

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: P482403

Luminaire Tested: **IFLD-S-SA2B-735-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482403
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-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

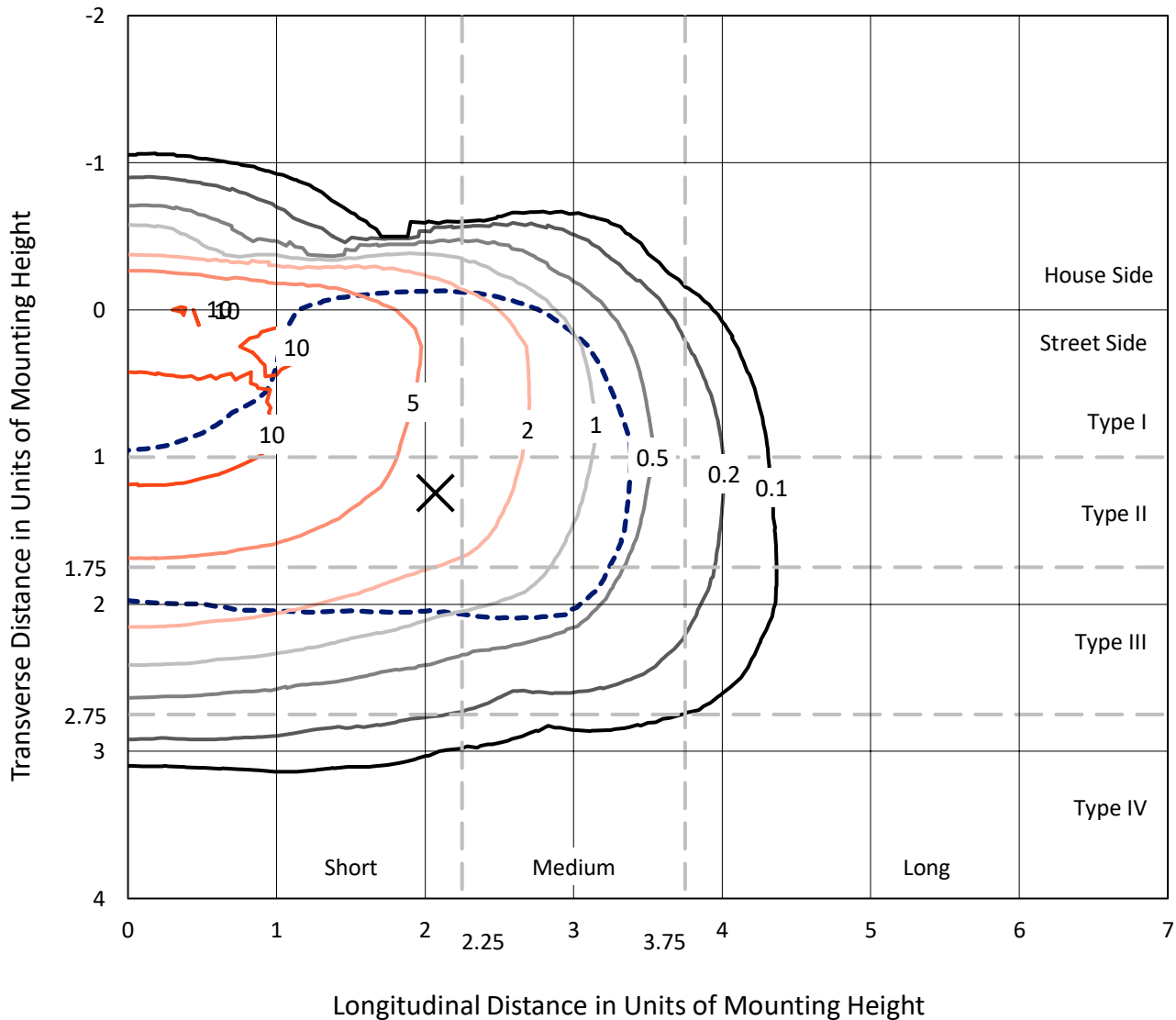
Lumens per Lamp: N/A
Luminaire Lumens: 8356.2 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4
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

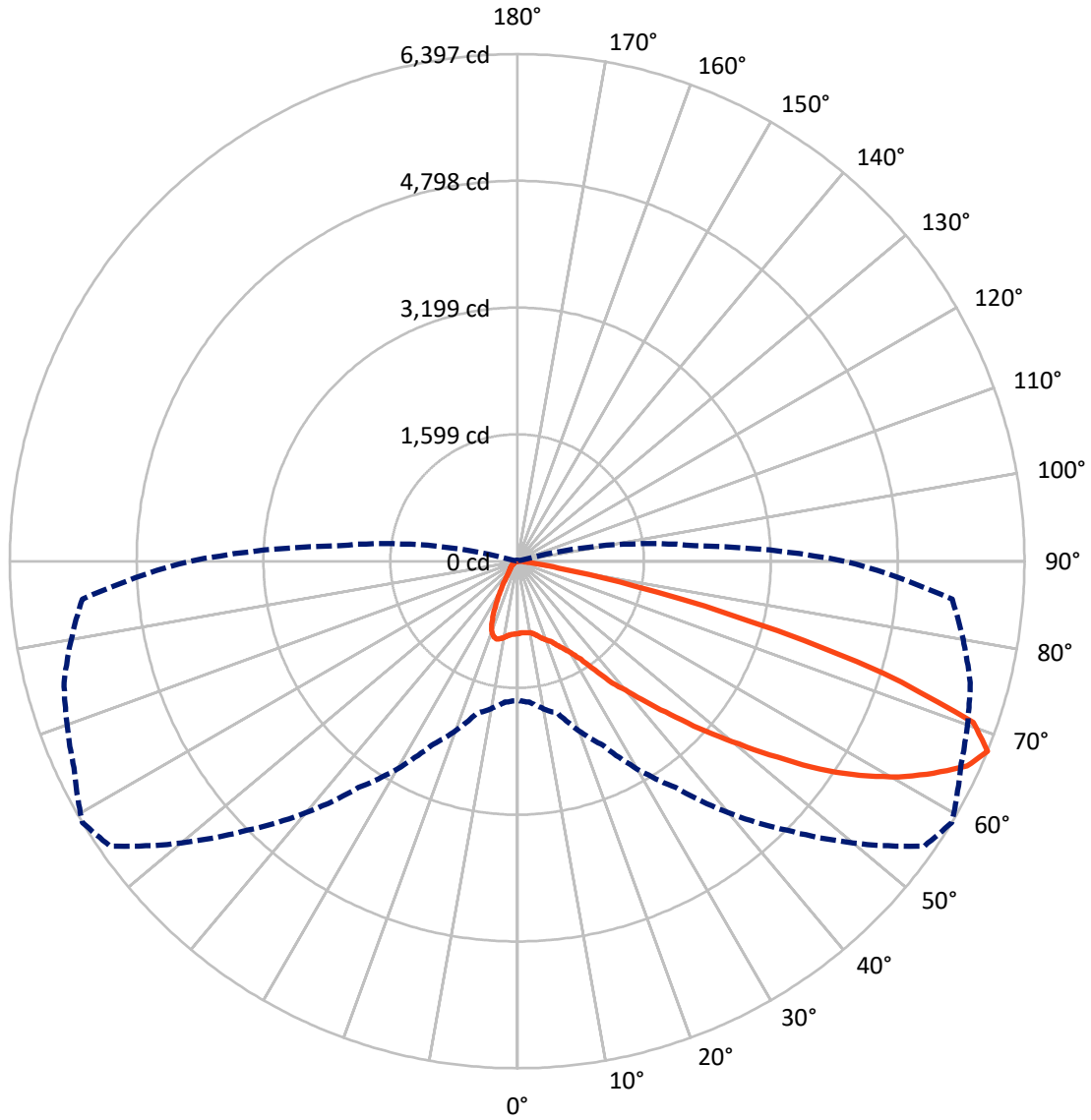
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.1 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	981.6	0.0	981.6
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	7374.6	0.0	7374.6
	% Fixture	88.3	0.0	88.3
Total	Lumens	8356.2	0.0	8356.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	1.0
10°-20°	251.5	3.0
20°-30°	439.5	5.3
30°-40°	773.8	9.3
40°-50°	1367.9	16.4
50°-60°	2165.9	25.9
60°-70°	2402.5	28.8
70°-80°	833.6	10.0
80°-90°	34.3	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°	8356.2	100.0
0°-180°	8356.2	100.0

Coefficient of Utilization

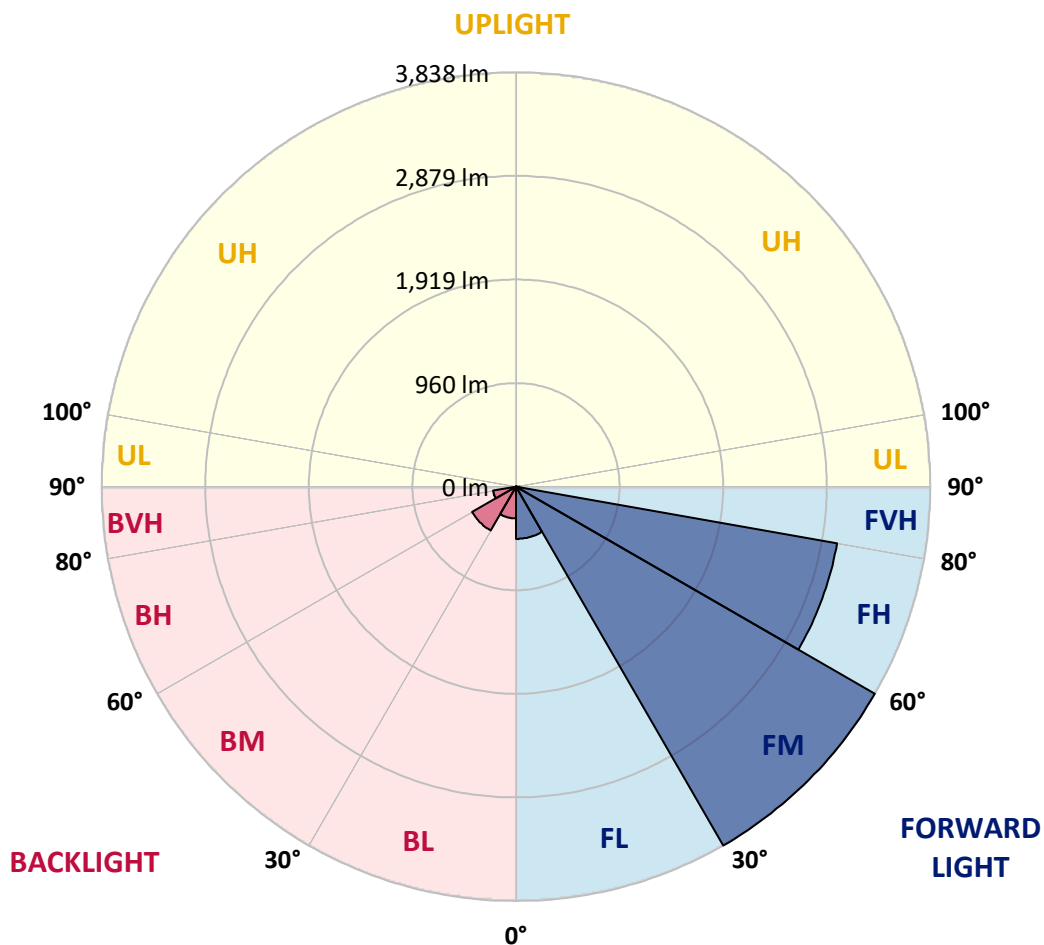


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	483.9	5.8			
FM (30°-60°)	3838.3	45.9			
FH (60°-80°)	3020.3	36.1			G2/5000
FVH (80°-90°)	32.1	0.4			G1/100
BL (0°-30°)	294.2	3.5	B1/500		
BM (30°-60°)	469.3	5.6	B1/1000		
