

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: P481779

Luminaire Tested: **IFLD-S-SA2B-827-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481779
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-827-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

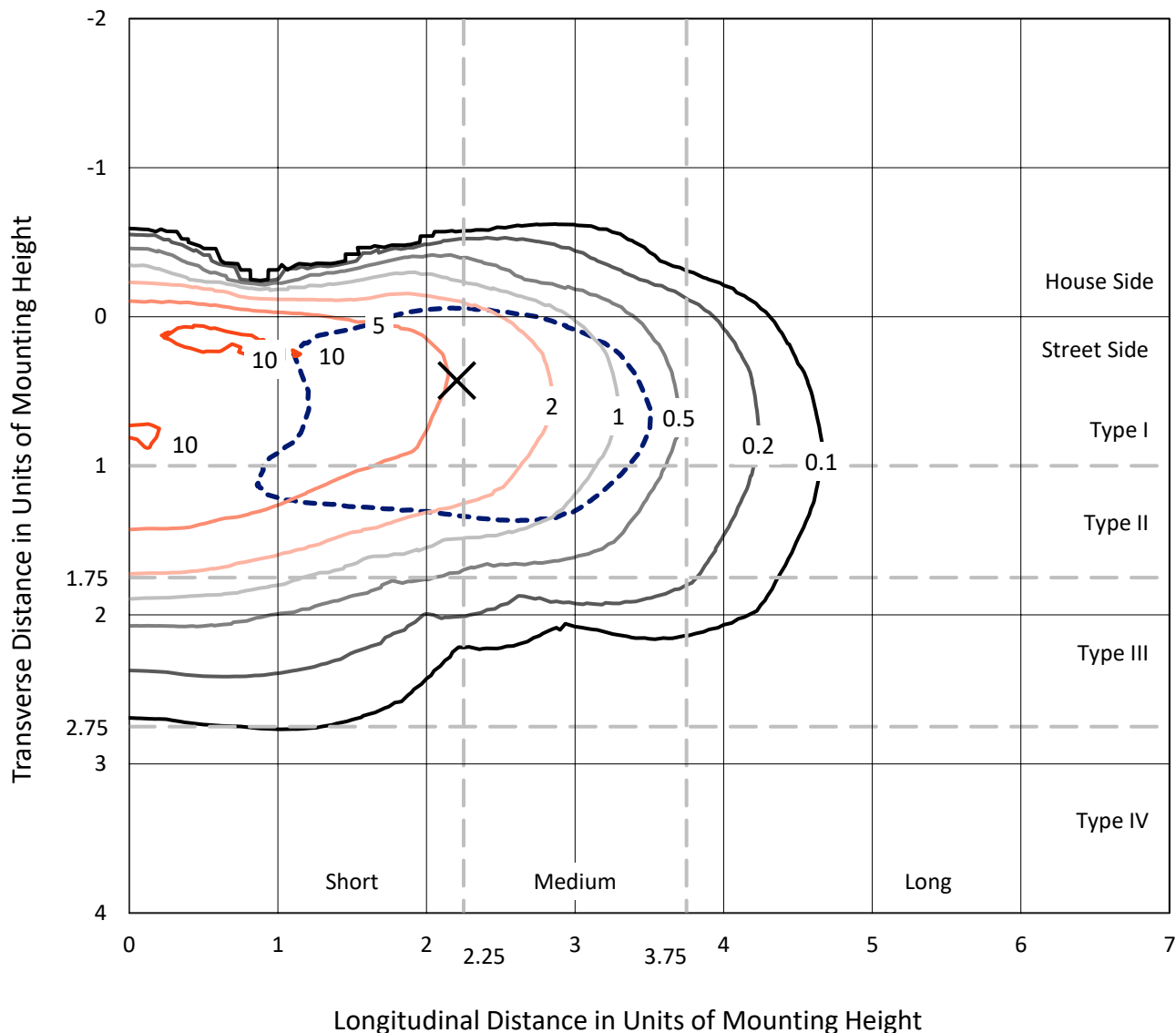
Lumens per Lamp: N/A
Luminaire Lumens: 6044.3 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

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

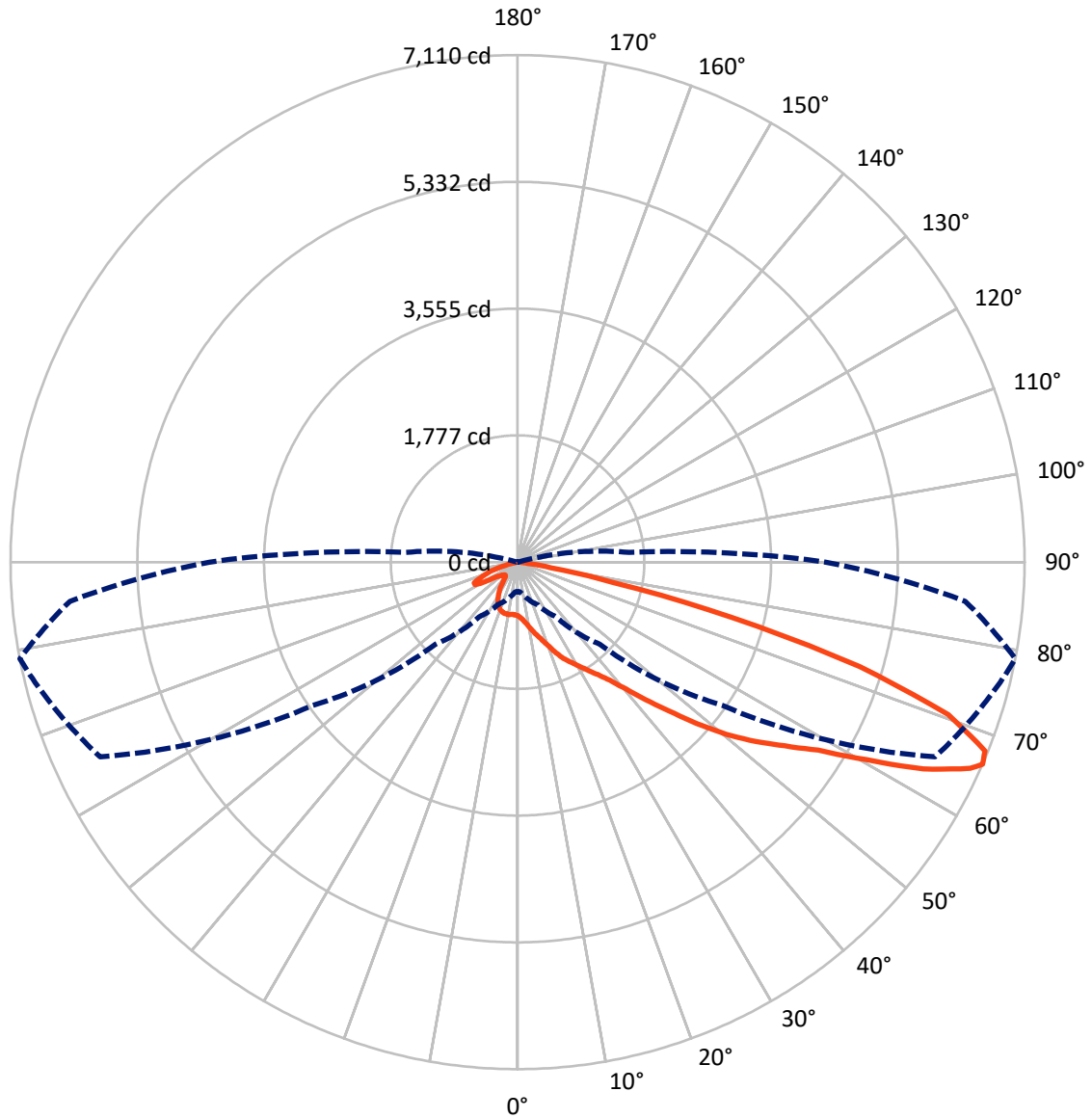
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	453.8	0.0	453.8
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	5590.4	0.0	5590.4
	% Fixture	92.5	0.0	92.5
Total	Lumens	6044.3	0.0	6044.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	1.2
10°-20°	195.7	3.2
20°-30°	325.1	5.4
30°-40°	558.5	9.2
40°-50°	1011.7	16.7
50°-60°	1599.3	26.5
60°-70°	1627.4	26.9
70°-80°	620.6	10.3
80°-90°	34.8	0.6
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°	6044.3	100.0
0°-180°	6044.3	100.0

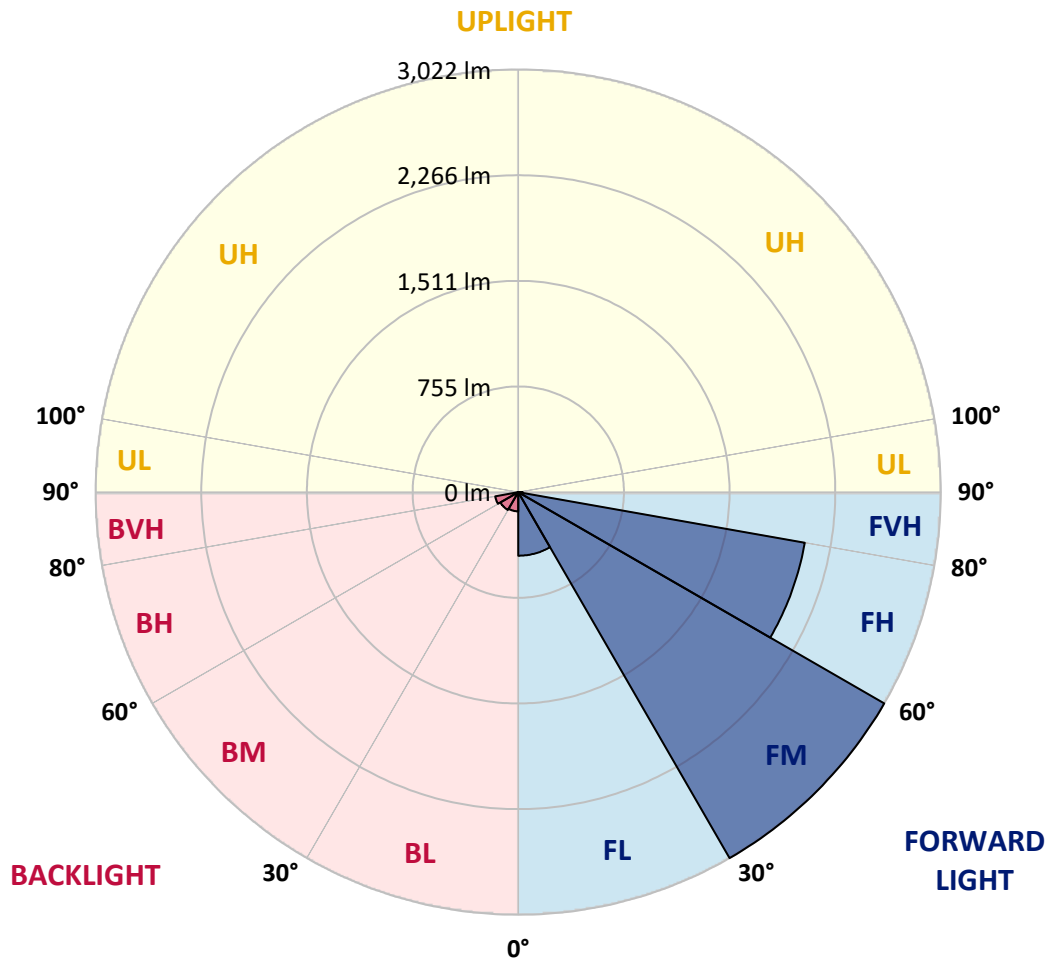


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	454.7	7.5			
FM (30°-60°)	3022.0	50.0			
FH (60°-80°)	2080.7	34.4			G2/5000
FVH (80°-90°)	33.0	0.5			G1/100
BL (0°-30°)	137.3	2.3	B1/500		
BM (30°-60°)	147.5	2.4	B0/220		
BH (60°-80°)	167.3	2.8	B1/500		G1/500
