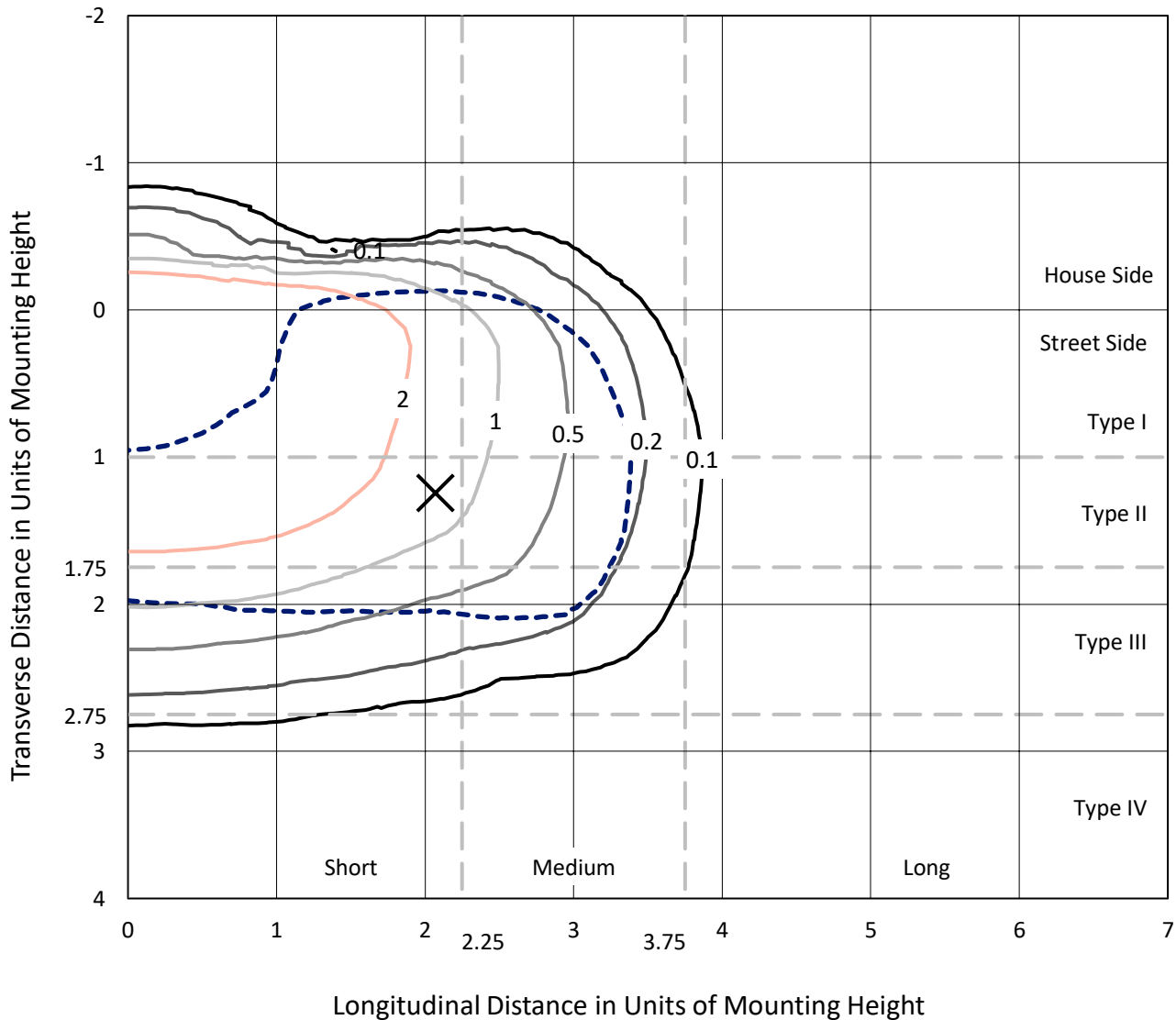
Lumens per Lamp: N/A
Luminaire Lumens: 12458 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 166.1
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

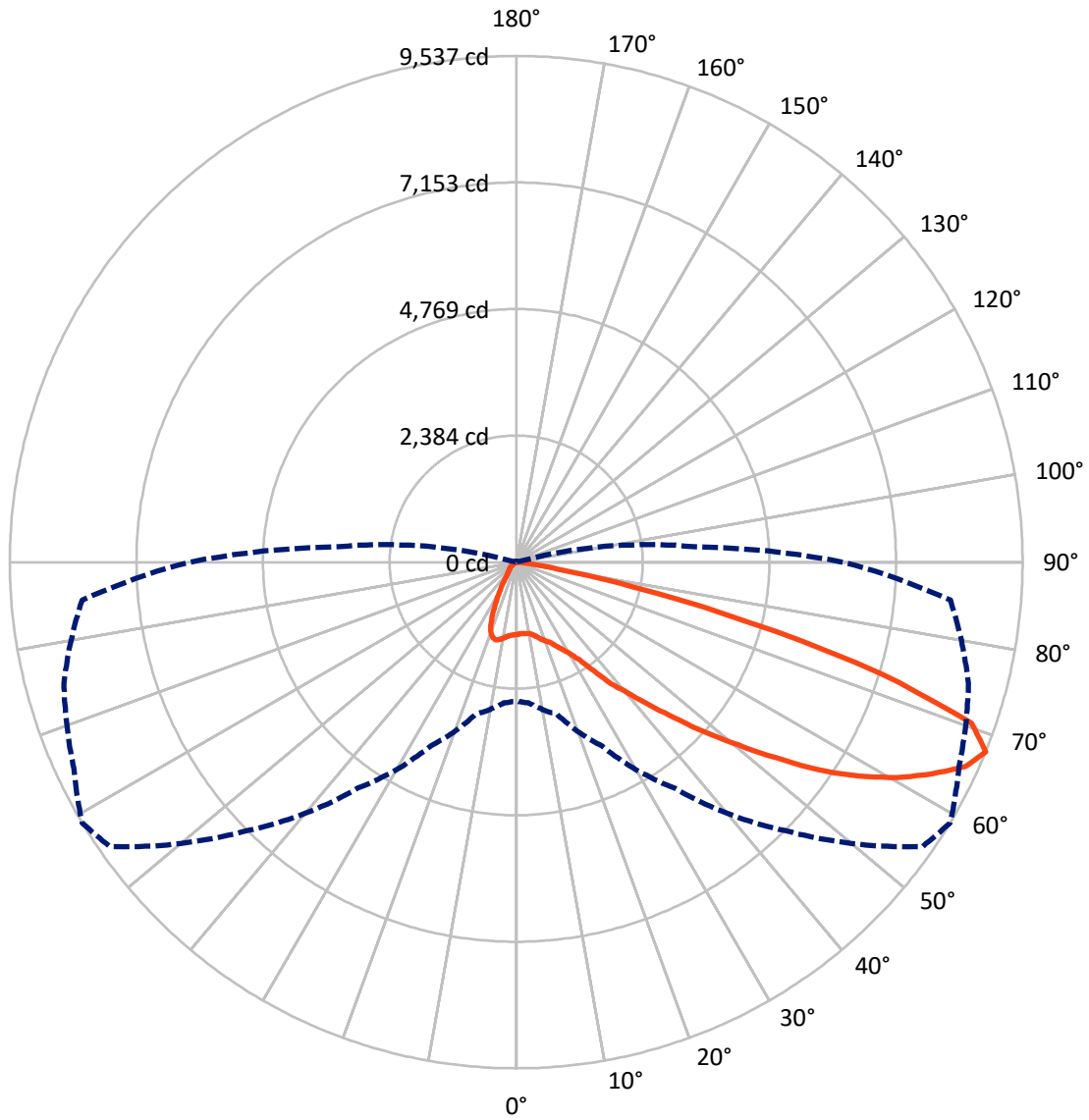
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 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	1463.4	0.0	1463.4
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	10994.6	0.0	10994.6
	% Fixture	88.3	0.0	88.3
Total	Lumens	12458.0	0.0	12458.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.8	1.0
10°-20°	374.9	3.0
20°-30°	655.3	5.3
30°-40°	1153.7	9.3
40°-50°	2039.4	16.4
50°-60°	3229.0	25.9
60°-70°	3581.9	28.8
70°-80°	1242.8	10.0
80°-90°	51.2	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°	12458.0	100.0
0°-180°	12458.0	100.0

Coefficient of Utilization

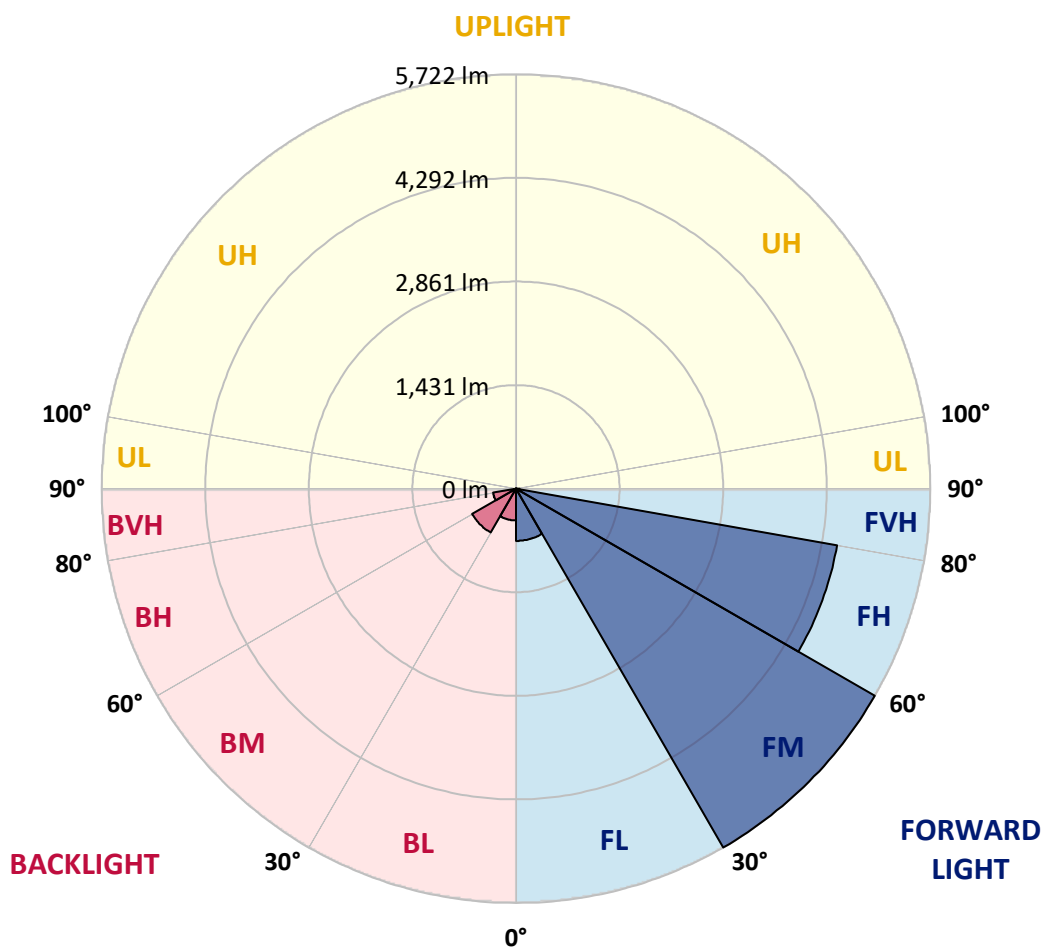


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	721.4	5.8			
FM (30°-60°)	5722.4	45.9			
FH (60°-80°)	4502.9	36.1			G2/5000
FVH (80°-90°)	47.9	0.4			G1/100
BL (0°-30°)	438.6	3.5	B1/500		
BM (30°-60°)	699.7	5.6	B1/1000		
BH (60°-80°)	321.8	2.6	B1/500		G1/500
BVH (80°-90°)	3.3	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°	1366.4	1366.4	1366.4	1366.4	1366.4	1366.4	1366.4	1366.4	1366.4	1366.4	1366.4
2.5°	1326.8	1307.9	1325.1	1326.8	1328.6	1344.1	1361.3	1349.2	1347.5	1361.3	1373.3