BH (60°-80°)	215.9	2.6	B1/500		G1/500
BVH (80°-90°)	2.2	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	916.5	916.5	916.5	916.5	916.5	916.5	916.5	916.5	916.5	916.5	916.5
2.5°	890.0	877.3	888.8	890.0	891.1	901.5	913.1	905.0	903.8	913.1	921.1
5°	854.2	848.4	862.3	869.2	880.7	890.0	908.4	909.6	910.8	921.1	935.0
7.5°	839.2	825.3	841.5	849.6	857.7	879.6	901.5	913.1	929.2	941.9	955.8
10°	809.2	819.6	824.2	838.0	861.1	886.5	913.1	918.8	954.6	965.0	998.5
12.5°	819.6	826.5	835.7	839.2	864.6	902.7	938.5	940.8	977.7	1022.7	1040.0
15°	846.1	841.5	845.0	849.6	879.6	910.8	968.5	978.9	1013.5	1064.3	1107.0
17.5°	902.7	894.6	888.8	887.7	894.6	923.5	991.6	1022.7	1055.0	1124.3	1146.2
20°	1044.7	1037.7	1014.6	954.6	933.8	945.4	1019.3	1063.1	1108.1	1185.5	1221.3
22.5°	1260.5	1267.4	1213.2	1128.9	1042.3	997.3	1063.1	1101.2	1172.8	1270.9	1303.2
25°	1515.6	1501.8	1436.0	1337.8	1201.6	1095.4	1133.5	1176.2	1264.0	1344.8	1357.5
27.5°	1715.3	1699.1	1648.4	1529.5	1411.7	1239.7	1225.9	1252.4	1356.3	1429.0	1415.2
30°	1912.7	1918.5	1883.8	1743.0	1597.6	1416.3	1328.6	1340.2	1419.8	1513.3	1482.1
32.5°	2164.3	2150.5	2130.9	2007.3	1835.4	1641.4	1491.4	1472.9	1507.5	1631.0	1594.1
35°	2398.7	2390.6	2364.0	2239.4	2089.3	1878.1	1731.5	1689.9	1681.8	1819.2	1754.6
37.5°	2603.0	2589.1	2548.7	2469.1	2323.6	2145.9	1985.4	1948.5	1947.3	2042.0	1917.3
