

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: P482405

Luminaire Tested: **IFLD-S-SA2D-735-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482405
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-735-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

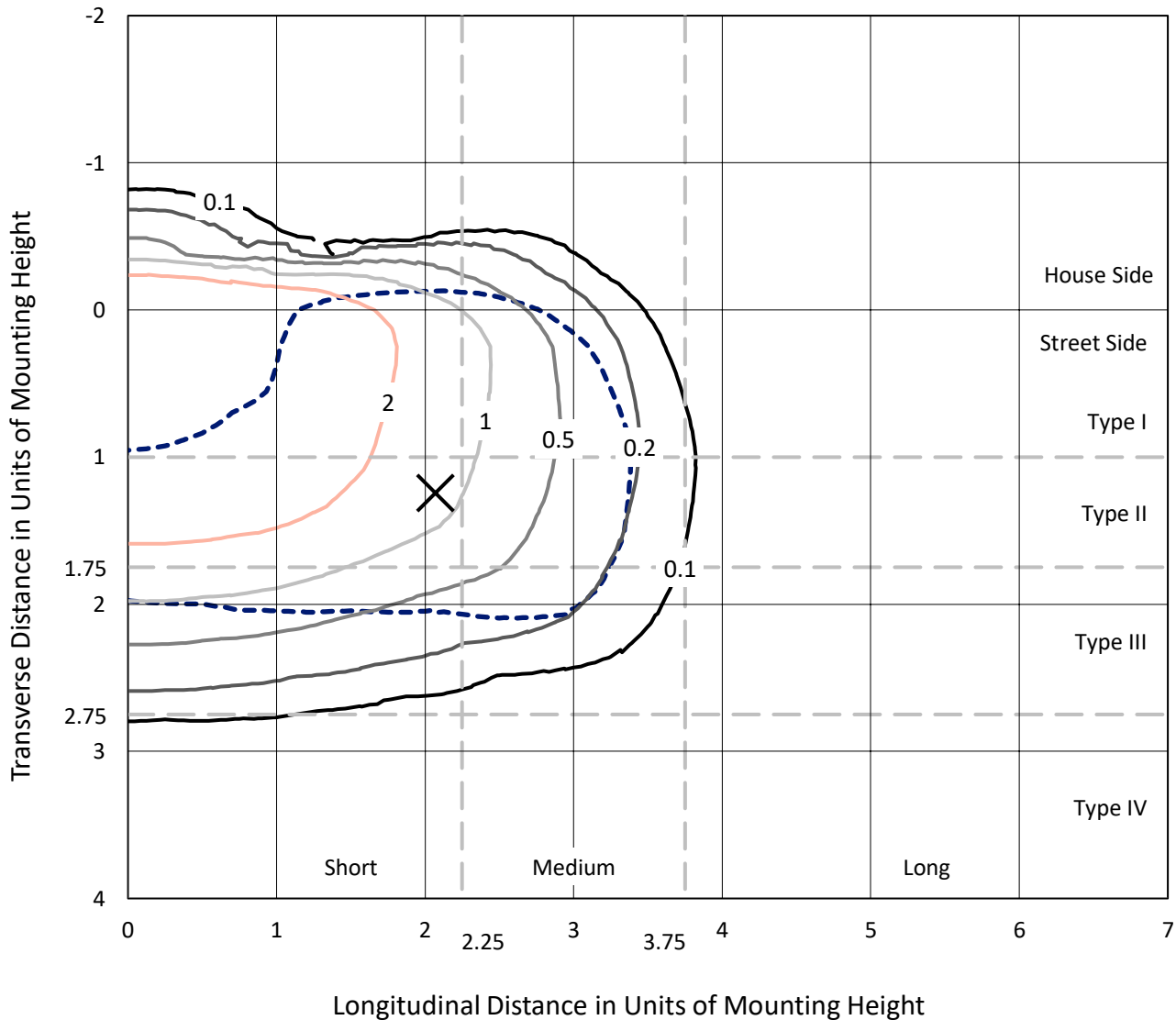
Lumens per Lamp: N/A
Luminaire Lumens: 11445.9 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

