

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: P481780

Luminaire Tested: **IFLD-S-SA2C-827-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481780
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-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

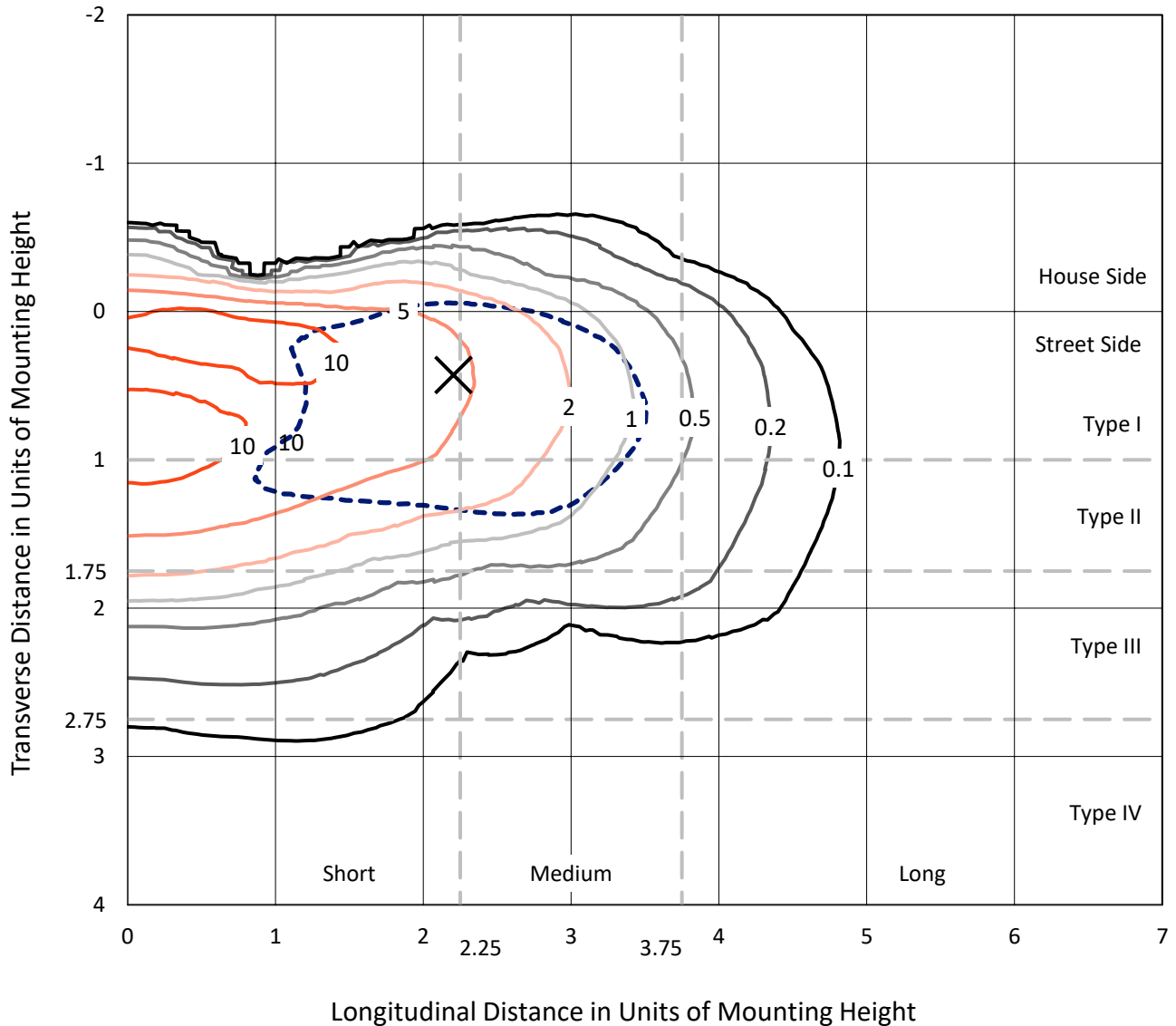
Lumens per Lamp: N/A
Luminaire Lumens: 7524.2 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2
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

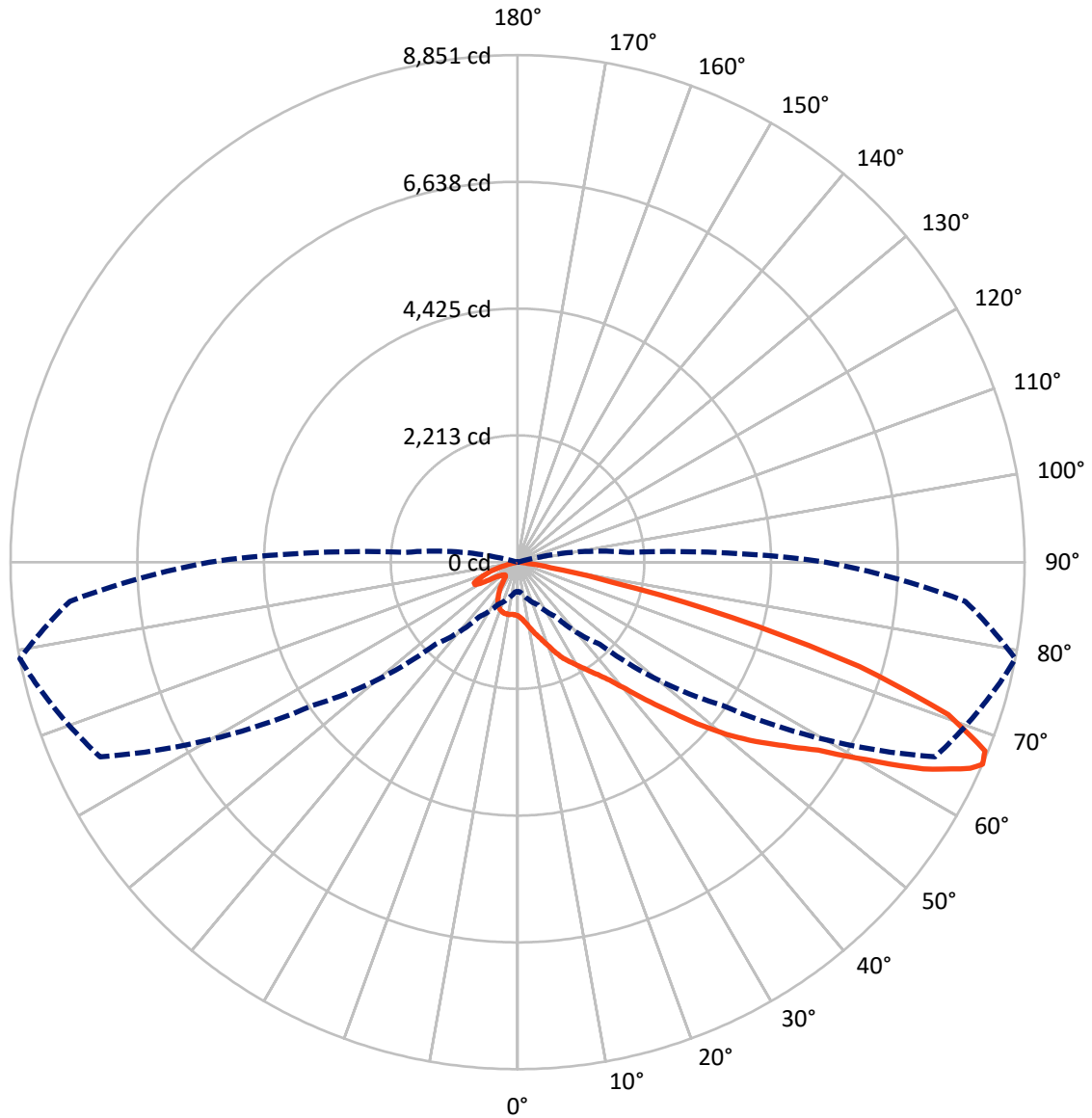
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.1 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	565.0	0.0	565.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	6959.2	0.0	6959.2
	% Fixture	92.5	0.0	92.5
Total	Lumens	7524.2	0.0	7524.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.5	1.2
10°-20°	243.6	3.2
20°-30°	404.8	5.4
30°-40°	695.2	9.2
40°-50°	1259.5	16.7
50°-60°	1990.9	26.5
60°-70°	2025.8	26.9
70°-80°	772.6	10.3
80°-90°	43.3	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°	7524.2	100.0
0°-180°	7524.2	100.0

Coefficient of Utilization

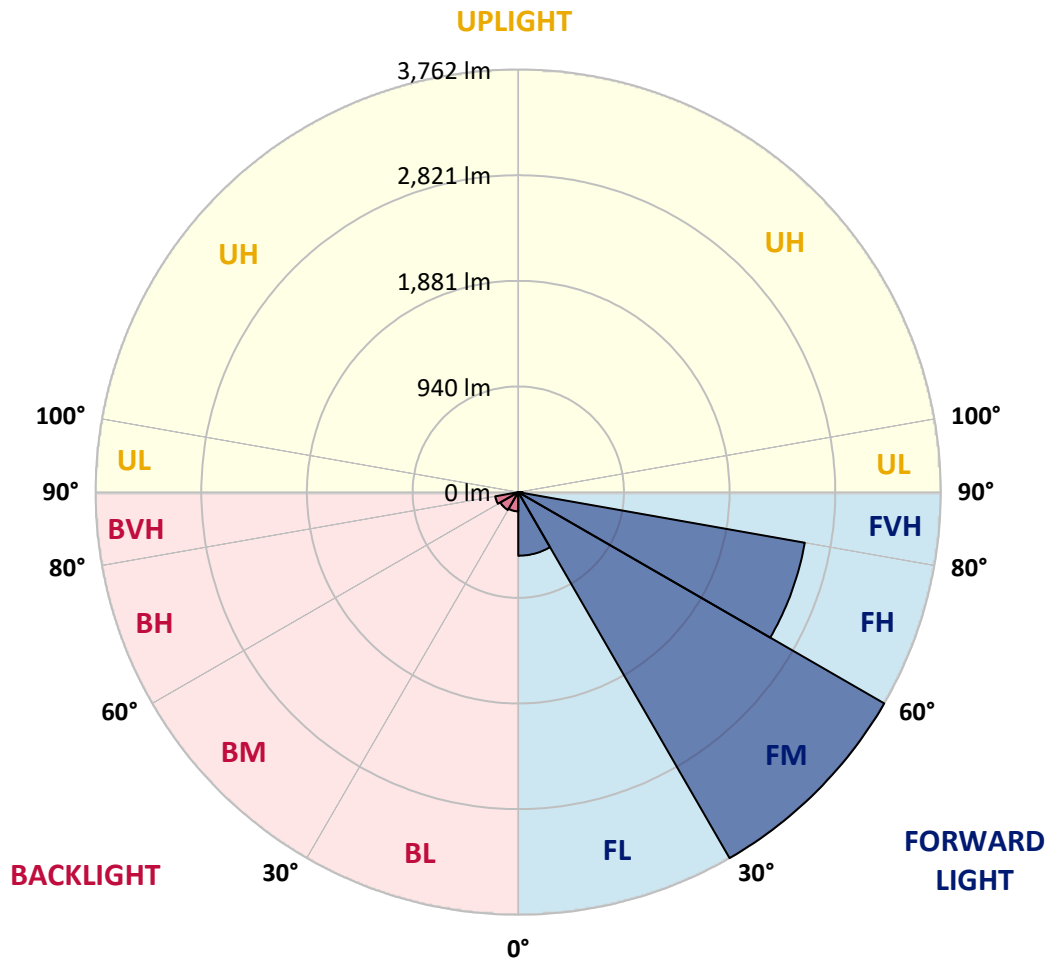


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	566.1	7.5			
FM (30°-60°)	3761.9	50.0			
FH (60°-80°)	2590.1	34.4			G2/5000
FVH (80°-90°)	41.1	0.5			G1/100
BL (0°-30°)	170.9	2.3	B1/500		
BM (30°-60°)	183.6	2.4	B0/220		