5°	1273.5	1264.9	1285.5	1295.9	1313.1	1326.8	1354.4	1356.1	1357.8	1373.3	1394.0
7.5°	1251.1	1230.5	1254.6	1266.6	1278.7	1311.4	1344.1	1361.3	1385.4	1404.3	1424.9
10°	1206.4	1221.9	1228.7	1249.4	1283.8	1321.7	1361.3	1369.9	1423.2	1438.7	1488.6
12.5°	1221.9	1232.2	1246.0	1251.1	1289.0	1345.8	1399.1	1402.6	1457.6	1524.8	1550.6
15°	1261.4	1254.6	1259.7	1266.6	1311.4	1357.8	1443.9	1459.4	1511.0	1586.7	1650.4
17.5°	1345.8	1333.7	1325.1	1323.4	1333.7	1376.7	1478.3	1524.8	1572.9	1676.2	1708.9
20°	1557.4	1547.1	1512.7	1423.2	1392.2	1409.4	1519.6	1585.0	1652.1	1767.4	1820.8
22.5°	1879.3	1889.6	1808.7	1683.1	1554.0	1486.9	1585.0	1641.8	1748.5	1894.8	1942.9
25°	2259.6	2238.9	2140.8	1994.6	1791.5	1633.2	1690.0	1753.6	1884.4	2004.9	2023.8
27.5°	2557.3	2533.2	2457.5	2280.2	2104.7	1848.3	1827.6	1867.2	2022.1	2130.5	2109.9
30°	2851.6	2860.2	2808.6	2598.6	2381.8	2111.6	1980.8	1998.0	2116.8	2256.1	2209.7
32.5°	3226.8	3206.1	3176.9	2992.7	2736.3	2447.2	2223.5	2195.9	2247.5	2431.7	2376.6
35°	3576.1	3564.1	3524.5	3338.6	3114.9	2800.0	2581.4	2519.5	2507.4	2712.2	2615.8
37.5°	3880.7	3860.1	3799.8	3681.1	3464.2	3199.2	2960.0	2904.9	2903.2	3044.3	2858.5
40°	4137.1	4152.6	4145.7	4014.9	3896.2	3684.5	3318.0	3230.2	3223.3	3299.0	3190.6
42.5°	4469.3	4505.4	4486.5	4460.7	4317.8	4235.2	3820.5	3686.2	3626.0	3780.9	3682.8
