

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: P481546

Luminaire Tested: **IFLD-S-SA2C-727-U-T2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P481546
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-727-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

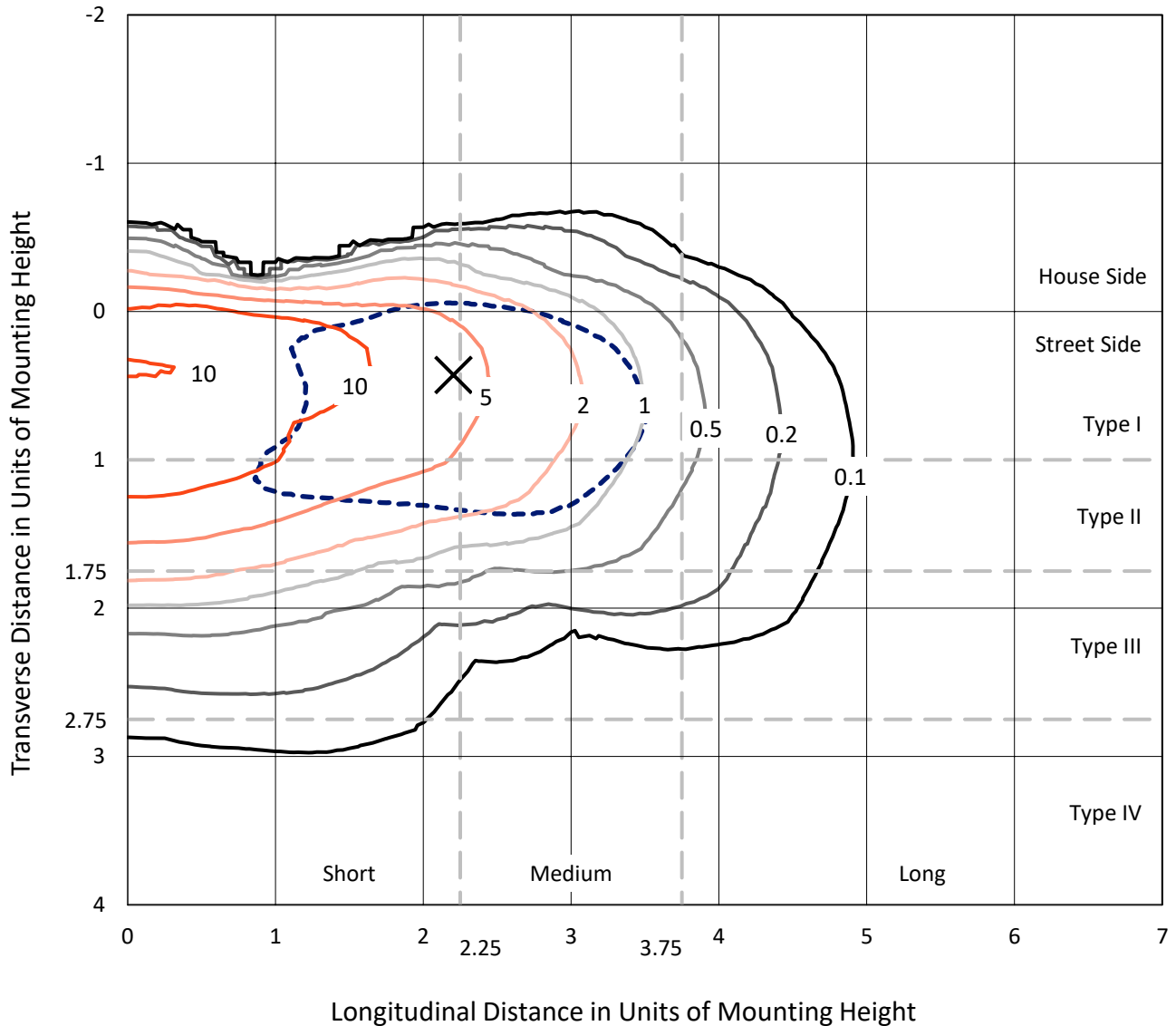
Lumens per Lamp: N/A
Luminaire Lumens: 8560 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

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

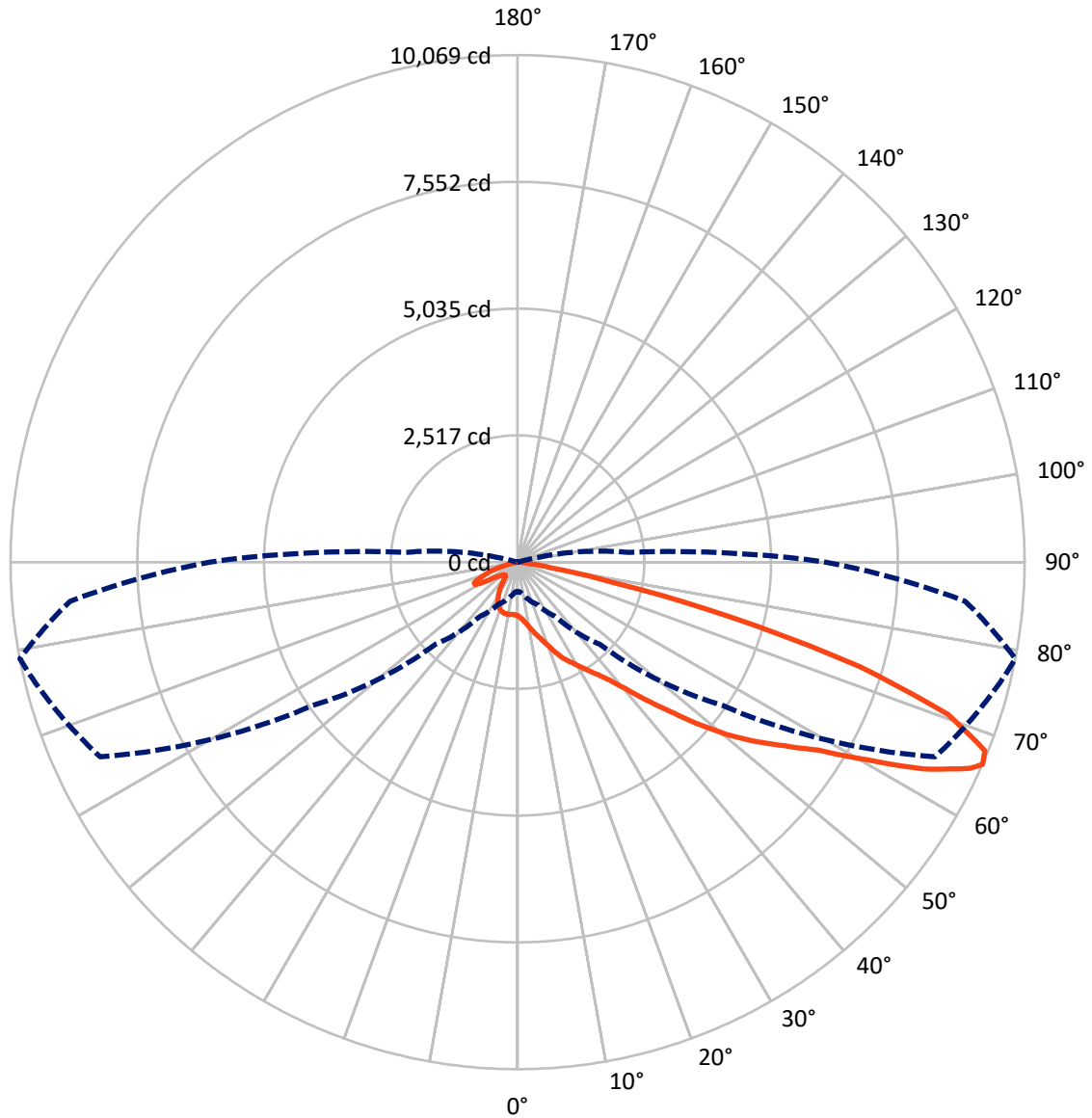
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16 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	642.7	0.0	642.7
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	7917.3	0.0	7917.3
	% Fixture	92.5	0.0	92.5
Total	Lumens	8560.0	0.0	8560.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.7	1.2
10°-20°	277.2	3.2
20°-30°	460.5	5.4
30°-40°	790.9	9.2
40°-50°	1432.9	16.7
50°-60°	2264.9	26.5
60°-70°	2304.7	26.9
70°-80°	878.9	10.3
80°-90°	49.3	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°	8560.0	100.0
0°-180°	8560.0	100.0

Coefficient of Utilization



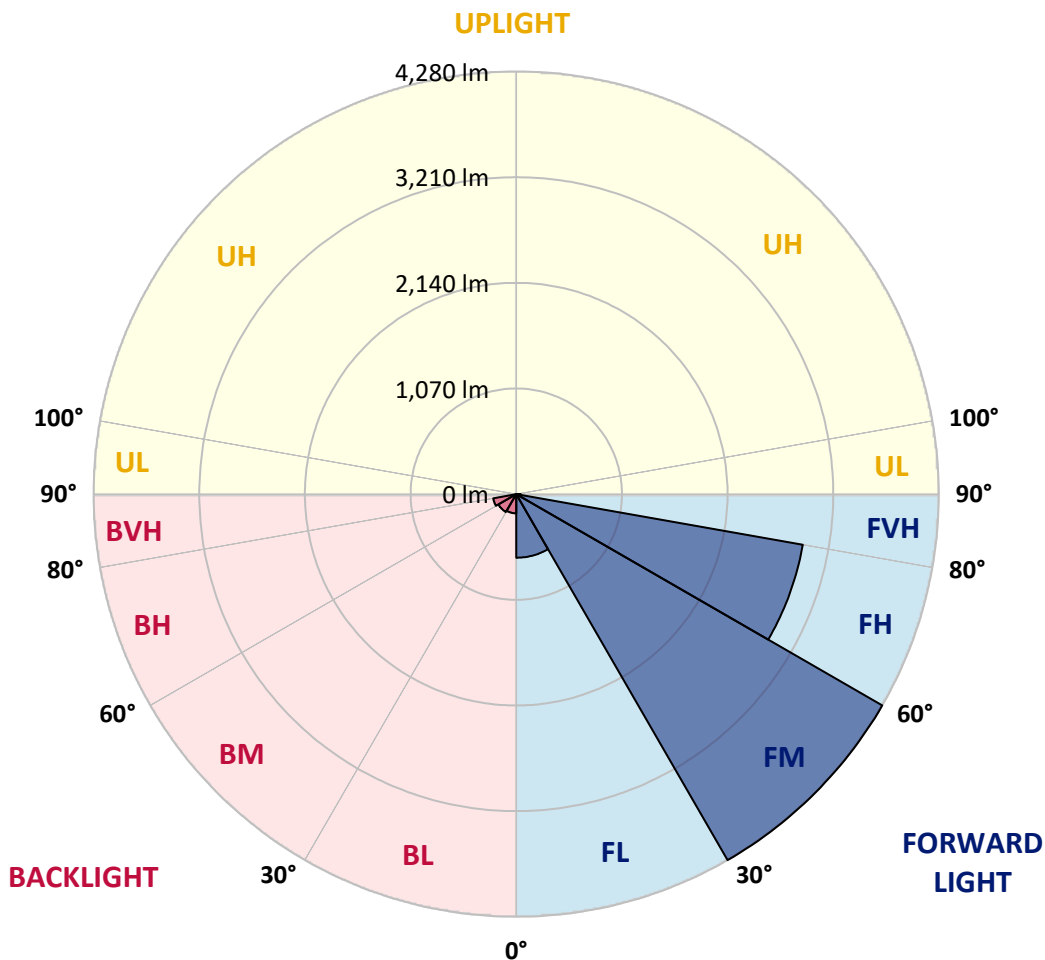
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	644.0	7.5			
FM (30°-60°)	4279.8	50.0			
FH (60°-80°)	2946.7	34.4			G2/5000
FVH (80°-90°)	46.8	0.5			G1/100
BL (0°-30°)	194.4	2.3	B1/500		
BM (30°-60°)	208.9	2.4	B0/220		
BH (60°-80°)	236.9	2.8	B1/500		G1/500
