

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: P482605

Luminaire Tested: **IFLD-S-SA3D-830-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482605
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-830-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

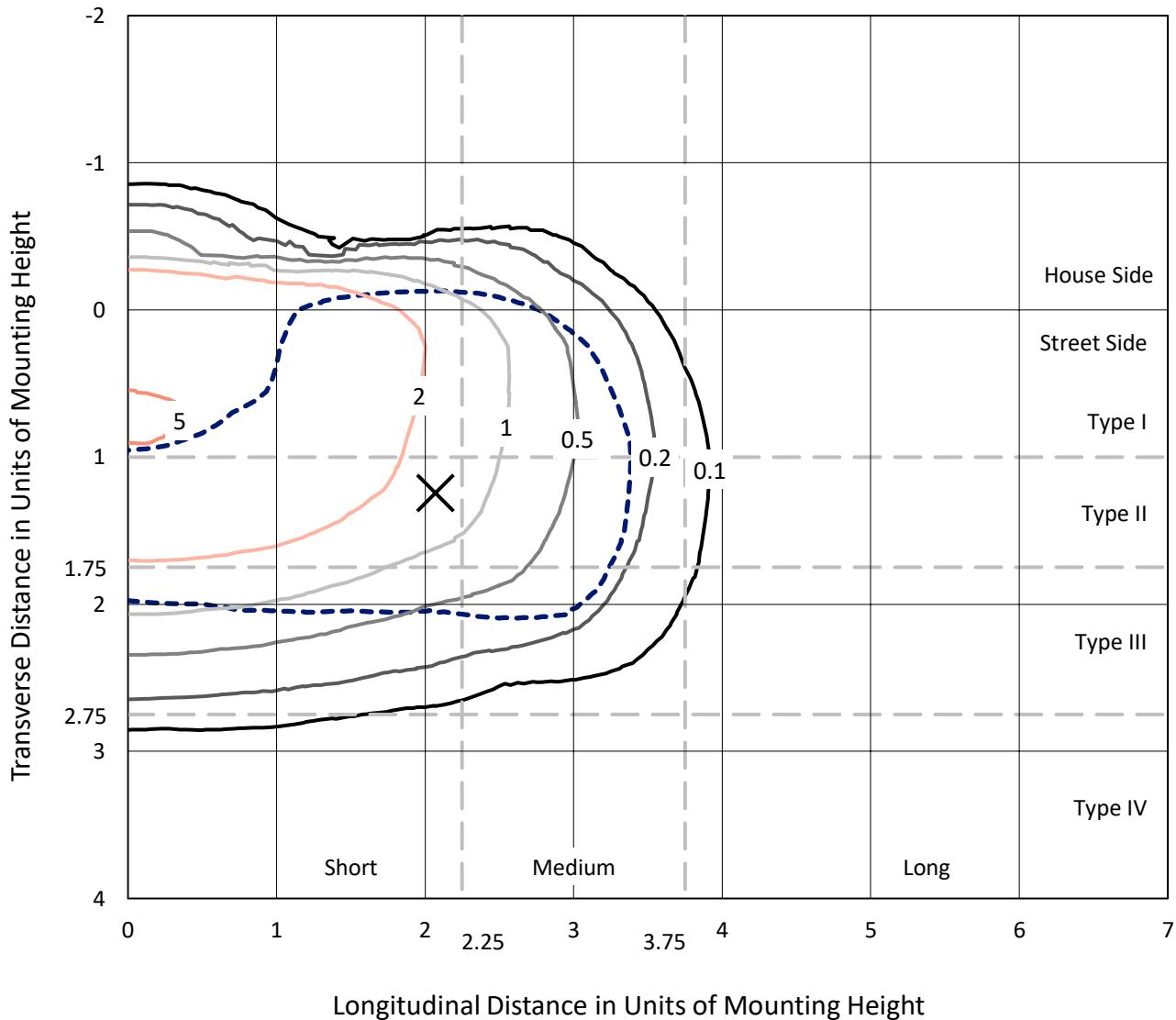
Lumens per Lamp: N/A
Luminaire Lumens: 13742.1 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 184.1
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

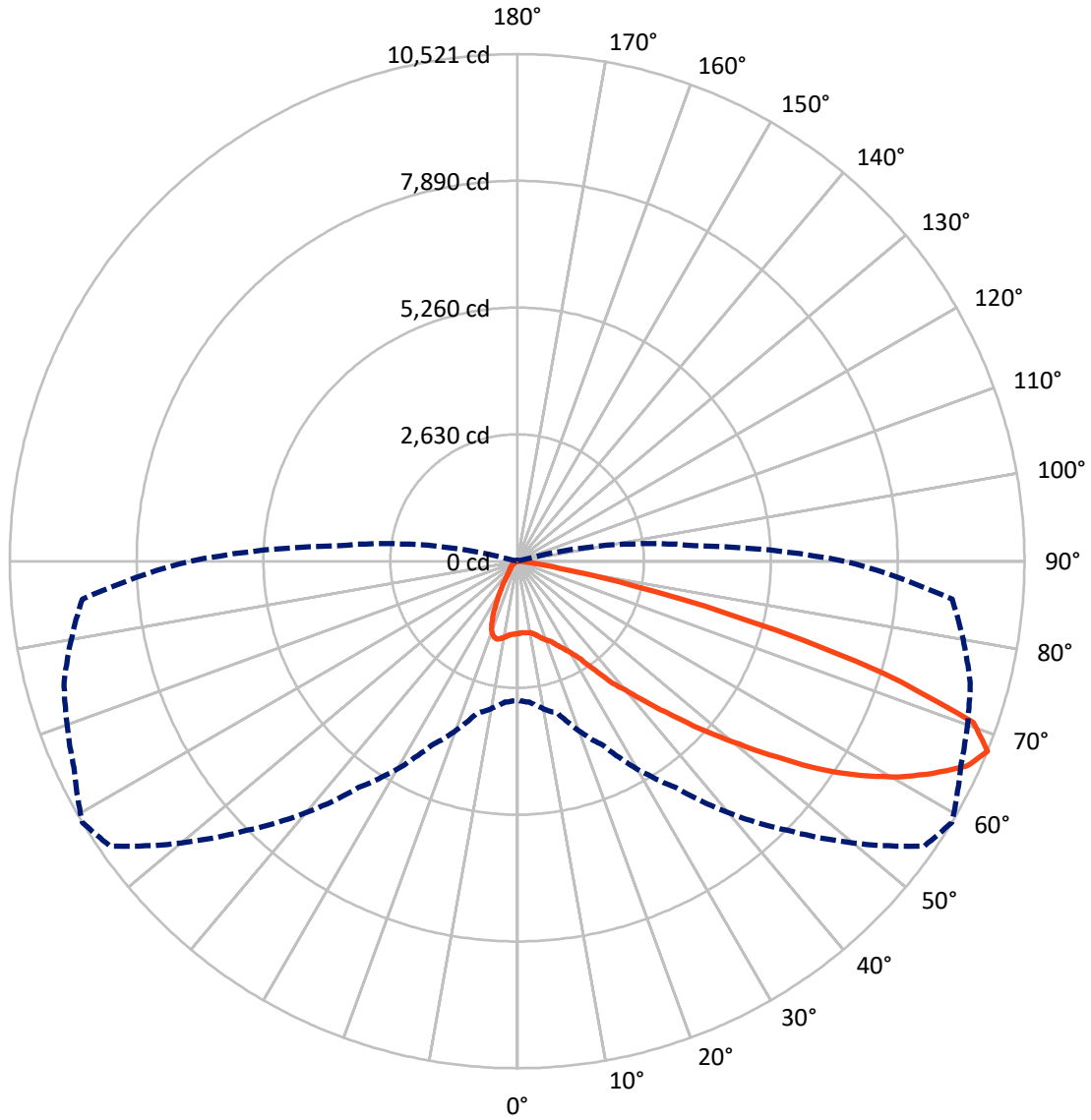
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 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	1614.3	0.0	1614.3
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	12127.9	0.0	12127.9
	% Fixture	88.3	0.0	88.3
Total	Lumens	13742.1	0.0	13742.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.2	1.0
10°-20°	413.6	3.0
20°-30°	722.8	5.3
30°-40°	1272.6	9.3
40°-50°	2249.6	16.4
50°-60°	3561.9	25.9
60°-70°	3951.1	28.8
70°-80°	1370.9	10.0
80°-90°	56.5	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°	13742.1	100.0
0°-180°	13742.1	100.0

Coefficient of Utilization

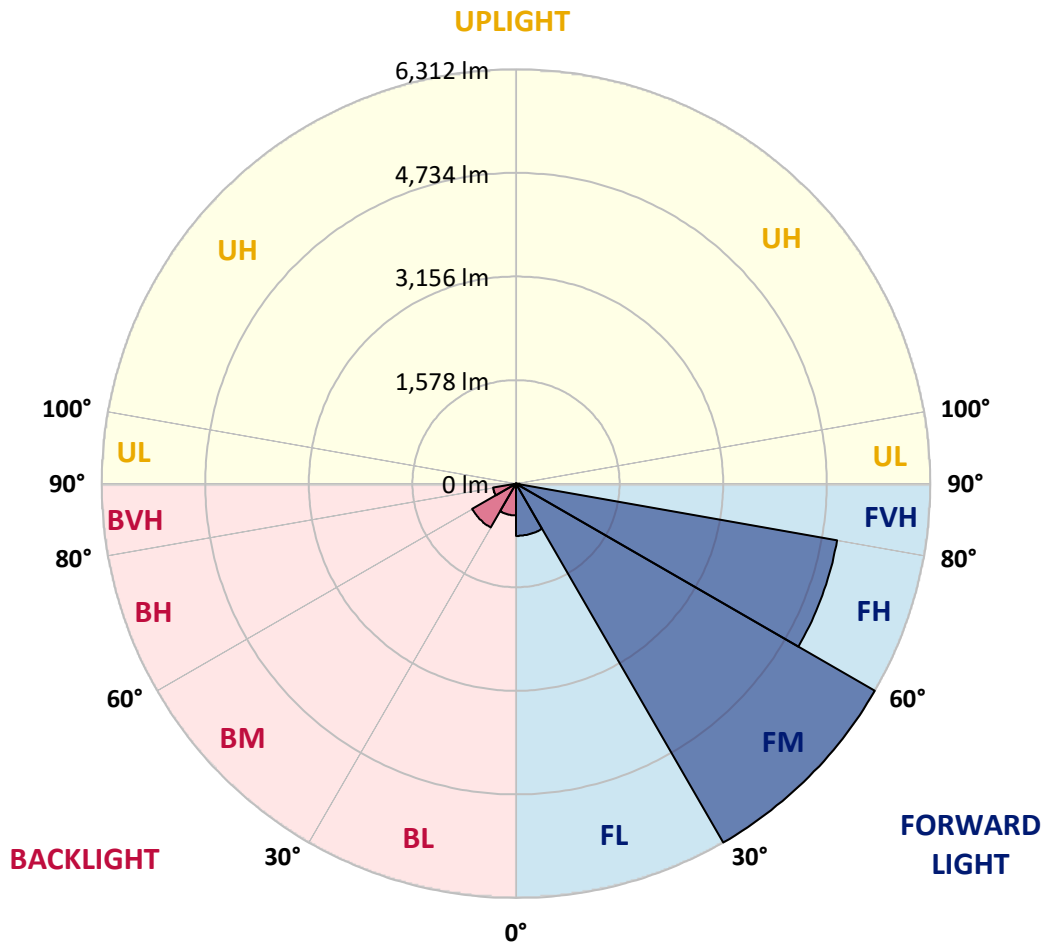


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	795.8	5.8			
FM (30°-60°)	6312.3	45.9			
FH (60°-80°)	4967.0	36.1			G2/5000
FVH (80°-90°)	52.8	0.4			G1/100
BL (0°-30°)	483.8	3.5	B1/500		
BM (30°-60°)	771.8	5.6	B1/1000		
