

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: P483651

Luminaire Tested: **IFLD-S-SA2B-750-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483651
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-750-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

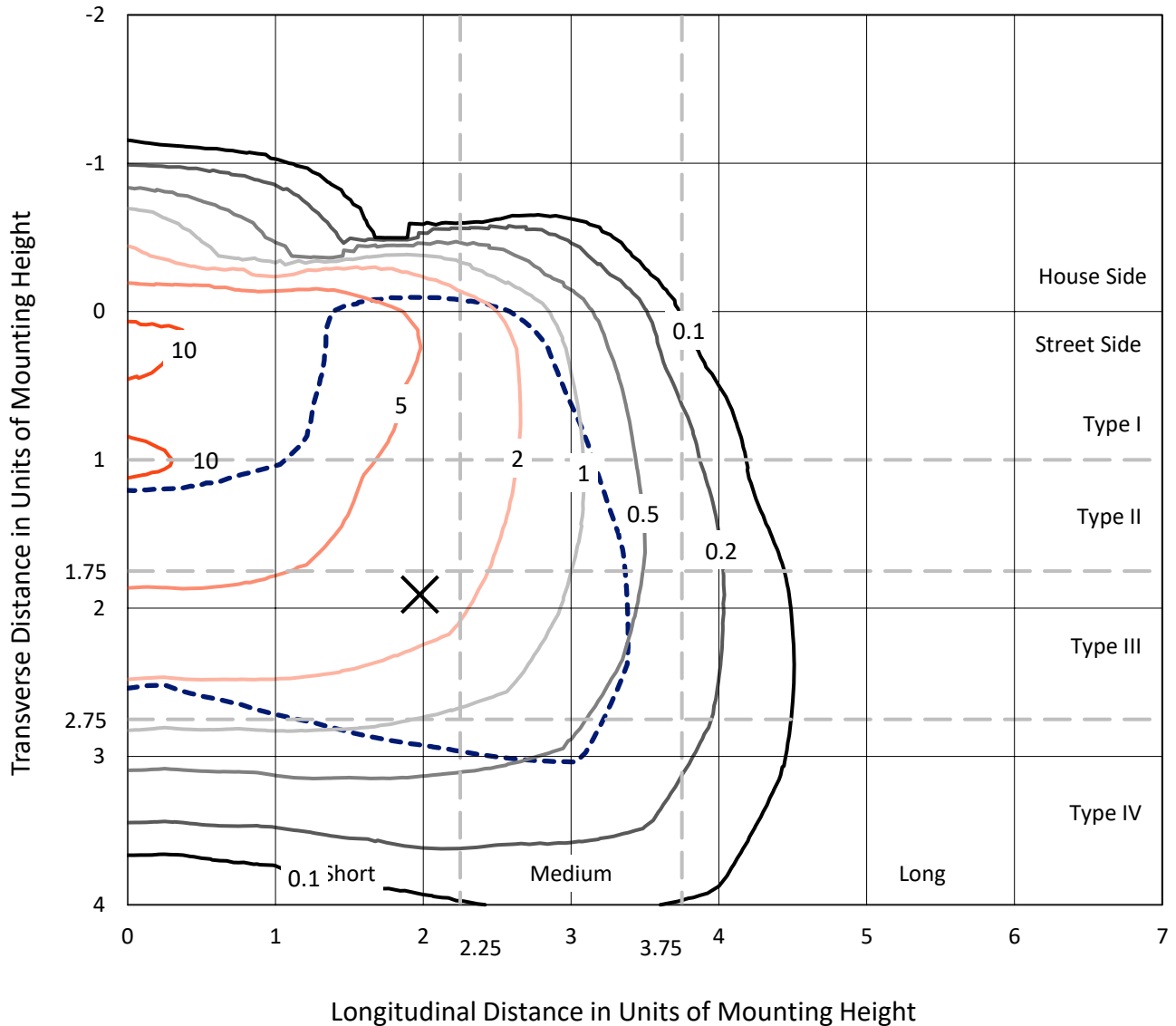
Lumens per Lamp: N/A
Luminaire Lumens: 8617.4 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4
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

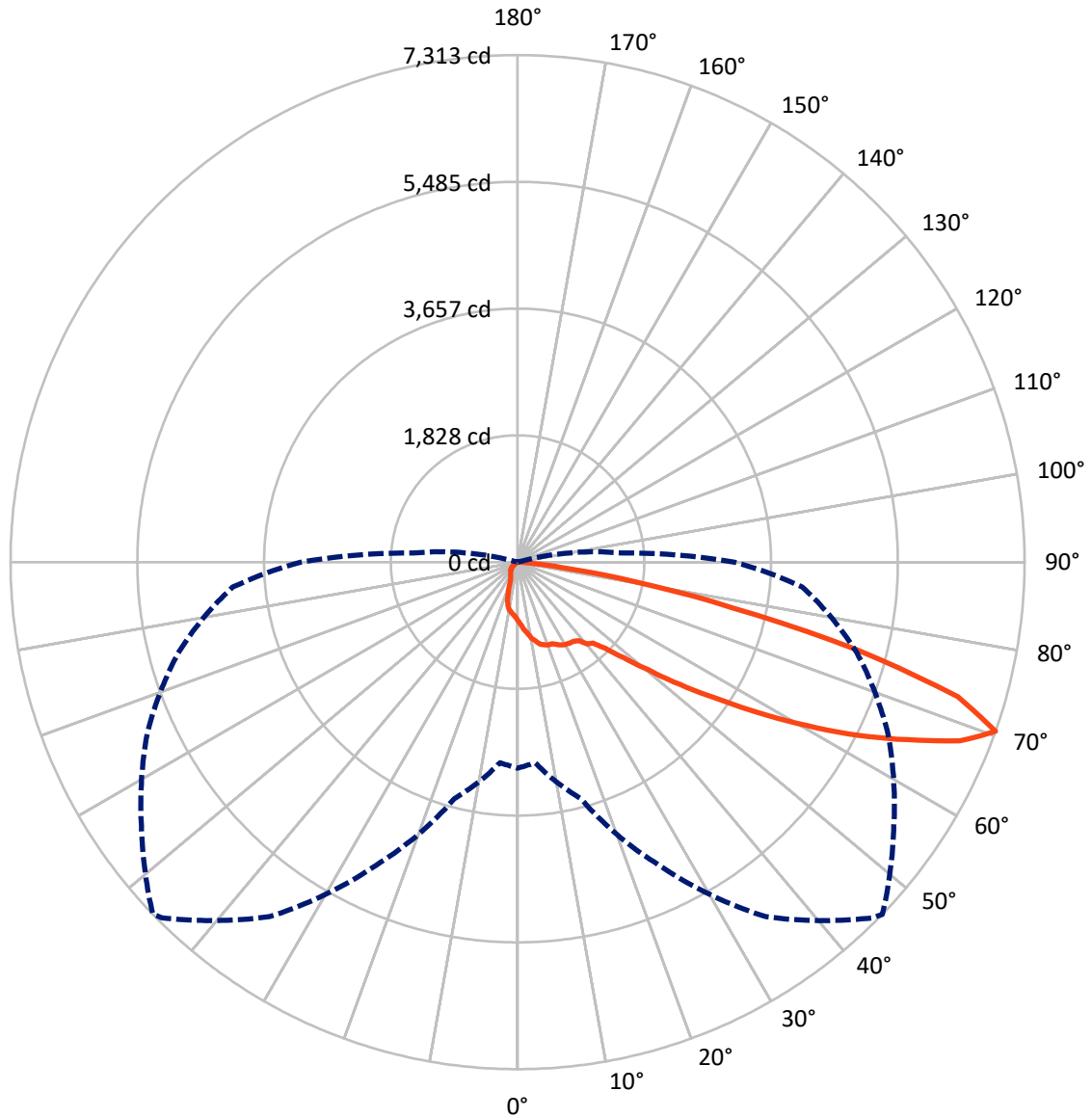
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.3 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
House Side	Lumens	857.5	0.0	857.5
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	7759.9	0.0	7759.9
	% Fixture	90.0	0.0	90.0
Total	Lumens	8617.4	0.0	8617.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.3	1.0
10°-20°	254.7	3.0
20°-30°	408.0	4.7
30°-40°	582.4	6.8
40°-50°	1005.7	11.7
50°-60°	1925.4	22.3
60°-70°	2851.2	33.1
70°-80°	1412.2	16.4
80°-90°	93.3	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°	8617.4	100.0
0°-180°	8617.4	100.0

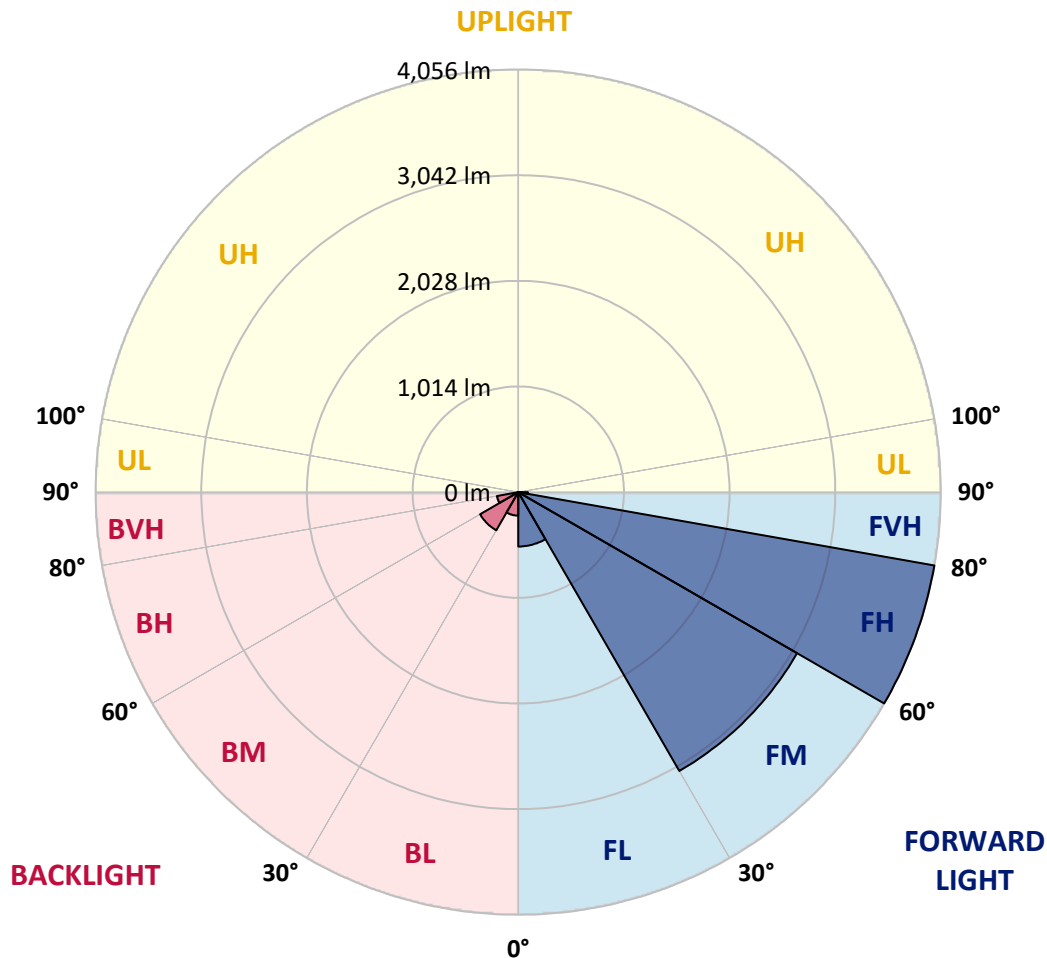


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	521.8	6.1			
FM (30°-60°)	3090.2	35.9			
FH (60°-80°)	4055.8	47.1			G2/5000
FVH (80°-90°)	92.1	1.1			G1/100
BL (0°-30°)	225.3	2.6	B1/500		
BM (30°-60°)	423.3	4.9	B1/1000		