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

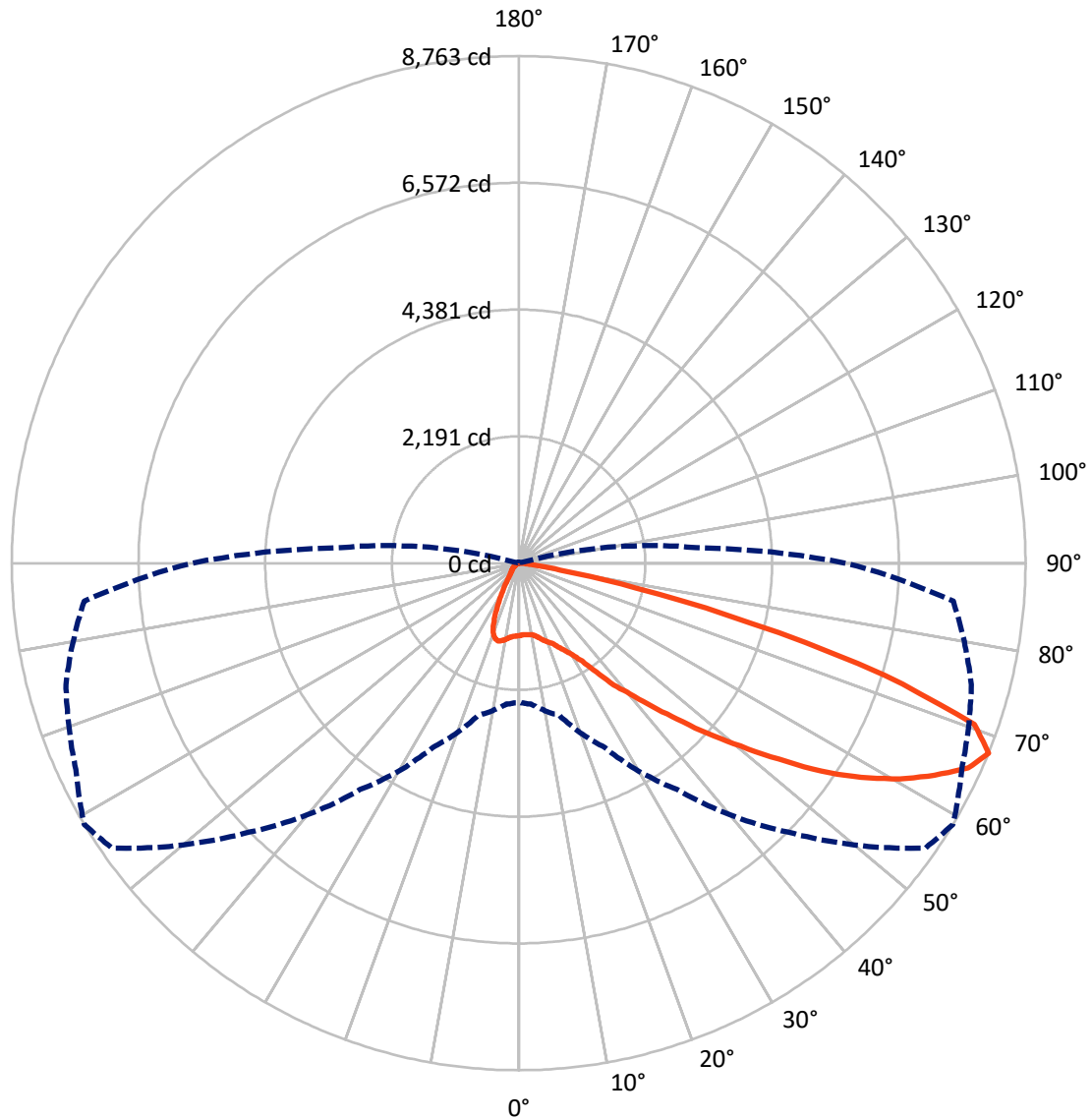
✕ Max cd
 - - - 1/2 Max cd



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	1344.5	0.0	1344.5
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	10101.4	0.0	10101.4
	% Fixture	88.3	0.0	88.3
Total	Lumens	11445.9	0.0	11445.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.3	1.0
10°-20°	344.5	3.0
20°-30°	602.0	5.3
30°-40°	1060.0	9.3
40°-50°	1873.7	16.4
50°-60°	2966.7	25.9
60°-70°	3290.9	28.8
70°-80°	1141.9	10.0
80°-90°	47.0	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°	11445.9	100.0
0°-180°	11445.9	100.0

