

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: P481819

Luminaire Tested: **IFLD-S-SA2C-830-U-T2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P481819
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-830-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

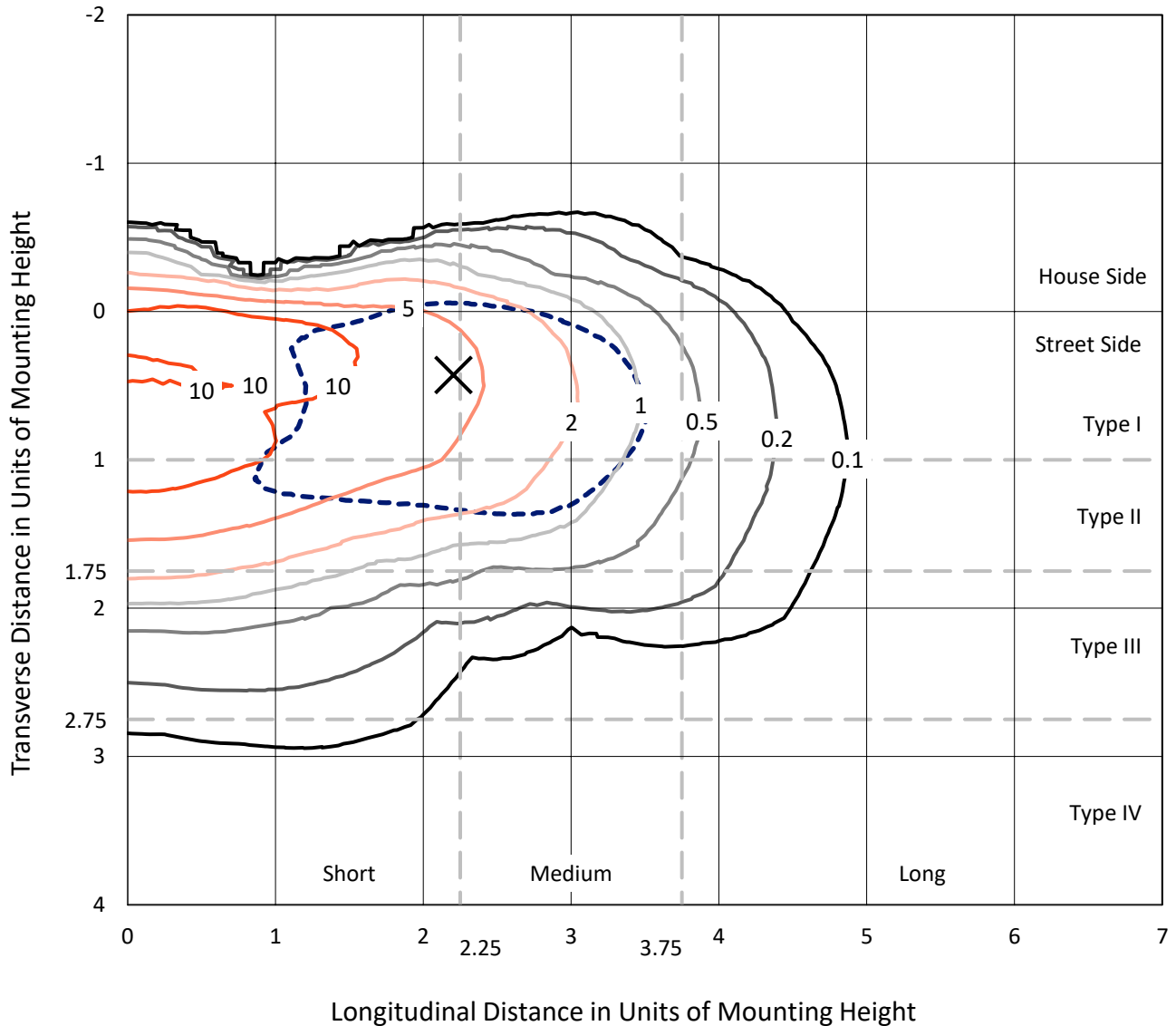
Lumens per Lamp: N/A
Luminaire Lumens: 8133.2 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

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

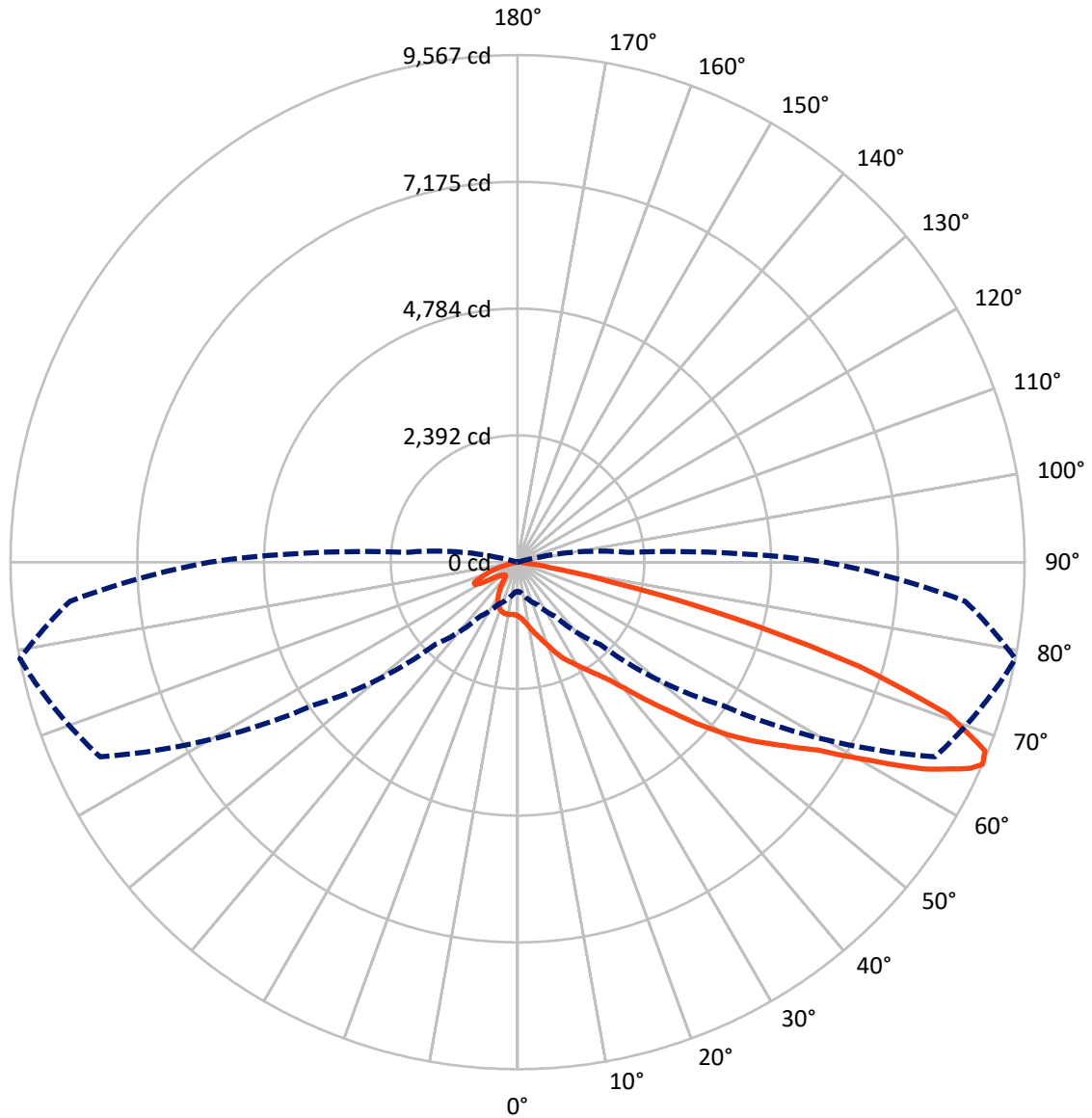
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.2 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	610.7	0.0	610.7
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	7522.5	0.0	7522.5
	% Fixture	92.5	0.0	92.5
Total	Lumens	8133.2	0.0	8133.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.7	1.2
10°-20°	263.4	3.2
20°-30°	437.5	5.4
30°-40°	751.5	9.2
40°-50°	1361.4	16.7
50°-60°	2152.0	26.5
60°-70°	2189.8	26.9
70°-80°	835.1	10.3
80°-90°	46.8	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°	8133.2	100.0
0°-180°	8133.2	100.0

Coefficient of Utilization

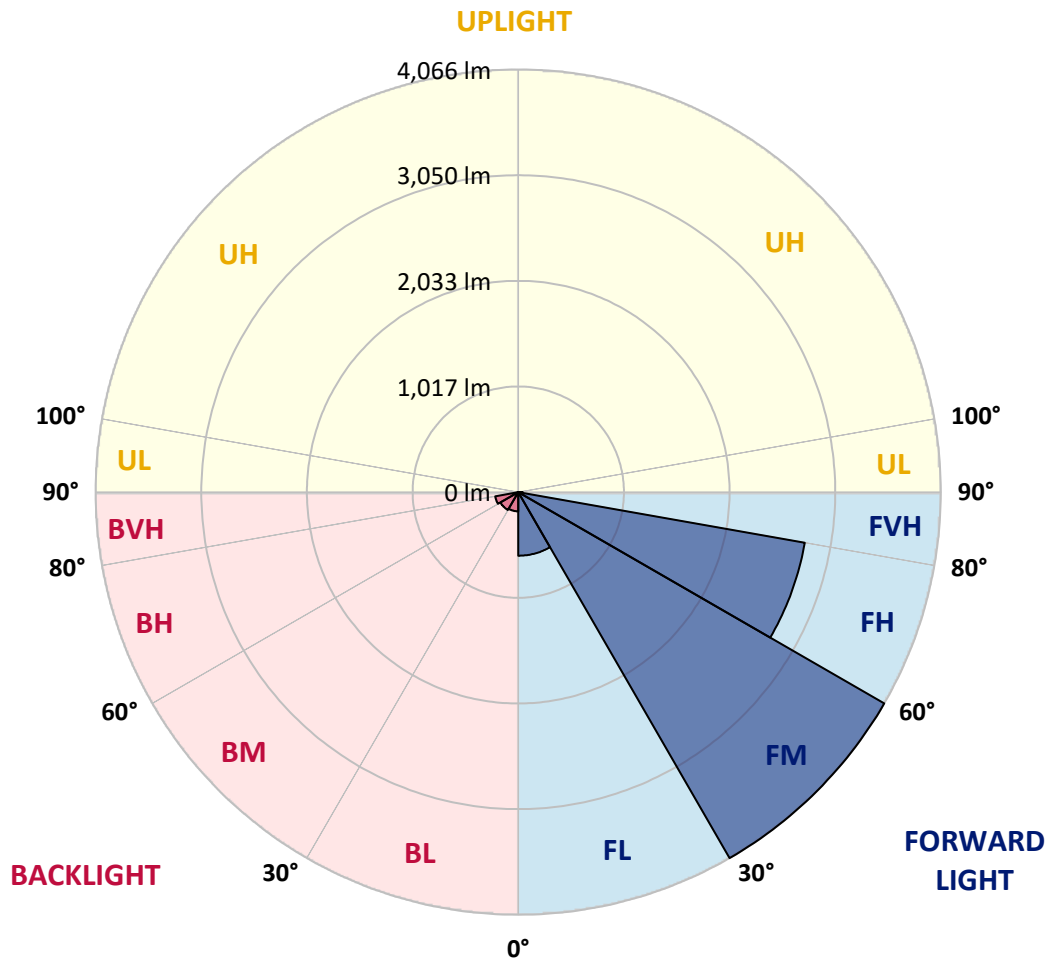


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	611.9	7.5			
FM (30°-60°)	4066.4	50.0			
FH (60°-80°)	2799.8	34.4			G2/5000
FVH (80°-90°)	44.4	0.5			G1/100
BL (0°-30°)	184.7	2.3	B1/500		
BM (30°-60°)	198.5	2.4	B0/220		
BH (60°-80°)	225.1	2.8	B1/500		G1/500