BH (60°-80°)	208.3	2.8	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	936.1	936.1	936.1	936.1	936.1	936.1	936.1	936.1	936.1	936.1	936.1
2.5°	1060.2	1059.1	1054.4	1046.3	1035.9	1032.4	1017.3	996.4	984.8	972.1	966.3
5°	1133.3	1127.5	1141.4	1135.6	1137.9	1110.1	1091.5	1076.5	1032.4	1015.0	987.1
7.5°	1149.5	1155.3	1154.2	1163.5	1172.7	1183.2	1170.4	1148.4	1104.3	1078.8	1048.6
10°	1149.5	1147.2	1156.5	1169.3	1195.9	1219.1	1253.9	1224.9	1191.3	1161.1	1106.6
12.5°	1128.7	1125.2	1134.5	1161.1	1208.7	1256.3	1294.5	1322.4	1274.8	1250.5	1179.7
15°	1064.9	1061.4	1099.7	1147.2	1209.9	1287.6	1367.6	1412.9	1380.4	1342.1	1263.2
17.5°	986.0	990.6	1031.2	1110.1	1209.9	1302.7	1404.7	1503.3	1498.7	1450.0	1367.6
20°	959.3	962.8	1003.4	1060.2	1173.9	1313.1	1462.7	1601.9	1629.8	1571.8	1463.9
22.5°	1010.3	1006.9	1010.3	1045.1	1149.5	1303.8	1501.0	1714.4	1764.3	1719.1	1590.3
25°	1184.3	1182.0	1153.0	1099.7	1135.6	1282.9	1520.7	1788.7	1903.5	1861.8	1692.4
27.5°	1439.5	1430.3	1385.0	1273.7	1200.6	1295.7	1553.2	1860.6	2025.3	1977.8	1784.0
30°	1713.3	1691.2	1632.1	1492.9	1368.8	1343.3	1571.8	1914.0	2161.0	2100.7	1864.1
32.5°	1902.4	1931.4	1912.8	1771.3	1581.0	1453.5	1601.9	1981.2	2286.3	2246.9	2001.0
35°	2194.7	2228.3	2150.6	2025.3	1833.9	1628.6	1665.7	2035.8	2478.9	2412.8	2128.6
37.5°	2563.5	2589.1	2533.4	2295.6	2093.8	1844.4	1796.8	2149.4	2644.7	2613.4	2292.1
40°	2749.1	2872.1	2793.2	2578.6	2361.7	2146.0	2013.7	2282.8	2933.6	2908.1	2518.3