BVH (80°-90°)	2.5	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°	1065.0	1065.0	1065.0	1065.0	1065.0	1065.0	1065.0	1065.0	1065.0	1065.0	1065.0
2.5°	1206.2	1204.9	1199.6	1190.3	1178.5	1174.5	1157.3	1133.6	1120.4	1105.9	1099.3
5°	1289.3	1282.7	1298.6	1292.0	1294.6	1262.9	1241.8	1224.7	1174.5	1154.7	1123.0
7.5°	1307.8	1314.4	1313.1	1323.6	1334.2	1346.1	1331.5	1306.5	1256.3	1227.3	1193.0
10°	1307.8	1305.2	1315.7	1330.2	1360.6	1387.0	1426.6	1393.6	1355.3	1321.0	1259.0
12.5°	1284.0	1280.1	1290.6	1321.0	1375.1	1429.2	1472.7	1504.4	1450.3	1422.6	1342.1
15°	1211.5	1207.5	1251.0	1305.2	1376.4	1464.8	1555.9	1607.4	1570.4	1526.9	1437.1
17.5°	1121.7	1127.0	1173.2	1262.9	1376.4	1482.0	1598.1	1710.3	1705.0	1649.6	1555.9
20°	1091.4	1095.3	1141.5	1206.2	1335.5	1493.9	1664.1	1822.5	1854.1	1788.2	1665.4
22.5°	1149.4	1145.5	1149.4	1189.0	1307.8	1483.3	1707.7	1950.5	2007.2	1955.7	1809.3
25°	1347.4	1344.7	1311.8	1251.0	1292.0	1459.6	1730.1	2034.9	2165.6	2118.1	1925.4
27.5°	1637.7	1627.2	1575.7	1449.0	1365.9	1474.1	1767.0	2116.7	2304.1	2250.0	2029.6
30°	1949.1	1924.1	1856.8	1698.4	1557.2	1528.2	1788.2	2177.5	2458.5	2389.9	2120.7
32.5°	2164.3	2197.2	2176.1	2015.1	1798.7	1653.5	1822.5	2254.0	2601.1	2556.2	2276.4
35°	2496.8	2535.1	2446.7	2304.1	2086.4	1852.8	1895.0	2316.0	2820.1	2744.9	2421.6
37.5°	2916.5	2945.5	2882.2	2611.6	2382.0	2098.3	2044.2	2445.3	3008.8	2973.2	2607.7