BVH (80°-90°)	2.4	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°	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9
2.5°	1146.0	1144.8	1139.8	1131.0	1119.7	1115.9	1099.6	1077.1	1064.5	1050.7	1044.5
5°	1225.0	1218.8	1233.8	1227.5	1230.0	1199.9	1179.9	1163.6	1115.9	1097.1	1067.0
7.5°	1242.6	1248.9	1247.6	1257.6	1267.7	1278.9	1265.2	1241.3	1193.7	1166.1	1133.5
10°	1242.6	1240.1	1250.1	1263.9	1292.7	1317.8	1355.4	1324.1	1287.7	1255.1	1196.2
12.5°	1220.0	1216.3	1226.3	1255.1	1306.5	1357.9	1399.3	1429.4	1378.0	1351.7	1275.2
15°	1151.0	1147.3	1188.7	1240.1	1307.8	1391.8	1478.3	1527.2	1492.1	1450.7	1365.5
17.5°	1065.8	1070.8	1114.7	1199.9	1307.8	1408.1	1518.4	1625.0	1620.0	1567.3	1478.3
20°	1036.9	1040.7	1084.6	1146.0	1268.9	1419.4	1581.1	1731.6	1761.7	1699.0	1582.4
22.5°	1092.1	1088.4	1092.1	1129.7	1242.6	1409.3	1622.5	1853.2	1907.1	1858.2	1719.1
25°	1280.2	1277.7	1246.3	1188.7	1227.5	1386.8	1643.8	1933.5	2057.6	2012.5	1829.4
27.5°	1556.0	1546.0	1497.1	1376.7	1297.8	1400.6	1678.9	2011.2	2189.3	2137.8	1928.4
30°	1852.0	1828.1	1764.2	1613.7	1479.6	1452.0	1699.0	2068.9	2336.0	2270.8	2015.0
32.5°	2056.3	2087.7	2067.6	1914.7	1709.0	1571.1	1731.6	2141.6	2471.4	2428.7	2162.9
35°	2372.3	2408.7	2324.7	2189.3	1982.4	1760.4	1800.6	2200.5	2679.5	2608.0	2300.8
37.5°	2771.0	2798.6	2738.4	2481.4	2263.2	1993.6	1942.2	2323.4	2858.8	2825.0	2477.6