45°	4971.8	4985.6	4997.6	4933.9	4791.1	4808.3	4340.2	4180.2	4164.7	4395.3	4175.0
47.5°	5441.6	5405.5	5489.8	5493.2	5486.3	5407.2	4901.2	4782.5	4803.1	4978.7	4751.5
50°	5558.6	5651.6	5883.9	5926.9	6038.8	6111.0	5524.2	5405.5	5439.9	5639.5	5379.7
52.5°	5649.8	5791.0	6023.3	6338.2	6639.4	6811.5	6221.2	6124.8	6123.1	6245.3	5887.3
55°	5809.9	5895.9	6097.3	6531.0	7104.0	7386.3	7061.0	6906.1	6766.7	6852.8	6413.9
57.5°	5794.4	5827.1	6140.3	6675.5	7472.3	7985.1	7751.1	7603.1	7424.1	7374.2	7019.7
60°	5522.5	5599.9	5951.0	6577.4	7699.5	8451.5	8394.7	8243.3	7935.2	7818.2	7484.4
62.5°	4983.8	5087.1	5362.4	6233.2	7369.1	8475.6	8838.7	8781.9	8437.8	8227.8	8090.1
65°	4039.0	4087.2	4403.9	5359.0	6622.2	8105.6	9363.6	9293.1	8976.4	8663.2	8401.6
67.5°	2615.8	2662.3	2966.9	3825.6	5200.7	7150.5	9343.0	9537.4	9195.0	8818.1	8207.2
70°	1235.6	1223.6	1507.5	2125.4	3331.7	5460.5	8711.4	9095.2	8804.3	7993.8	6816.6
72.5°	376.9	409.6	626.4	941.4	1710.6	3405.7	6828.7	7188.4	7097.1	6386.4	4550.2
75°	166.9	180.7	246.1	385.5	693.5	1397.4	4218.0	4538.1	4498.5	3767.1	2077.2
77.5°	106.7	117.0	154.9	220.3	314.9	444.0	1942.9	2254.4	2185.6	1323.4	543.8
80°	75.7	80.9	110.1	151.4	197.9	182.4	669.4	795.1	762.4	359.7	146.3
82.5°	41.3	44.7	80.9	111.9	132.5	92.9	187.6	234.0	244.4	160.0	70.6
85°	15.5	18.9	49.9	79.2	68.8	43.0	55.1	67.1	87.8	87.8	32.7