BH (60°-80°)	355.0	2.6	B1/500		G1/500
BVH (80°-90°)	3.7	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°	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3
2.5°	1463.6	1442.7	1461.7	1463.6	1465.5	1482.6	1501.6	1488.3	1486.4	1501.6	1514.9
5°	1404.8	1395.3	1418.0	1429.4	1448.4	1463.6	1494.0	1495.9	1497.8	1514.9	1537.6
7.5°	1380.1	1357.3	1383.9	1397.2	1410.4	1446.5	1482.6	1501.6	1528.1	1549.0	1571.8
10°	1330.7	1347.8	1355.4	1378.2	1416.1	1457.9	1501.6	1511.1	1569.9	1587.0	1642.0
12.5°	1347.8	1359.2	1374.4	1380.1	1421.8	1484.5	1543.3	1547.1	1607.9	1681.9	1710.4
15°	1391.5	1383.9	1389.6	1397.2	1446.5	1497.8	1592.7	1609.8	1666.7	1750.2	1820.5
17.5°	1484.5	1471.2	1461.7	1459.8	1471.2	1518.7	1630.7	1681.9	1735.1	1849.0	1885.0
20°	1718.0	1706.6	1668.6	1569.9	1535.7	1554.7	1676.2	1748.3	1822.4	1949.6	2008.4
22.5°	2073.0	2084.3	1995.1	1856.6	1714.2	1640.1	1748.3	1811.0	1928.7	2090.0	2143.2
25°	2492.5	2469.7	2361.5	2200.1	1976.1	1801.5	1864.1	1934.4	2078.7	2211.5	2232.4
27.5°	2820.9	2794.3	2710.8	2515.3	2321.6	2038.8	2016.0	2059.7	2230.5	2350.1	2327.3
30°	3145.5	3155.0	3098.0	2866.5	2627.3	2329.2	2185.0	2203.9	2334.9	2488.7	2437.4
32.5°	3559.3	3536.6	3504.3	3301.2	3018.3	2699.4	2452.6	2422.2	2479.2	2682.3	2621.6
35°	3944.7	3931.4	3887.7	3682.7	3435.9	3088.6	2847.5	2779.1	2765.8	2991.7	2885.4
37.5°	4280.7	4257.9	4191.5	4060.5	3821.3	3529.0	3265.1	3204.4	3202.5	3358.1	3153.1