40°	2775.0	2785.4	2780.7	2693.0	2613.4	2471.4	2225.5	2166.6	2162.0	2212.8	2140.1
42.5°	2997.7	3022.0	3009.3	2992.0	2896.2	2840.8	2562.6	2472.5	2432.1	2536.0	2470.2
45°	3334.8	3344.0	3352.1	3309.4	3213.6	3225.1	2911.2	2803.8	2793.4	2948.1	2800.4
47.5°	3649.9	3625.7	3682.3	3684.6	3679.9	3626.9	3287.5	3207.8	3221.7	3339.4	3187.1
50°	3728.4	3790.8	3946.6	3975.5	4050.5	4099.0	3705.3	3625.7	3648.8	3782.7	3608.4
52.5°	3789.6	3884.3	4040.1	4251.3	4453.3	4568.8	4172.8	4108.2	4107.0	4189.0	3948.9
55°	3897.0	3954.7	4089.7	4380.6	4765.0	4954.3	4736.1	4632.3	4538.8	4596.5	4302.1
57.5°	3886.6	3908.5	4118.6	4477.6	5012.0	5356.0	5199.0	5099.8	4979.7	4946.2	4708.4
60°	3704.2	3756.1	3991.6	4411.8	5164.4	5668.8	5630.7	5529.2	5322.5	5244.0	5020.1
62.5°	3342.9	3412.1	3596.8	4180.9	4942.8	5685.0	5928.5	5890.5	5659.6	5518.8	5426.4
65°	2709.2	2741.5	2953.9	3594.5	4441.8	5436.8	6280.6	6233.3	6020.9	5810.8	5635.4
67.5°	1754.6	1785.7	1990.0	2566.0	3488.3	4796.2	6266.8	6397.2	6167.5	5914.7	5504.9
70°	828.8	820.7	1011.2	1425.6	2234.7	3662.6	5843.1	6100.5	5905.5	5361.8	4572.2
72.5°	252.8	274.7	420.2	631.4	1147.4	2284.4	4580.3	4821.6	4760.4	4283.7	3052.0
75°	112.0	121.2	165.1	258.6	465.2	937.3	2829.2	3043.9	3017.4	2526.8	1393.3
77.5°	71.6	78.5	103.9	147.8	211.2	297.8	1303.2	1512.1	1466.0	887.7	364.8
80°	50.8	54.3	73.9	101.6	132.7	122.4	449.0	533.3	511.4	241.3	98.1
