

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: P481783

Luminaire Tested: **IFLD-S-SA3A-827-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481783
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-827-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

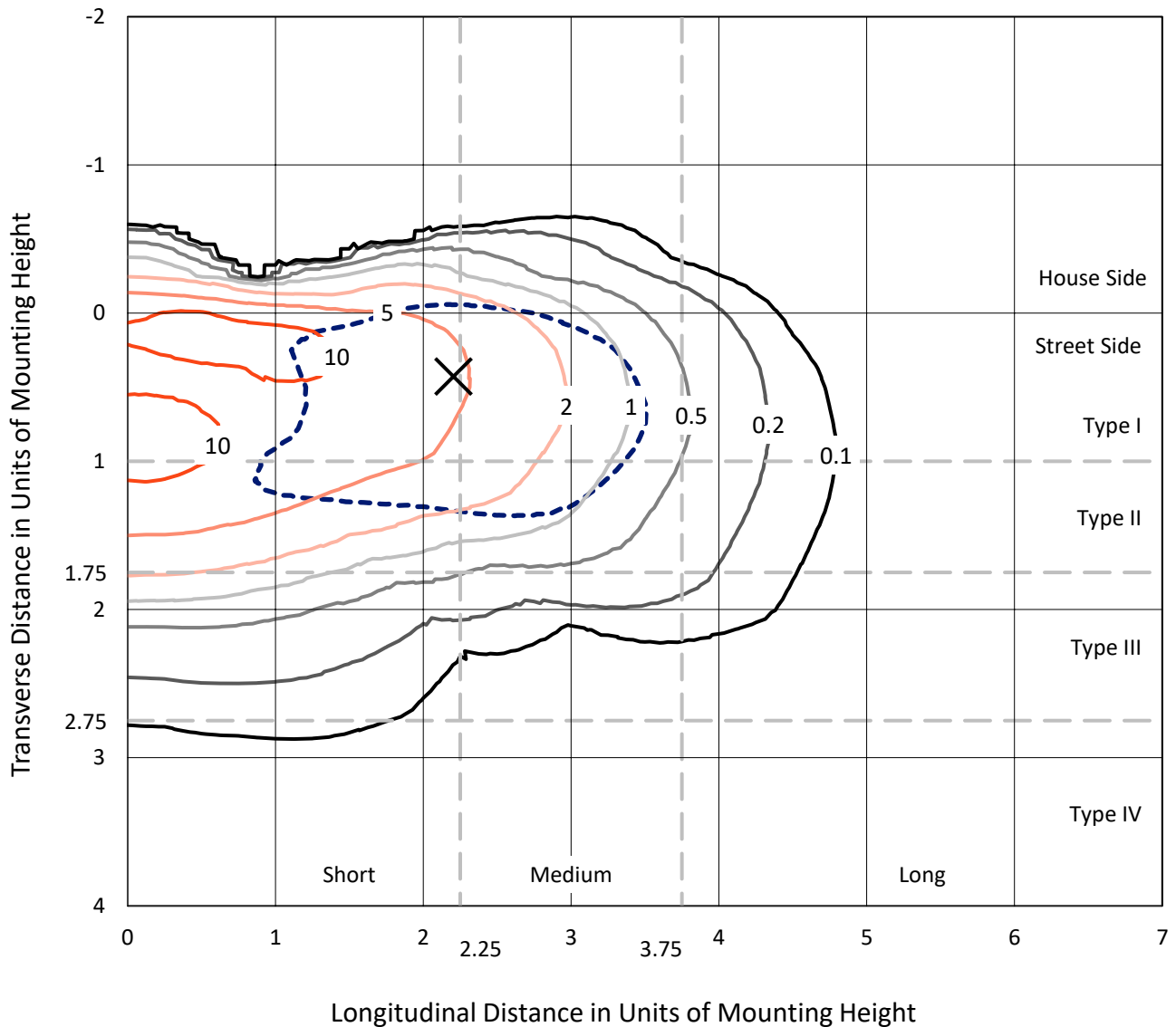
Lumens per Lamp: N/A
Luminaire Lumens: 7283.4 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
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

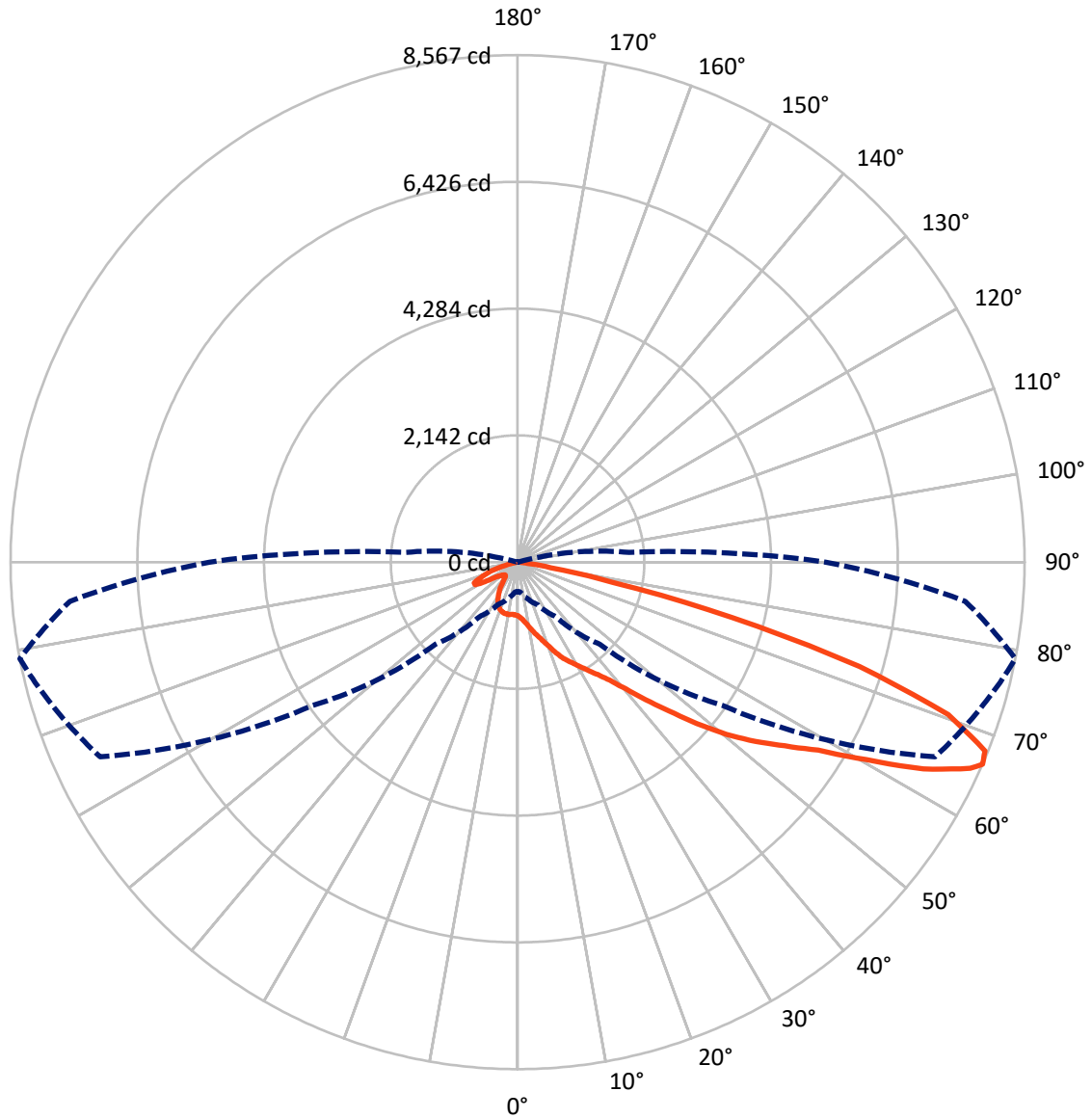
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.6 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	546.9	0.0	546.9
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	6736.5	0.0	6736.5
	% Fixture	92.5	0.0	92.5
Total	Lumens	7283.4	0.0	7283.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.7	1.2
10°-20°	235.8	3.2
20°-30°	391.8	5.4
30°-40°	673.0	9.2
40°-50°	1219.2	16.7
50°-60°	1927.1	26.5
60°-70°	1961.0	26.9
70°-80°	747.8	10.3
80°-90°	41.9	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°	7283.4	100.0
0°-180°	7283.4	100.0

Coefficient of Utilization

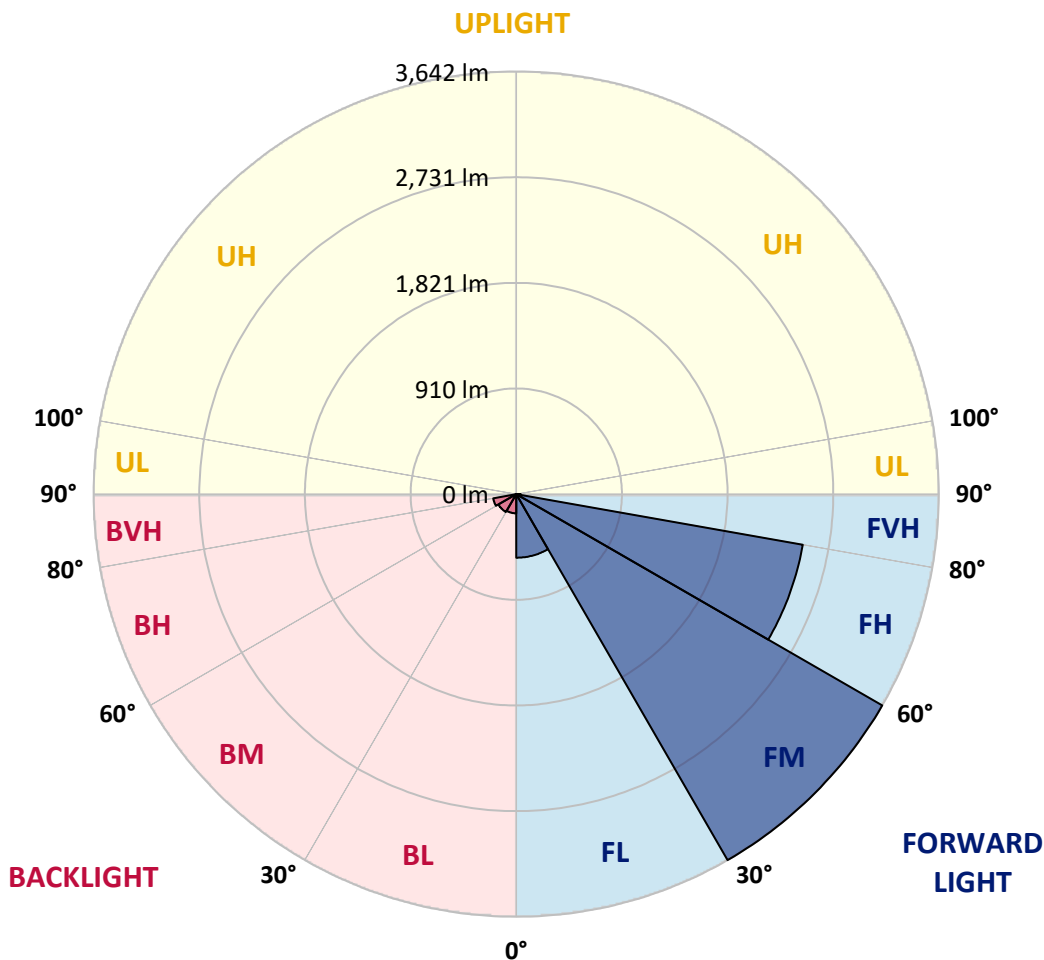


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	548.0	7.5			
FM (30°-60°)	3641.5	50.0			
FH (60°-80°)	2507.2	34.4			G2/5000
FVH (80°-90°)	39.8	0.5			G1/100
BL (0°-30°)	165.4	2.3	B1/500		
BM (30°-60°)	177.7	2.4	B0/220		
BH (60°-80°)	201.6	2.8	B1/500		G1/500