40°	4563.5	4580.6	4573.0	4428.8	4297.8	4064.3	3660.0	3563.1	3555.5	3639.1	3519.5
42.5°	4929.9	4969.8	4948.9	4920.4	4762.9	4671.8	4214.3	4066.2	3999.7	4170.6	4062.4
45°	5484.2	5499.4	5512.7	5442.5	5284.9	5303.9	4787.5	4611.0	4593.9	4848.3	4605.3
47.5°	6002.5	5962.6	6055.6	6059.4	6051.8	5964.5	5406.4	5275.4	5298.2	5491.8	5241.2
50°	6131.6	6234.1	6490.3	6537.8	6661.2	6740.9	6093.6	5962.6	6000.6	6220.8	5934.1
52.5°	6232.2	6387.8	6644.1	6991.5	7323.7	7513.5	6862.4	6756.1	6754.2	6889.0	6494.1
55°	6408.7	6503.6	6725.7	7204.1	7836.2	8147.6	7788.8	7617.9	7464.2	7559.1	7075.0
57.5°	6391.6	6427.7	6773.2	7363.6	8242.5	8808.2	8550.0	8386.8	8189.3	8134.3	7743.2
60°	6091.7	6177.1	6564.4	7255.4	8493.1	9322.6	9260.0	9092.9	8753.1	8624.0	8255.8
62.5°	5497.5	5611.4	5915.1	6875.7	8128.6	9349.2	9749.7	9687.1	9307.4	9075.8	8924.0
65°	4455.3	4508.5	4857.8	5911.4	7304.7	8941.1	10328.7	10250.9	9901.6	9556.1	9267.6
67.5°	2885.4	2936.7	3272.7	4220.0	5736.7	7887.5	10306.0	10520.5	10142.7	9727.0	9053.1
70°	1363.0	1349.7	1662.9	2344.4	3675.1	6023.4	9609.3	10032.6	9711.8	8817.7	7519.2
72.5°	415.7	451.8	691.0	1038.4	1886.9	3756.8	7532.5	7929.3	7828.7	7044.6	5019.1
75°	184.1	199.3	271.5	425.2	765.0	1541.4	4652.8	5005.9	4962.2	4155.4	2291.3
77.5°	117.7	129.1	170.8	243.0	347.4	489.8	2143.2	2486.8	2410.9	1459.8	599.9
80°	83.5	89.2	121.5	167.1	218.3	201.2	738.4	877.0	841.0	396.7	161.4