82.5°	27.7	30.0	54.3	75.0	88.9	62.3	125.8	157.0	163.9	107.4	47.3
85°	10.4	12.7	33.5	53.1	46.2	28.9	36.9	45.0	58.9	58.9	21.9
87.5°	0.0	1.2	13.9	23.1	11.5	8.1	10.4	12.7	16.2	27.7	8.1
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°	916.5	916.5	916.5	916.5	916.5	916.5	916.5	916.5	916.5	916.5	916.5
2.5°	926.9	918.8	922.3	928.1	915.4	922.3	908.4	918.8	922.3	908.4	915.4
5°	938.5	946.5	941.9	932.7	924.6	926.9	923.5	915.4	922.3	924.6	920.0
7.5°	971.9	962.7	965.0	954.6	938.5	937.3	915.4	909.6	911.9	914.2	906.1
10°	1003.1	1008.9	997.3	989.2	962.7	945.4	915.4	883.0	879.6	865.7	877.3
12.5°	1058.5	1044.7	1040.0	1013.5	986.9	929.2	864.6	814.9	773.4	758.4	743.4
15°	1104.7	1102.4	1094.3	1053.9	992.7	887.7	765.3	649.9	570.2	520.6	513.7
17.5°	1168.2	1157.8	1142.8	1079.3	950.0	779.2	570.2	424.8	345.1	314.0	302.4
20°	1216.6	1208.6	1187.8	1073.5	872.7	580.6	353.2	270.1	250.5	244.7	245.9
22.5°	1287.1	1261.7	1222.4	1044.7	731.8	386.7	253.9	241.3	237.8	233.2	234.3
25°	1348.2	1325.2	1243.2	995.0	521.7	256.3	235.5	228.6	222.8	217.0	215.9
27.5°	1402.5	1373.6	1265.1	893.4	326.7	220.5	218.2	210.1	198.5	189.3	185.8
30°	1455.6	1422.1	1270.9	703.0	220.5	199.7	193.9	181.2	166.2	153.5	151.2
32.5°	1544.5	1504.1	1262.8	502.1	190.5	177.8	165.1	150.1	128.1	117.7	115.4
35°	1683.0	1621.8	1252.4	295.5	170.8	157.0	137.4	117.7	101.6	91.2	88.9