BVH (80°-90°)	1.8	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	752.0	752.0	752.0	752.0	752.0	752.0	752.0	752.0	752.0	752.0	752.0
2.5°	851.7	850.8	847.0	840.5	832.1	829.3	817.2	800.4	791.1	780.9	776.2
5°	910.4	905.7	916.9	912.3	914.1	891.8	876.8	864.7	829.3	815.3	793.0
7.5°	923.4	928.1	927.2	934.6	942.1	950.5	940.2	922.5	887.1	866.6	842.4
10°	923.4	921.6	929.0	939.3	960.7	979.3	1007.3	984.0	957.0	932.8	889.0
12.5°	906.7	903.9	911.3	932.8	971.0	1009.2	1039.9	1062.3	1024.1	1004.5	947.7
15°	855.4	852.6	883.4	921.6	971.9	1034.3	1098.6	1135.0	1108.9	1078.1	1014.8
17.5°	792.0	795.8	828.4	891.8	971.9	1046.4	1128.4	1207.6	1203.9	1164.8	1098.6
20°	770.6	773.4	806.0	851.7	943.0	1054.8	1175.0	1286.8	1309.2	1262.6	1176.0
22.5°	811.6	808.8	811.6	839.6	923.4	1047.4	1205.8	1377.2	1417.3	1381.0	1277.5
25°	951.4	949.5	926.2	883.4	912.3	1030.6	1221.6	1436.9	1529.1	1495.6	1359.5
27.5°	1156.4	1148.9	1112.6	1023.1	964.4	1040.8	1247.7	1494.6	1627.0	1588.8	1433.1
30°	1376.3	1358.6	1311.1	1199.3	1099.5	1079.0	1262.6	1537.5	1736.0	1687.5	1497.4
32.5°	1528.2	1551.5	1536.6	1422.9	1270.1	1167.6	1286.8	1591.5	1836.6	1804.9	1607.4
35°	1763.0	1790.0	1727.6	1627.0	1473.2	1308.3	1338.1	1635.3	1991.3	1938.2	1709.9
37.5°	2059.3	2079.8	2035.1	1844.1	1681.9	1481.6	1443.4	1726.7	2124.6	2099.4	1841.3
40°	2208.4	2307.2	2243.8	2071.4	1897.2	1723.9	1617.6	1833.8	2356.6	2336.1	2023.0