42.5°	3005.5	3067.0	3026.4	2867.5	2641.3	2468.4	2281.7	2542.7	3283.9	3283.9	2824.5
45°	3276.9	3279.3	3276.9	3147.0	2946.3	2857.0	2643.6	2868.6	3660.9	3702.6	3191.1
47.5°	3499.6	3569.2	3563.4	3485.7	3330.3	3296.7	3005.5	3239.8	4134.2	4207.2	3548.4
50°	3614.5	3692.2	3715.4	3756.0	3749.0	3819.8	3401.1	3670.2	4542.5	4722.3	4007.7
52.5°	3583.2	3589.0	3731.6	3891.7	4146.9	4345.3	3877.8	4158.5	5020.4	5197.9	4362.7
55°	3326.8	3304.8	3598.2	3781.5	4309.3	4666.6	4537.8	4767.5	5392.7	5663.0	4729.2
57.5°	2764.2	2770.0	3041.5	3413.8	4188.7	4794.2	5243.1	5563.2	5914.7	6187.3	5244.3
60°	1908.2	1901.2	2205.1	2635.5	3479.9	4556.4	5649.1	6594.5	6613.0	6999.3	6168.8
62.5°	1073.0	1075.3	1306.1	1673.8	2434.8	3723.5	5629.4	7689.5	7610.6	7949.3	7219.7
65°	607.8	622.9	781.8	991.8	1458.1	2499.7	4841.7	8125.6	8379.7	8681.3	7857.7
66°	513.9	524.3	660.0	818.9	1163.5	2027.6	4358.0	8041.0	8620.9	8850.6	7844.9
67.5°	397.9	411.8	525.5	649.6	853.7	1403.6	3507.8	7619.9	8665.0	8799.6	7623.4
70°	272.6	281.9	368.9	493.0	583.5	718.0	2097.2	6299.8	7862.3	7976.0	6625.8
72.5°	191.4	196.0	258.7	373.5	448.9	410.6	1040.5	4482.1	6016.8	6238.4	5153.8
75°	138.0	142.7	177.5	268.0	350.3	269.1	476.8	2862.8	3689.9	3863.9	3104.1
77.5°	99.8	105.6	120.6	172.8	254.0	189.1	234.3	1495.2	1740.0	1709.8	1335.1
80°	60.3	66.1	89.3	111.4	185.6	133.4	128.8	624.1	617.1	585.8	419.9