40°	2971.7	3104.6	3019.3	2787.3	2552.9	2319.7	2176.7	2467.6	3171.0	3143.4	2722.1
42.5°	3248.8	3315.2	3271.3	3099.6	2855.1	2668.2	2466.4	2748.5	3549.7	3549.7	3053.2
45°	3542.2	3544.7	3542.2	3401.7	3184.8	3088.3	2857.6	3100.8	3957.2	4002.3	3449.4
47.5°	3782.9	3858.1	3851.9	3767.9	3599.8	3563.5	3248.8	3502.0	4468.8	4547.8	3835.6
50°	3907.0	3991.1	4016.1	4060.0	4052.5	4129.0	3676.3	3967.2	4910.1	5104.5	4332.1
52.5°	3873.2	3879.5	4033.7	4206.7	4482.6	4697.0	4191.7	4495.1	5426.7	5618.6	4715.8
55°	3596.1	3572.3	3889.5	4087.6	4658.1	5044.3	4905.1	5153.4	5829.2	6121.4	5112.0
57.5°	2988.0	2994.2	3287.6	3690.1	4527.7	5182.2	5667.5	6013.5	6393.5	6688.1	5668.7
60°	2062.6	2055.1	2383.6	2848.8	3761.6	4925.2	6106.3	7128.2	7148.3	7565.8	6668.1
62.5°	1159.8	1162.3	1411.9	1809.3	2631.9	4024.9	6085.0	8311.9	8226.6	8592.7	7804.1
65°	657.0	673.3	845.1	1072.1	1576.1	2702.1	5233.6	8783.3	9057.9	9383.9	8493.7
66°	555.5	566.7	713.4	885.2	1257.6	2191.8	4710.8	8691.8	9318.7	9567.0	8479.9
67.5°	430.1	445.1	568.0	702.2	922.8	1517.2	3791.7	8236.6	9366.4	9511.8	8240.4
70°	294.7	304.7	398.7	532.9	630.7	776.1	2267.0	6809.7	8498.7	8621.6	7162.1
72.5°	206.9	211.9	279.6	403.7	485.2	443.9	1124.7	4844.9	6503.8	6743.3	5570.9
75°	149.2	154.2	191.8	289.6	378.7	290.9	515.3	3094.5	3988.5	4176.6	3355.3
77.5°	107.8	114.1	130.4	186.8	274.6	204.4	253.3	1616.2	1880.8	1848.2	1443.2
80°	65.2	71.5	96.5	120.4	200.6	144.2	139.2	674.6	667.1	633.2	453.9