BVH (80°-90°)	2.1	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°	906.1	906.1	906.1	906.1	906.1	906.1	906.1	906.1	906.1	906.1	906.1
2.5°	1026.3	1025.2	1020.7	1012.8	1002.7	999.3	984.7	964.5	953.3	941.0	935.3
5°	1097.0	1091.4	1104.9	1099.3	1101.5	1074.6	1056.6	1042.0	999.3	982.5	955.5
7.5°	1112.7	1118.4	1117.2	1126.2	1135.2	1145.3	1133.0	1111.6	1069.0	1044.3	1015.1
10°	1112.7	1110.5	1119.5	1131.8	1157.7	1180.1	1213.8	1185.7	1153.2	1124.0	1071.2
12.5°	1092.5	1089.2	1098.2	1124.0	1170.0	1216.0	1253.1	1280.1	1234.0	1210.4	1141.9
15°	1030.8	1027.4	1064.5	1110.5	1171.1	1246.4	1323.8	1367.6	1336.2	1299.1	1222.8
17.5°	954.4	958.9	998.2	1074.6	1171.1	1261.0	1359.8	1455.2	1450.7	1403.6	1323.8
20°	928.6	932.0	971.3	1026.3	1136.3	1271.1	1415.9	1550.7	1577.6	1521.5	1417.0
22.5°	978.0	974.6	978.0	1011.7	1112.7	1262.1	1453.0	1659.6	1707.9	1664.1	1539.4
25°	1146.4	1144.2	1116.1	1064.5	1099.3	1241.9	1472.1	1731.4	1842.6	1802.2	1638.2
27.5°	1393.5	1384.5	1340.7	1232.9	1162.2	1254.2	1503.5	1801.1	1960.5	1914.5	1726.9
30°	1658.5	1637.1	1579.9	1445.1	1325.0	1300.3	1521.5	1852.7	2091.9	2033.5	1804.4
32.5°	1841.5	1869.6	1851.6	1714.6	1530.4	1406.9	1550.7	1917.8	2213.1	2175.0	1936.9
35°	2124.4	2157.0	2081.8	1960.5	1775.2	1576.5	1612.4	1970.6	2399.5	2335.5	2060.4
37.5°	2481.5	2506.2	2452.3	2222.1	2026.7	1785.3	1739.3	2080.6	2560.1	2529.8	2218.8