42.5°	2414.3	2463.7	2431.1	2303.5	2121.8	1982.9	1832.9	2042.6	2638.0	2638.0	2269.0
45°	2632.4	2634.3	2632.4	2528.0	2366.8	2295.1	2123.6	2304.4	2940.8	2974.4	2563.4
47.5°	2811.3	2867.2	2862.6	2800.1	2675.3	2648.2	2414.3	2602.6	3321.0	3379.7	2850.4
50°	2903.6	2966.0	2984.6	3017.2	3011.6	3068.5	2732.1	2948.3	3649.0	3793.4	3219.4
52.5°	2878.4	2883.1	2997.7	3126.3	3331.3	3490.6	3115.1	3340.6	4032.9	4175.5	3504.6
55°	2672.5	2654.8	2890.5	3037.7	3461.7	3748.7	3645.3	3829.8	4332.0	4549.1	3799.0
57.5°	2220.5	2225.2	2443.2	2742.3	3364.8	3851.2	4211.8	4469.0	4751.4	4970.3	4212.8
60°	1532.8	1527.3	1771.4	2117.1	2795.5	3660.2	4538.0	5297.4	5312.3	5622.6	4955.4
62.5°	861.9	863.8	1049.2	1344.6	1955.9	2991.1	4522.1	6177.0	6113.7	6385.8	5799.7
65°	488.3	500.4	628.0	796.7	1171.3	2008.1	3889.4	6527.4	6731.5	6973.7	6312.2
66°	412.8	421.2	530.2	657.9	934.6	1628.8	3500.9	6459.4	6925.3	7109.8	6301.9
67.5°	319.6	330.8	422.1	521.8	685.8	1127.5	2817.8	6121.1	6960.7	7068.8	6123.9
70°	219.0	226.4	296.3	396.0	468.7	576.8	1684.7	5060.7	6315.9	6407.2	5322.6
72.5°	153.8	157.5	207.8	300.0	360.6	329.9	835.8	3600.6	4833.4	5011.3	4140.1
75°	110.9	114.6	142.6	215.3	281.4	216.2	383.0	2299.7	2964.1	3103.9	2493.6
77.5°	80.1	84.8	96.9	138.8	204.1	151.9	188.2	1201.1	1397.7	1373.5	1072.5
80°	48.5	53.1	71.8	89.5	149.1	107.2	103.4	501.3	495.7	470.6	337.3
82.5°	22.4	26.1	38.2	60.6	104.4	74.5	49.4	178.9	156.5	143.5	95.0