82.5°	27.8	32.5	47.6	75.4	129.9	92.8	61.5	222.7	194.9	178.6	118.3
85°	8.1	10.4	27.8	56.8	66.1	45.2	37.1	76.6	80.0	68.4	39.4
87.5°	0.0	1.2	12.8	13.9	19.7	15.1	13.9	19.7	37.1	30.2	12.8
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°	936.1	936.1	936.1	936.1	936.1	936.1	936.1	936.1	936.1	936.1	936.1
2.5°	945.4	937.3	917.5	887.4	860.7	846.8	827.1	809.7	800.4	799.2	798.1
5°	968.6	946.5	899.0	844.5	803.9	759.8	729.6	707.6	686.7	667.0	678.6
7.5°	999.9	965.1	887.4	816.6	728.5	671.6	618.3	586.9	568.4	551.0	548.7
10°	1048.6	1004.5	879.3	751.7	650.7	567.2	512.7	467.5	442.0	411.8	423.4
12.5°	1114.7	1035.9	849.1	692.5	562.6	474.4	396.7	323.6	283.0	251.7	252.9
15°	1180.9	1077.6	821.3	620.6	482.6	366.6	252.9	203.0	191.4	184.4	186.8
17.5°	1245.8	1111.3	778.3	547.5	390.9	233.2	184.4	174.0	168.2	161.2	161.2
20°	1324.7	1133.3	725.0	480.2	269.1	172.8	157.8	150.8	141.5	132.2	133.4
22.5°	1401.3	1151.9	663.5	394.4	181.0	149.6	132.2	123.0	114.8	105.6	105.6
25°	1477.8	1157.7	583.5	283.0	146.2	119.5	103.2	90.5	82.4	74.2	75.4
27.5°	1530.0	1121.7	508.1	181.0	117.2	90.5	71.9	61.5	54.5	46.4	46.4
30°	1560.2	1055.6	426.9	127.6	88.2	61.5	42.9	32.5	25.5	19.7	18.6
32.5°	1590.3	1002.2	335.2	97.4	58.0	32.5	16.2	5.8	0.0	0.0	0.0
35°	1650.6	941.9	225.0	54.5	19.7	1.2	0.0	0.0	0.0	0.0	0.0
37.5°	1688.9	858.4	103.2	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1785.2	816.6	25.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1941.8	787.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2113.5	776.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2342.0	807.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2583.3	892.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2847.7	972.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3078.6	1068.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3503.1	1295.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4265.2	1742.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5123.6	2074.0	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5438.0	2065.9	22.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	5382.3	1952.2	22.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5093.5	1734.2	19.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4374.3	1432.6	19.7	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3334.9	1115.9	18.6	4.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	2012.6	593.9	15.1	5.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	801.5	208.8	11.6	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	216.9	62.6	7.0	4.6	3.5	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	56.8	23.2	5.8	4.6	2.3	1.2	0.0	0.0	0.0	0.0	0.0
85°	22.0	9.3	4.6	3.5	3.5	2.3	1.2	0.0	0.0	0.0	0.0
87.5°	7.0	3.5	3.5	2.3	2.3	1.2	1.2	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)