40°	2661.2	2780.2	2703.8	2496.1	2286.1	2077.3	1949.3	2209.8	2839.7	2815.0	2437.7
42.5°	2909.3	2968.8	2929.5	2775.7	2556.7	2389.4	2208.7	2461.3	3178.8	3178.8	2734.1
45°	3172.1	3174.3	3172.1	3046.3	2852.0	2765.6	2559.0	2776.8	3543.7	3584.1	3089.0
47.5°	3387.6	3455.0	3449.4	3374.2	3223.7	3191.1	2909.3	3136.1	4001.8	4072.6	3434.8
50°	3498.8	3574.0	3596.5	3635.8	3629.1	3697.6	3292.2	3552.7	4397.1	4571.1	3879.5
52.5°	3468.5	3474.1	3612.2	3767.2	4014.2	4206.2	3753.7	4025.4	4859.7	5031.5	4223.1
55°	3220.3	3199.0	3483.1	3660.5	4171.4	4517.2	4392.6	4614.9	5220.1	5481.8	4577.9
57.5°	2675.8	2681.4	2944.1	3304.6	4054.6	4640.8	5075.3	5385.2	5725.4	5989.3	5076.4
60°	1847.1	1840.4	2134.5	2551.1	3368.6	4410.6	5468.3	6383.4	6401.4	6775.3	5971.3
62.5°	1038.6	1040.9	1264.3	1620.3	2356.9	3604.4	5449.2	7443.4	7367.0	7694.9	6988.6
65°	588.4	603.0	756.8	960.0	1411.4	2419.7	4686.8	7865.6	8111.5	8403.4	7606.2
66°	497.4	507.5	638.9	792.7	1126.2	1962.7	4218.6	7783.6	8345.0	8567.4	7593.9
67.5°	385.1	398.6	508.7	628.8	826.4	1358.7	3395.5	7376.0	8387.7	8518.0	7379.4
70°	263.9	272.9	357.1	477.2	564.8	695.0	2030.1	6098.2	7610.7	7720.7	6413.7
72.5°	185.3	189.8	250.4	361.6	434.5	397.5	1007.2	4338.7	5824.2	6038.7	4988.8
75°	133.6	138.1	171.8	259.4	339.1	260.5	461.5	2771.2	3571.8	3740.2	3004.8
77.5°	96.6	102.2	116.8	167.3	245.9	183.0	226.8	1447.4	1684.3	1655.1	1292.4
80°	58.4	64.0	86.5	107.8	179.7	129.1	124.6	604.1	597.4	567.0	406.5