87.5°	0.0	1.7	20.7	34.4	17.2	12.0	15.5	18.9	24.1	41.3	12.0
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°	1366.4	1366.4	1366.4	1366.4	1366.4	1366.4	1366.4	1366.4	1366.4	1366.4	1366.4
2.5°	1381.9	1369.9	1375.0	1383.6	1364.7	1375.0	1354.4	1369.9	1375.0	1354.4	1364.7
5°	1399.1	1411.2	1404.3	1390.5	1378.5	1381.9	1376.7	1364.7	1375.0	1378.5	1371.6
7.5°	1449.0	1435.3	1438.7	1423.2	1399.1	1397.4	1364.7	1356.1	1359.5	1363.0	1350.9
10°	1495.5	1504.1	1486.9	1474.8	1435.3	1409.4	1364.7	1316.5	1311.4	1290.7	1307.9
12.5°	1578.1	1557.4	1550.6	1511.0	1471.4	1385.4	1289.0	1215.0	1153.0	1130.7	1108.3
15°	1646.9	1643.5	1631.4	1571.2	1480.0	1323.4	1141.0	968.9	850.1	776.1	765.8
17.5°	1741.6	1726.1	1703.7	1609.1	1416.3	1161.6	850.1	633.3	514.6	468.1	450.9
20°	1813.9	1801.8	1770.8	1600.5	1301.0	865.6	526.6	402.7	373.4	364.8	366.6
22.5°	1918.8	1881.0	1822.5	1557.4	1091.1	576.5	378.6	359.7	354.5	347.6	349.4
25°	2010.1	1975.6	1853.4	1483.4	777.9	382.0	351.1	340.7	332.1	323.5	321.8
27.5°	2090.9	2047.9	1886.1	1332.0	487.0	328.7	325.3	313.2	296.0	282.2	277.1
30°	2170.1	2120.2	1894.8	1048.1	328.7	297.7	289.1	270.2	247.8	228.9	225.4
32.5°	2302.6	2242.4	1882.7	748.6	284.0	265.0	246.1	223.7	191.0	175.5	172.1
35°	2509.1	2417.9	1867.2	440.6	254.7	234.0	204.8	175.5	151.4	136.0	132.5