Coefficient of Utilization

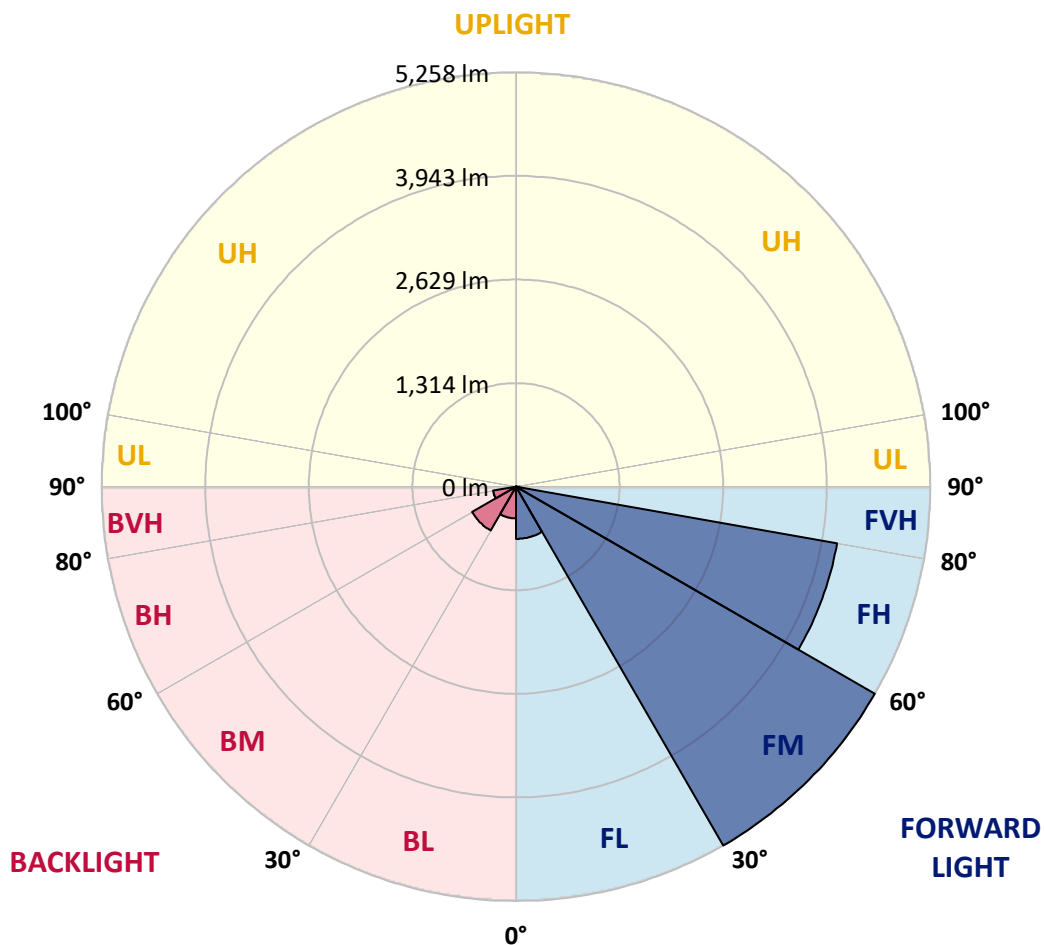


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	662.8	5.8			
FM (30°-60°)	5257.5	45.9			
FH (60°-80°)	4137.1	36.1			G2/5000
FVH (80°-90°)	44.0	0.4			G1/100
BL (0°-30°)	403.0	3.5	B1/500		
BM (30°-60°)	642.8	5.6	B1/1000		
BH (60°-80°)	295.7	2.6	B1/500		G1/500
BVH (80°-90°)	3.0	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°	1255.4	1255.4	1255.4	1255.4	1255.4	1255.4	1255.4	1255.4	1255.4	1255.4	1255.4
2.5°	1219.0	1201.7	1217.5	1219.0	1220.6	1234.9	1250.7	1239.6	1238.0	1250.7	1261.7
5°	1170.0	1162.1	1181.1	1190.6	1206.4	1219.0	1244.3	1245.9	1247.5	1261.7	1280.7
7.5°	1149.5	1130.5	1152.6	1163.7	1174.8	1204.8	1234.9	1250.7	1272.8	1290.2	1309.2
10°	1108.4	1122.6	1128.9	1147.9	1179.5	1214.3	1250.7	1258.6	1307.6	1321.8	1367.7
12.5°	1122.6	1132.1	1144.7	1149.5	1184.3	1236.4	1285.5	1288.6	1339.2	1400.9	1424.6
15°	1159.0	1152.6	1157.4	1163.7	1204.8	1247.5	1326.6	1340.8	1388.2	1457.8	1516.3
17.5°	1236.4	1225.4	1217.5	1215.9	1225.4	1264.9	1358.2	1400.9	1445.1	1540.0	1570.1
20°	1430.9	1421.4	1389.8	1307.6	1279.1	1294.9	1396.1	1456.2	1517.9	1623.8	1672.8
22.5°	1726.6	1736.1	1661.8	1546.3	1427.8	1366.1	1456.2	1508.4	1606.4	1740.8	1785.1
25°	2076.0	2057.0	1966.9	1832.5	1645.9	1500.5	1552.7	1611.2	1731.3	1842.0	1859.4
27.5°	2349.5	2327.4	2257.8	2095.0	1933.7	1698.1	1679.2	1715.5	1857.8	1957.4	1938.5
30°	2619.9	2627.8	2580.4	2387.5	2188.3	1940.0	1819.9	1835.7	1944.8	2072.9	2030.2
32.5°	2964.6	2945.6	2918.8	2749.6	2514.0	2248.4	2042.8	2017.5	2064.9	2234.1	2183.5
35°	3285.6	3274.5	3238.1	3067.4	2861.8	2572.5	2371.7	2314.8	2303.7	2491.8	2403.3
37.5°	3565.4	3546.5	3491.1	3382.0	3182.8	2939.3	2719.5	2668.9	2667.4	2797.0	2626.2
40°	3801.0	3815.2	3808.9	3688.8	3579.7	3385.2	3048.4	2967.8	2961.4	3031.0	2931.4
42.5°	4106.2	4139.4	4122.0	4098.3	3967.0	3891.1	3510.1	3386.8	3331.4	3473.7	3383.6
45°	4567.9	4580.5	4591.6	4533.1	4401.8	4417.7	3987.6	3840.5	3826.3	4038.2	3835.8