82.5°	26.9	31.4	46.0	73.0	125.8	89.8	59.5	215.6	188.6	172.9	114.5
85°	7.9	10.1	26.9	55.0	64.0	43.8	35.9	74.1	77.5	66.2	38.2
87.5°	0.0	1.1	12.4	13.5	19.1	14.6	13.5	19.1	35.9	29.2	12.4
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°	906.1	906.1	906.1	906.1	906.1	906.1	906.1	906.1	906.1	906.1	906.1
2.5°	915.1	907.3	888.2	859.0	833.2	819.7	800.6	783.8	774.8	773.6	772.5
5°	937.6	916.2	870.2	817.4	778.1	735.5	706.3	684.9	664.7	645.6	656.9
7.5°	967.9	934.2	859.0	790.5	705.2	650.1	598.5	568.2	550.2	533.4	531.1
10°	1015.1	972.4	851.1	727.6	629.9	549.1	496.3	452.5	427.8	398.6	409.8
12.5°	1079.1	1002.7	821.9	670.3	544.6	459.2	384.0	313.3	274.0	243.7	244.8
15°	1143.1	1043.1	795.0	600.7	467.1	354.8	244.8	196.5	185.3	178.5	180.8
17.5°	1205.9	1075.7	753.4	530.0	378.4	225.7	178.5	168.4	162.8	156.1	156.1
20°	1282.3	1097.0	701.8	464.9	260.5	167.3	152.7	146.0	137.0	128.0	129.1
22.5°	1356.4	1115.0	642.3	381.8	175.2	144.8	128.0	119.0	111.2	102.2	102.2
25°	1430.5	1120.6	564.8	274.0	141.5	115.7	99.9	87.6	79.7	71.9	73.0
27.5°	1481.0	1085.8	491.8	175.2	113.4	87.6	69.6	59.5	52.8	44.9	44.9
30°	1510.2	1021.8	413.2	123.5	85.3	59.5	41.5	31.4	24.7	19.1	18.0
32.5°	1539.4	970.1	324.5	94.3	56.1	31.4	15.7	5.6	0.0	0.0	0.0
35°	1597.8	911.8	217.8	52.8	19.1	1.1	0.0	0.0	0.0	0.0	0.0
37.5°	1634.9	830.9	99.9	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1728.1	790.5	24.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1879.7	762.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2045.8	751.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2267.0	781.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2500.6	863.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2756.6	941.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2980.1	1034.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3391.0	1254.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4128.7	1686.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	4959.6	2007.7	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5263.9	1999.8	21.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	5210.0	1889.8	21.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4930.4	1678.7	19.1	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4234.3	1386.7	19.1	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3228.2	1080.2	18.0	4.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	1948.2	574.9	14.6	5.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	775.9	202.1	11.2	4.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	210.0	60.6	6.7	4.5	3.4	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	55.0	22.5	5.6	4.5	2.2	1.1	0.0	0.0	0.0	0.0	0.0
85°	21.3	9.0	4.5	3.4	3.4	2.2	1.1	0.0	0.0	0.0	0.0
87.5°	6.7	3.4	3.4	2.2	2.2	1.1	1.1	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)