40°	3127.6	3267.5	3177.8	2933.6	2686.8	2441.4	2290.9	2597.1	3337.4	3308.4	2865.0
42.5°	3419.3	3489.2	3443.0	3262.2	3004.9	2808.3	2595.8	2892.7	3736.0	3736.0	3213.4
45°	3728.1	3730.7	3728.1	3580.3	3352.0	3250.3	3007.5	3263.5	4164.9	4212.4	3630.4
47.5°	3981.4	4060.6	4054.0	3965.6	3788.8	3750.5	3419.3	3685.8	4703.3	4786.4	4036.9
50°	4112.1	4200.5	4226.9	4273.1	4265.2	4345.7	3869.3	4175.4	5167.8	5372.4	4559.5
52.5°	4076.5	4083.1	4245.4	4427.5	4717.8	4943.5	4411.7	4731.0	5711.5	5913.4	4963.3
55°	3784.8	3759.7	4093.6	4302.1	4902.6	5309.0	5162.5	5423.8	6135.1	6442.6	5380.3
57.5°	3144.8	3151.4	3460.2	3883.8	4765.3	5454.2	5964.9	6329.1	6729.0	7039.1	5966.2
60°	2170.9	2162.9	2508.7	2998.3	3959.0	5183.7	6426.8	7502.3	7523.4	7962.9	7018.0
62.5°	1220.7	1223.3	1485.9	1904.3	2770.0	4236.1	6404.3	8748.1	8658.3	9043.7	8213.6
65°	691.5	708.7	889.5	1128.3	1658.8	2843.9	5508.3	9244.3	9533.3	9876.4	8939.4
66°	584.6	596.5	750.9	931.7	1323.6	2306.8	4958.0	9147.9	9807.8	10069.1	8924.9
67.5°	452.6	468.5	597.8	739.0	971.3	1596.8	3990.7	8668.9	9857.9	10011.0	8672.9
70°	310.1	320.7	419.7	560.9	663.8	816.9	2386.0	7167.1	8944.7	9074.0	7537.9
72.5°	217.7	223.0	294.3	424.9	510.7	467.2	1183.7	5099.2	6845.1	7097.2	5863.3
75°	157.0	162.3	201.9	304.8	398.5	306.2	542.4	3256.9	4197.9	4395.8	3531.4
77.5°	113.5	120.1	137.2	196.6	289.0	215.1	266.6	1701.1	1979.5	1945.2	1518.9
80°	68.6	75.2	101.6	126.7	211.1	151.8	146.5	710.0	702.1	666.4	477.7