47.5°	4999.5	4966.3	5043.8	5046.9	5040.6	4967.9	4503.0	4393.9	4412.9	4574.2	4365.5
50°	5107.0	5192.4	5405.9	5445.4	5548.2	5614.6	5075.4	4966.3	4997.9	5181.3	4942.6
52.5°	5190.8	5320.5	5533.9	5823.3	6100.0	6258.1	5715.8	5627.2	5625.6	5737.9	5409.0
55°	5337.9	5416.9	5601.9	6000.4	6526.9	6786.2	6487.3	6345.0	6217.0	6296.0	5892.8
57.5°	5323.6	5353.7	5641.4	6133.2	6865.2	7336.4	7121.4	6985.4	6821.0	6775.1	6449.4
60°	5073.8	5145.0	5467.5	6043.1	7073.9	7764.9	7712.7	7573.6	7290.6	7183.0	6876.3
62.5°	4578.9	4673.8	4926.8	5726.8	6770.4	7787.0	8120.6	8068.5	7752.2	7559.3	7432.9
65°	3710.9	3755.2	4046.1	4923.6	6084.2	7447.1	8602.9	8538.1	8247.1	7959.4	7719.0
67.5°	2403.3	2446.0	2725.9	3514.8	4778.2	6569.6	8583.9	8762.6	8447.9	8101.7	7540.4
70°	1135.2	1124.2	1385.1	1952.7	3061.1	5016.9	8003.6	8356.2	8089.0	7344.3	6262.8
72.5°	346.3	376.3	575.5	864.9	1571.6	3129.0	6273.9	6604.4	6520.6	5867.5	4180.5
75°	153.4	166.0	226.1	354.2	637.2	1283.9	3875.3	4169.4	4133.1	3461.1	1908.4
77.5°	98.0	107.5	142.3	202.4	289.3	407.9	1785.1	2071.3	2008.0	1215.9	499.6
80°	69.6	74.3	101.2	139.1	181.8	167.6	615.1	730.5	700.4	330.5	134.4
82.5°	37.9	41.1	74.3	102.8	121.7	85.4	172.3	215.0	224.5	147.0	64.8
85°	14.2	17.4	45.9	72.7	63.2	39.5	50.6	61.7	80.6	80.6	30.0
87.5°	0.0	1.6	19.0	31.6	15.8	11.1	14.2	17.4	22.1	37.9	11.1
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°	1255.4	1255.4	1255.4	1255.4	1255.4	1255.4	1255.4	1255.4	1255.4	1255.4	1255.4
2.5°	1269.6	1258.6	1263.3	1271.2	1253.8	1263.3	1244.3	1258.6	1263.3	1244.3	1253.8
5°	1285.5	1296.5	1290.2	1277.5	1266.5	1269.6	1264.9	1253.8	1263.3	1266.5	1260.2
7.5°	1331.3	1318.7	1321.8	1307.6	1285.5	1283.9	1253.8	1245.9	1249.1	1252.2	1241.2
10°	1374.0	1381.9	1366.1	1355.0	1318.7	1294.9	1253.8	1209.6	1204.8	1185.8	1201.7
12.5°	1449.9	1430.9	1424.6	1388.2	1351.9	1272.8	1184.3	1116.3	1059.4	1038.8	1018.2
15°	1513.1	1510.0	1498.9	1443.6	1359.8	1215.9	1048.3	890.2	781.1	713.1	703.6