82.5°	30.1	35.1	51.4	81.5	140.4	100.3	66.5	240.7	210.6	193.1	127.9
85°	8.8	11.3	30.1	61.4	71.5	48.9	40.1	82.8	86.5	74.0	42.6
87.5°	0.0	1.3	13.8	15.0	21.3	16.3	15.0	21.3	40.1	32.6	13.8
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°	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9	1011.9
2.5°	1021.9	1013.1	991.8	959.2	930.4	915.3	894.0	875.2	865.2	863.9	862.7
5°	1047.0	1023.2	971.7	912.8	868.9	821.3	788.7	764.9	742.3	721.0	733.5
7.5°	1080.8	1043.2	959.2	882.7	787.4	726.0	668.3	634.5	614.4	595.6	593.1
10°	1133.5	1085.8	950.4	812.5	703.4	613.1	554.2	505.3	477.7	445.1	457.7
12.5°	1205.0	1119.7	917.8	748.6	608.1	512.8	428.8	349.8	305.9	272.1	273.3
15°	1276.4	1164.8	887.7	670.8	521.6	396.2	273.3	219.4	206.9	199.4	201.9
17.5°	1346.7	1201.2	841.3	591.8	422.6	252.0	199.4	188.1	181.8	174.3	174.3
20°	1431.9	1225.0	783.7	519.1	290.9	186.8	170.5	163.0	153.0	142.9	144.2
22.5°	1514.7	1245.1	717.2	426.3	195.6	161.7	142.9	132.9	124.1	114.1	114.1
25°	1597.4	1251.4	630.7	305.9	158.0	129.1	111.6	97.8	89.0	80.2	81.5
27.5°	1653.8	1212.5	549.2	195.6	126.6	97.8	77.7	66.5	58.9	50.2	50.2
30°	1686.5	1141.0	461.4	137.9	95.3	66.5	46.4	35.1	27.6	21.3	20.1
32.5°	1719.1	1083.3	362.4	105.3	62.7	35.1	17.6	6.3	0.0	0.0	0.0
35°	1784.3	1018.1	243.3	58.9	21.3	1.3	0.0	0.0	0.0	0.0	0.0
37.5°	1825.6	927.9	111.6	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1929.7	882.7	27.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2099.0	851.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2284.5	838.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2531.6	872.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2792.4	964.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3078.2	1050.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3327.8	1154.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	3786.7	1400.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	4610.5	1883.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5538.3	2241.9	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5878.1	2233.1	23.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	5817.9	2110.3	23.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5505.7	1874.5	21.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4728.3	1548.5	21.3	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3604.9	1206.2	20.1	5.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	2175.5	642.0	16.3	6.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	866.4	225.7	12.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	234.5	67.7	7.5	5.0	3.8	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	61.4	25.1	6.3	5.0	2.5	1.3	0.0	0.0	0.0	0.0	0.0
85°	23.8	10.0	5.0	3.8	3.8	2.5	1.3	0.0	0.0	0.0	0.0
87.5°	7.5	3.8	3.8	2.5	2.5	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)