BH (60°-80°)	207.7	2.4	B1/500		G1/500
BVH (80°-90°)	1.2	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	846.0	846.0	846.0	846.0	846.0	846.0	846.0	846.0	846.0	846.0	846.0
2.5°	943.9	937.7	927.8	924.1	914.2	909.2	901.8	898.1	884.4	870.8	862.1
5°	1059.3	1044.4	1049.4	1034.5	1002.2	976.2	975.0	946.4	915.4	890.6	857.1
7.5°	1175.9	1163.5	1144.9	1123.8	1087.8	1049.4	1038.2	1010.9	967.5	924.1	879.4
10°	1264.0	1255.3	1239.2	1209.4	1159.8	1116.4	1117.6	1071.7	1025.8	976.2	915.4
12.5°	1318.6	1322.3	1298.7	1268.9	1225.5	1170.9	1169.7	1138.7	1086.6	1034.5	962.6
15°	1373.1	1386.8	1350.8	1316.1	1260.3	1220.6	1228.0	1190.8	1139.9	1080.4	1001.0
17.5°	1381.8	1385.5	1378.1	1327.2	1286.3	1252.8	1254.0	1229.2	1190.8	1126.3	1058.1
20°	1366.9	1364.4	1355.8	1318.6	1291.3	1271.4	1272.7	1266.5	1245.4	1193.3	1100.2
22.5°	1323.5	1323.5	1312.3	1287.5	1275.1	1293.7	1278.9	1302.4	1280.1	1249.1	1172.2
25°	1288.8	1302.4	1296.2	1280.1	1285.1	1309.9	1317.3	1339.6	1335.9	1297.5	1221.8
27.5°	1326.0	1309.9	1313.6	1295.0	1313.6	1350.8	1354.5	1370.6	1369.4	1338.4	1266.5
30°	1350.8	1365.7	1337.2	1296.2	1316.1	1379.3	1376.8	1397.9	1407.9	1370.6	1308.6
32.5°	1430.2	1417.8	1394.2	1339.6	1342.1	1378.1	1389.3	1416.5	1422.7	1400.4	1349.6
35°	1592.7	1574.1	1471.1	1389.3	1376.8	1394.2	1401.7	1455.0	1466.2	1441.4	1393.0
37.5°	1843.2	1801.1	1677.0	1495.9	1440.1	1436.4	1436.4	1507.1	1549.3	1492.2	1457.5