17.5°	1600.1	1585.9	1565.3	1478.4	1301.3	1067.3	781.1	581.9	472.8	430.1	414.3
20°	1666.5	1655.4	1627.0	1470.4	1195.3	795.3	483.8	370.0	343.1	335.2	336.8
22.5°	1763.0	1728.2	1674.4	1430.9	1002.4	529.7	347.8	330.5	325.7	319.4	321.0
25°	1846.8	1815.1	1702.9	1362.9	714.7	351.0	322.5	313.1	305.2	297.3	295.7
27.5°	1921.1	1881.5	1732.9	1223.8	447.5	302.0	298.8	287.8	272.0	259.3	254.6
30°	1993.8	1947.9	1740.8	962.9	302.0	273.5	265.6	248.2	227.7	210.3	207.1
32.5°	2115.5	2060.2	1729.7	687.8	260.9	243.5	226.1	205.5	175.5	161.3	158.1
35°	2305.3	2221.5	1715.5	404.8	234.0	215.0	188.2	161.3	139.1	124.9	121.7
37.5°	2523.5	2378.0	1674.4	270.4	215.0	189.7	155.0	128.1	109.1	98.0	94.9
40°	2847.6	2607.3	1516.3	221.4	191.3	161.3	124.9	101.2	87.0	79.1	75.9
42.5°	3204.9	2869.7	1272.8	199.2	169.2	137.6	99.6	82.2	71.2	63.2	63.2
45°	3633.4	3143.3	981.9	181.8	150.2	113.8	82.2	66.4	56.9	50.6	47.4
47.5°	4110.9	3391.5	662.5	164.4	126.5	93.3	68.0	50.6	41.1	36.4	36.4
50°	4537.8	3611.3	422.2	143.9	110.7	77.5	55.3	41.1	33.2	26.9	25.3
52.5°	4925.2	3778.9	290.9	126.5	94.9	63.2	45.9	33.2	25.3	20.6	20.6
55°	5322.1	3864.3	215.0	109.1	82.2	53.8	37.9	30.0	22.1	17.4	15.8
57.5°	5647.8	3900.6	164.4	94.9	69.6	42.7	33.2	25.3	19.0	14.2	12.6
60°	5926.0	3883.2	128.1	79.1	55.3	36.4	28.5	20.6	15.8	11.1	9.5
62.5°	6088.9	3778.9	101.2	68.0	44.3	31.6	23.7	17.4	11.1	7.9	6.3
65°	6092.1	3557.5	79.1	50.6	33.2	26.9	20.6	14.2	7.9	3.2	1.6
67.5°	5655.7	3078.4	63.2	39.5	26.9	20.6	15.8	11.1	3.2	0.0	0.0
70°	4424.0	2329.0	52.2	31.6	22.1	17.4	11.1	6.3	1.6	0.0	0.0
72.5°	2819.1	1394.6	42.7	25.3	19.0	12.6	7.9	4.7	0.0	0.0	0.0
75°	1179.5	430.1	33.2	22.1	14.2	9.5	6.3	1.6	0.0	0.0	0.0
77.5°	303.6	136.0	26.9	19.0	14.2	7.9	4.7	1.6	0.0	0.0	0.0
80°	90.1	50.6	22.1	15.8	11.1	6.3	3.2	1.6	0.0	0.0	0.0
82.5°	41.1	30.0	19.0	14.2	9.5	6.3	3.2	0.0	0.0	0.0	0.0
85°	15.8	9.5	9.5	7.9	7.9	4.7	1.6	0.0	0.0	0.0	0.0
87.5°	6.3	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)