85°	6.5	8.4	22.4	45.7	53.1	36.3	29.8	61.5	64.3	55.0	31.7
87.5°	0.0	0.9	10.3	11.2	15.8	12.1	11.2	15.8	29.8	24.2	10.3
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°	752.0	752.0	752.0	752.0	752.0	752.0	752.0	752.0	752.0	752.0	752.0
2.5°	759.4	752.9	737.1	712.8	691.4	680.2	664.4	650.4	643.0	642.0	641.1
5°	778.1	760.4	722.2	678.4	645.8	610.3	586.1	568.4	551.6	535.8	545.1
7.5°	803.2	775.3	712.8	656.0	585.2	539.5	496.7	471.5	456.6	442.6	440.8
10°	842.4	807.0	706.3	603.8	522.8	455.7	411.9	375.5	355.0	330.8	340.1
12.5°	895.5	832.1	682.1	556.3	451.9	381.1	318.7	260.0	227.4	202.2	203.1
15°	948.6	865.7	659.7	498.5	387.6	294.5	203.1	163.1	153.8	148.2	150.0
17.5°	1000.8	892.7	625.3	439.8	314.0	187.3	148.2	139.8	135.1	129.5	129.5
20°	1064.1	910.4	582.4	385.8	216.2	138.8	126.7	121.1	113.7	106.2	107.2
22.5°	1125.6	925.3	533.0	316.8	145.4	120.2	106.2	98.8	92.3	84.8	84.8
25°	1187.1	930.0	468.7	227.4	117.4	96.0	82.9	72.7	66.2	59.6	60.6
27.5°	1229.1	901.1	408.1	145.4	94.1	72.7	57.8	49.4	43.8	37.3	37.3
30°	1253.3	848.0	342.9	102.5	70.8	49.4	34.5	26.1	20.5	15.8	14.9
32.5°	1277.5	805.1	269.3	78.3	46.6	26.1	13.0	4.7	0.0	0.0	0.0
35°	1326.0	756.6	180.8	43.8	15.8	0.9	0.0	0.0	0.0	0.0	0.0
37.5°	1356.7	689.5	82.9	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1434.1	656.0	20.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1559.9	632.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1697.8	623.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1881.3	648.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2075.2	716.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2287.6	780.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2473.1	858.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	2814.1	1040.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	3426.3	1399.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4115.9	1666.1	10.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	4368.4	1659.6	17.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	4323.6	1568.3	17.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4091.6	1393.1	15.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	3513.9	1150.8	15.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2679.0	896.4	14.9	3.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	1616.7	477.1	12.1	4.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	643.9	167.7	9.3	3.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	174.3	50.3	5.6	3.7	2.8	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	45.7	18.6	4.7	3.7	1.9	0.9	0.0	0.0	0.0	0.0	0.0
85°	17.7	7.5	3.7	2.8	2.8	1.9	0.9	0.0	0.0	0.0	0.0
87.5°	5.6	2.8	2.8	1.9	1.9	0.9	0.9	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)