40°	2201.7	2142.2	2008.2	1693.2	1523.2	1538.1	1553.0	1591.4	1586.5	1549.3	1541.8
42.5°	2658.2	2612.3	2467.2	2024.3	1682.0	1607.6	1595.2	1647.3	1725.4	1710.5	1705.6
45°	3039.0	3041.5	2948.4	2478.3	1956.1	1767.6	1776.3	1816.0	1947.4	1936.3	1935.0
47.5°	3316.8	3282.1	3268.5	2916.2	2355.5	2071.5	2059.1	2086.4	2257.5	2328.2	2360.5
50°	3569.9	3546.3	3514.1	3341.7	2835.6	2452.3	2439.9	2442.4	2704.1	2803.3	2882.7
52.5°	3883.7	3913.5	3806.8	3701.4	3457.0	2947.2	2933.6	2885.2	3210.2	3346.6	3440.9
55°	4270.7	4214.9	4094.6	4149.2	4051.2	3481.8	3457.0	3399.9	3787.0	3844.0	3943.2
57.5°	4356.3	4314.1	4438.2	4631.7	4725.9	4109.5	4099.5	3996.6	4272.0	4219.9	4500.2
60°	4569.7	4580.8	4753.2	5137.8	5301.5	4833.9	4785.5	4604.4	4742.1	4752.0	5050.9
62.5°	4789.2	4763.2	5148.9	5518.6	5770.4	5519.8	5503.7	5144.0	5300.3	5173.7	5569.4
65°	4628.0	4667.6	5219.6	5838.6	6378.2	6190.9	6177.2	5663.7	5749.3	5591.7	5780.3
67.5°	4054.9	3974.3	4747.0	5692.2	6690.7	6894.2	6879.3	6230.6	6002.3	5589.3	5342.4
70°	2972.0	2902.5	3532.7	4820.2	6243.0	7253.9	7313.4	6625.0	5899.4	5068.3	4121.9
72.5°	1456.2	1457.5	1979.7	3268.5	4939.3	6611.4	6641.1	6074.3	5068.3	3736.1	2334.4
75°	430.4	435.4	733.1	1602.6	3192.8	5021.2	5054.7	4610.6	3512.8	1930.1	796.3
77.5°	157.5	157.5	243.1	601.6	1592.7	3169.2	3166.8	2830.6	1778.7	653.7	186.1