37.5°	1842.3	1736.1	1222.4	197.4	157.0	138.5	113.1	93.5	79.6	71.6	69.3
40°	2078.9	1903.5	1107.0	161.6	139.7	117.7	91.2	73.9	63.5	57.7	55.4
42.5°	2339.8	2095.1	929.2	145.4	123.5	100.4	72.7	60.0	51.9	46.2	46.2
45°	2652.6	2294.8	716.8	132.7	109.7	83.1	60.0	48.5	41.6	36.9	34.6
47.5°	3001.2	2476.0	483.7	120.0	92.3	68.1	49.6	36.9	30.0	26.5	26.5
50°	3312.9	2636.4	308.2	105.0	80.8	56.6	40.4	30.0	24.2	19.6	18.5
52.5°	3595.7	2758.8	212.4	92.3	69.3	46.2	33.5	24.2	18.5	15.0	15.0
55°	3885.4	2821.1	157.0	79.6	60.0	39.2	27.7	21.9	16.2	12.7	11.5
57.5°	4123.2	2847.7	120.0	69.3	50.8	31.2	24.2	18.5	13.9	10.4	9.2
60°	4326.4	2835.0	93.5	57.7	40.4	26.5	20.8	15.0	11.5	8.1	6.9
62.5°	4445.3	2758.8	73.9	49.6	32.3	23.1	17.3	12.7	8.1	5.8	4.6
65°	4447.6	2597.2	57.7	36.9	24.2	19.6	15.0	10.4	5.8	2.3	1.2
67.5°	4129.0	2247.4	46.2	28.9	19.6	15.0	11.5	8.1	2.3	0.0	0.0
70°	3229.8	1700.3	38.1	23.1	16.2	12.7	8.1	4.6	1.2	0.0	0.0
72.5°	2058.1	1018.1	31.2	18.5	13.9	9.2	5.8	3.5	0.0	0.0	0.0
75°	861.1	314.0	24.2	16.2	10.4	6.9	4.6	1.2	0.0	0.0	0.0
77.5°	221.6	99.3	19.6	13.9	10.4	5.8	3.5	1.2	0.0	0.0	0.0
80°	65.8	36.9	16.2	11.5	8.1	4.6	2.3	1.2	0.0	0.0	0.0
82.5°	30.0	21.9	13.9	10.4	6.9	4.6	2.3	0.0	0.0	0.0	0.0
85°	11.5	6.9	6.9	5.8	5.8	3.5	1.2	0.0	0.0	0.0	0.0
87.5°	4.6	2.3	2.3	2.3	1.2	1.2	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)