82.5°	45.6	49.4	89.2	123.4	146.2	102.5	206.9	258.2	269.6	176.5	77.8
85°	17.1	20.9	55.1	87.3	75.9	47.5	60.7	74.0	96.8	96.8	36.1
87.5°	0.0	1.9	22.8	38.0	19.0	13.3	17.1	20.9	26.6	45.6	13.3
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°	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3	1507.3
2.5°	1524.3	1511.1	1516.8	1526.2	1505.4	1516.8	1494.0	1511.1	1516.8	1494.0	1505.4
5°	1543.3	1556.6	1549.0	1533.8	1520.6	1524.3	1518.7	1505.4	1516.8	1520.6	1513.0
7.5°	1598.4	1583.2	1587.0	1569.9	1543.3	1541.4	1505.4	1495.9	1499.7	1503.5	1490.2
10°	1649.6	1659.1	1640.1	1626.9	1583.2	1554.7	1505.4	1452.2	1446.5	1423.7	1442.7
12.5°	1740.8	1718.0	1710.4	1666.7	1623.1	1528.1	1421.8	1340.2	1271.9	1247.2	1222.5
15°	1816.7	1812.9	1799.6	1733.2	1632.6	1459.8	1258.6	1068.8	937.8	856.1	844.8
17.5°	1921.1	1904.0	1879.3	1774.9	1562.3	1281.4	937.8	698.6	567.6	516.3	497.4
20°	2000.8	1987.5	1953.4	1765.4	1435.1	954.9	580.9	444.2	411.9	402.4	404.3
22.5°	2116.6	2074.9	2010.3	1718.0	1203.5	635.9	417.6	396.7	391.1	383.5	385.4
25°	2217.2	2179.3	2044.5	1636.3	858.0	421.4	387.3	375.9	366.4	356.9	355.0
27.5°	2306.5	2259.0	2080.6	1469.3	537.2	362.6	358.8	345.5	326.5	311.3	305.6
30°	2393.8	2338.7	2090.0	1156.1	362.6	328.4	318.9	298.0	273.4	252.5	248.7
32.5°	2539.9	2473.5	2076.8	825.8	313.2	292.3	271.5	246.8	210.7	193.6	189.8
35°	2767.7	2667.1	2059.7	486.0	281.0	258.2	225.9	193.6	167.1	150.0	146.2