80°	81.9	85.6	126.5	245.6	689.7	1651.0	1713.0	1385.5	676.0	275.4	54.6
82.5°	33.5	37.2	69.5	126.5	331.2	579.3	633.8	543.3	294.0	192.3	24.8
85°	9.9	11.2	33.5	70.7	130.2	145.1	161.3	182.3	184.8	148.8	11.2
87.5°	1.2	1.2	13.6	23.6	28.5	31.0	36.0	36.0	94.3	104.2	6.2
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°	846.0	846.0	846.0	846.0	846.0	846.0	846.0	846.0	846.0	846.0	846.0
2.5°	852.2	846.0	836.0	813.7	808.7	792.6	791.4	776.5	781.5	771.5	767.8
5°	846.0	832.3	805.0	787.7	770.3	759.1	751.7	745.5	744.2	739.3	736.8
7.5°	857.1	838.5	796.3	769.1	739.3	729.4	713.2	712.0	703.3	694.6	694.6
10°	894.3	860.8	814.9	769.1	730.6	698.3	661.1	633.8	623.9	601.6	604.1
12.5°	924.1	894.3	827.4	780.2	721.9	648.7	566.9	503.6	473.8	445.3	456.5
15°	966.3	922.9	850.9	782.7	688.4	561.9	427.9	357.2	329.9	323.7	322.5
17.5°	1012.2	966.3	880.7	776.5	620.2	434.1	315.1	274.1	279.1	286.5	285.3
20°	1063.0	1007.2	903.0	755.4	512.3	315.1	258.0	256.8	264.2	275.4	277.9
22.5°	1116.4	1068.0	930.3	692.1	382.0	253.0	248.1	248.1	253.0	266.7	264.2
25°	1175.9	1111.4	943.9	594.2	274.1	233.2	235.7	240.6	243.1	254.3	255.5
27.5°	1221.8	1159.8	947.7	476.3	223.3	215.8	222.0	228.2	232.0	240.6	244.4
30°	1264.0	1220.6	927.8	354.8	204.7	200.9	203.4	212.1	219.6	227.0	227.0
32.5°	1317.3	1255.3	881.9	251.8	193.5	187.3	186.1	189.8	198.5	207.1	207.1
35°	1371.9	1313.6	808.7	202.2	183.6	174.9	169.9	166.2	169.9	176.1	181.1