37.5°	2746.6	2588.3	1822.5	294.3	234.0	206.5	168.7	139.4	118.7	106.7	103.3
40°	3099.4	2837.8	1650.4	240.9	208.2	175.5	136.0	110.1	94.7	86.0	82.6
42.5°	3488.3	3123.5	1385.4	216.8	184.1	149.7	108.4	89.5	77.4	68.8	68.8
45°	3954.7	3421.2	1068.7	197.9	163.5	123.9	89.5	72.3	62.0	55.1	51.6
47.5°	4474.4	3691.4	721.1	179.0	137.7	101.5	74.0	55.1	44.7	39.6	39.6
50°	4939.1	3930.6	459.5	156.6	120.5	84.3	60.2	44.7	36.1	29.3	27.5
52.5°	5360.7	4113.0	316.7	137.7	103.3	68.8	49.9	36.1	27.5	22.4	22.4
55°	5792.7	4206.0	234.0	118.7	89.5	58.5	41.3	32.7	24.1	18.9	17.2
57.5°	6147.2	4245.6	179.0	103.3	75.7	46.5	36.1	27.5	20.7	15.5	13.8
60°	6450.1	4226.6	139.4	86.0	60.2	39.6	31.0	22.4	17.2	12.0	10.3
62.5°	6627.3	4113.0	110.1	74.0	48.2	34.4	25.8	18.9	12.0	8.6	6.9
65°	6630.8	3872.1	86.0	55.1	36.1	29.3	22.4	15.5	8.6	3.4	1.7
67.5°	6155.8	3350.7	68.8	43.0	29.3	22.4	17.2	12.0	3.4	0.0	0.0
70°	4815.2	2534.9	56.8	34.4	24.1	18.9	12.0	6.9	1.7	0.0	0.0
72.5°	3068.4	1517.9	46.5	27.5	20.7	13.8	8.6	5.2	0.0	0.0	0.0
75°	1283.8	468.1	36.1	24.1	15.5	10.3	6.9	1.7	0.0	0.0	0.0
77.5°	330.4	148.0	29.3	20.7	15.5	8.6	5.2	1.7	0.0	0.0	0.0
80°	98.1	55.1	24.1	17.2	12.0	6.9	3.4	1.7	0.0	0.0	0.0
82.5°	44.7	32.7	20.7	15.5	10.3	6.9	3.4	0.0	0.0	0.0	0.0
85°	17.2	10.3	10.3	8.6	8.6	5.2	1.7	0.0	0.0	0.0	0.0
87.5°	6.9	3.4	3.4	3.4	1.7	1.7	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)