37.5°	3029.7	2855.1	2010.3	324.6	258.2	227.8	186.0	153.8	131.0	117.7	113.9
40°	3418.9	3130.3	1820.5	265.8	229.7	193.6	150.0	121.5	104.4	94.9	91.1
42.5°	3847.9	3445.4	1528.1	239.2	203.1	165.2	119.6	98.7	85.4	75.9	75.9
45°	4362.3	3773.8	1178.9	218.3	180.3	136.7	98.7	79.7	68.3	60.7	56.9
47.5°	4935.6	4071.9	795.4	197.4	151.9	112.0	81.6	60.7	49.4	43.7	43.7
50°	5448.2	4335.8	506.9	172.7	132.9	93.0	66.4	49.4	39.9	32.3	30.4
52.5°	5913.3	4537.0	349.3	151.9	113.9	75.9	55.1	39.9	30.4	24.7	24.7
55°	6389.7	4639.5	258.2	131.0	98.7	64.5	45.6	36.1	26.6	20.9	19.0
57.5°	6780.8	4683.1	197.4	113.9	83.5	51.3	39.9	30.4	22.8	17.1	15.2
60°	7114.9	4662.3	153.8	94.9	66.4	43.7	34.2	24.7	19.0	13.3	11.4
62.5°	7310.4	4537.0	121.5	81.6	53.2	38.0	28.5	20.9	13.3	9.5	7.6
65°	7314.2	4271.2	94.9	60.7	39.9	32.3	24.7	17.1	9.5	3.8	1.9
67.5°	6790.3	3696.0	75.9	47.5	32.3	24.7	19.0	13.3	3.8	0.0	0.0
70°	5311.5	2796.2	62.6	38.0	26.6	20.9	13.3	7.6	1.9	0.0	0.0
72.5°	3384.7	1674.3	51.3	30.4	22.8	15.2	9.5	5.7	0.0	0.0	0.0
75°	1416.1	516.3	39.9	26.6	17.1	11.4	7.6	1.9	0.0	0.0	0.0
77.5°	364.5	163.3	32.3	22.8	17.1	9.5	5.7	1.9	0.0	0.0	0.0
80°	108.2	60.7	26.6	19.0	13.3	7.6	3.8	1.9	0.0	0.0	0.0
82.5°	49.4	36.1	22.8	17.1	11.4	7.6	3.8	0.0	0.0	0.0	0.0
85°	19.0	11.4	11.4	9.5	9.5	5.7	1.9	0.0	0.0	0.0	0.0
87.5°	7.6	3.8	3.8	3.8	1.9	1.9	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)