37.5°	1451.3	1401.7	717.0	186.1	176.1	163.7	153.8	145.1	138.9	137.7	141.4
40°	1564.2	1500.9	599.1	174.9	167.5	152.6	137.7	122.8	109.2	100.5	101.7
42.5°	1735.3	1647.3	471.4	168.7	161.3	140.2	119.1	98.0	80.6	71.9	71.9
45°	1979.7	1840.8	346.1	162.5	153.8	125.3	98.0	73.2	55.8	50.9	52.1
47.5°	2348.1	2074.0	248.1	152.6	143.9	109.2	76.9	52.1	40.9	38.5	39.7
50°	2829.4	2350.6	193.5	141.4	131.5	91.8	57.1	38.5	32.3	31.0	32.3
52.5°	3334.2	2629.7	169.9	131.5	112.9	73.2	42.2	31.0	27.3	26.0	27.3
55°	3765.9	2809.5	147.6	116.6	90.5	54.6	33.5	27.3	23.6	19.8	19.8
57.5°	4202.5	2900.1	116.6	96.8	67.0	40.9	28.5	23.6	19.8	16.1	14.9
60°	4557.2	2964.6	83.1	71.9	47.1	32.3	24.8	21.1	16.1	12.4	11.2
62.5°	4790.4	2779.7	60.8	54.6	34.7	27.3	21.1	17.4	12.4	8.7	8.7
65°	4675.1	2524.2	47.1	38.5	26.0	21.1	17.4	12.4	8.7	5.0	3.7
67.5°	4195.0	2056.6	38.5	28.5	19.8	16.1	13.6	9.9	5.0	1.2	1.2
70°	3129.5	1507.1	31.0	21.1	16.1	12.4	9.9	6.2	2.5	1.2	0.0
72.5°	1711.8	824.9	24.8	17.4	12.4	9.9	7.4	5.0	2.5	0.0	0.0
75°	565.6	219.6	18.6	12.4	7.4	6.2	5.0	3.7	1.2	0.0	0.0
77.5°	136.4	57.1	14.9	11.2	6.2	3.7	2.5	1.2	1.2	0.0	0.0
80°	42.2	23.6	11.2	7.4	5.0	3.7	1.2	0.0	0.0	0.0	0.0
82.5°	17.4	11.2	5.0	5.0	3.7	1.2	0.0	0.0	0.0	0.0	0.0
85°	8.7	6.2	3.7	2.5	2.5	1.2	0.0	0.0	0.0	0.0	0.0
87.5°	6.2	2.5	1.2	1.2	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)