82.5°	31.7	37.0	54.1	85.8	147.8	105.6	69.9	253.4	221.7	203.2	134.6
85°	9.2	11.9	31.7	64.7	75.2	51.5	42.2	87.1	91.1	77.9	44.9
87.5°	0.0	1.3	14.5	15.8	22.4	17.2	15.8	22.4	42.2	34.3	14.5
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°	1065.0	1065.0	1065.0	1065.0	1065.0	1065.0	1065.0	1065.0	1065.0	1065.0	1065.0
2.5°	1075.5	1066.3	1043.9	1009.5	979.2	963.4	940.9	921.1	910.6	909.3	907.9
5°	1101.9	1076.8	1022.7	960.7	914.5	864.4	830.1	805.0	781.2	758.8	772.0
7.5°	1137.6	1098.0	1009.5	929.0	828.8	764.1	703.4	667.8	646.6	626.8	624.2
10°	1193.0	1142.8	1000.3	855.1	740.3	645.3	583.3	531.8	502.8	468.5	481.7
12.5°	1268.2	1178.5	966.0	787.8	640.0	539.7	451.3	368.2	322.0	286.4	287.7
15°	1343.4	1226.0	934.3	706.0	549.0	417.0	287.7	230.9	217.7	209.8	212.5
17.5°	1417.3	1264.2	885.5	622.9	444.7	265.3	209.8	198.0	191.4	183.4	183.4
20°	1507.1	1289.3	824.8	546.3	306.2	196.6	179.5	171.6	161.0	150.4	151.8
22.5°	1594.2	1310.4	754.9	448.7	205.9	170.2	150.4	139.9	130.6	120.1	120.1
25°	1681.3	1317.0	663.8	322.0	166.3	135.9	117.5	102.9	93.7	84.5	85.8
27.5°	1740.6	1276.1	578.0	205.9	133.3	102.9	81.8	69.9	62.0	52.8	52.8
30°	1775.0	1200.9	485.6	145.2	100.3	69.9	48.8	37.0	29.0	22.4	21.1
32.5°	1809.3	1140.2	381.4	110.9	66.0	37.0	18.5	6.6	0.0	0.0	0.0
35°	1877.9	1071.6	256.0	62.0	22.4	1.3	0.0	0.0	0.0	0.0	0.0
37.5°	1921.4	976.6	117.5	9.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2031.0	929.0	29.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2209.1	896.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2404.4	882.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2664.4	918.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2938.9	1014.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3239.8	1105.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3502.4	1215.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3985.4	1474.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4852.4	1982.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5829.0	2359.6	14.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	6186.6	2350.3	25.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	6123.3	2221.0	25.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5794.7	1972.9	22.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4976.5	1629.8	22.4	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3794.0	1269.5	21.1	5.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	2289.6	675.7	17.2	6.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	911.9	237.5	13.2	5.3	2.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	246.8	71.3	7.9	5.3	4.0	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	64.7	26.4	6.6	5.3	2.6	1.3	0.0	0.0	0.0	0.0	0.0
85°	25.1	10.6	5.3	4.0	4.0	2.6	1.3	0.0	0.0	0.0	0.0
87.5°	7.9	4.0	4.0	2.6	2.6	1.3	1.3	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)