

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: P481664

Luminaire Tested: **IFLD-S-SA2D-740-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481664
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-740-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

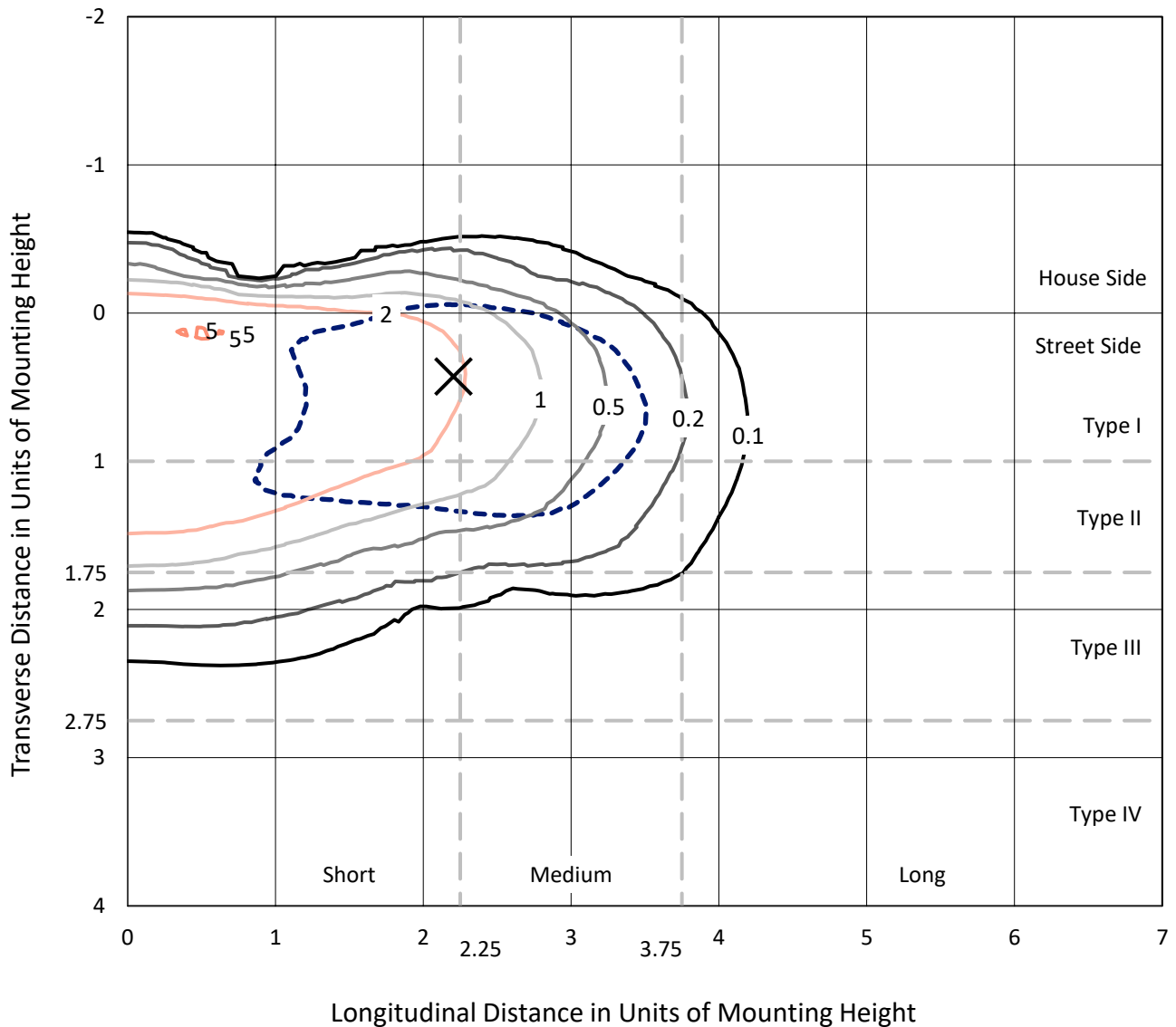
Lumens per Lamp: N/A
Luminaire Lumens: 11262.6 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9
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

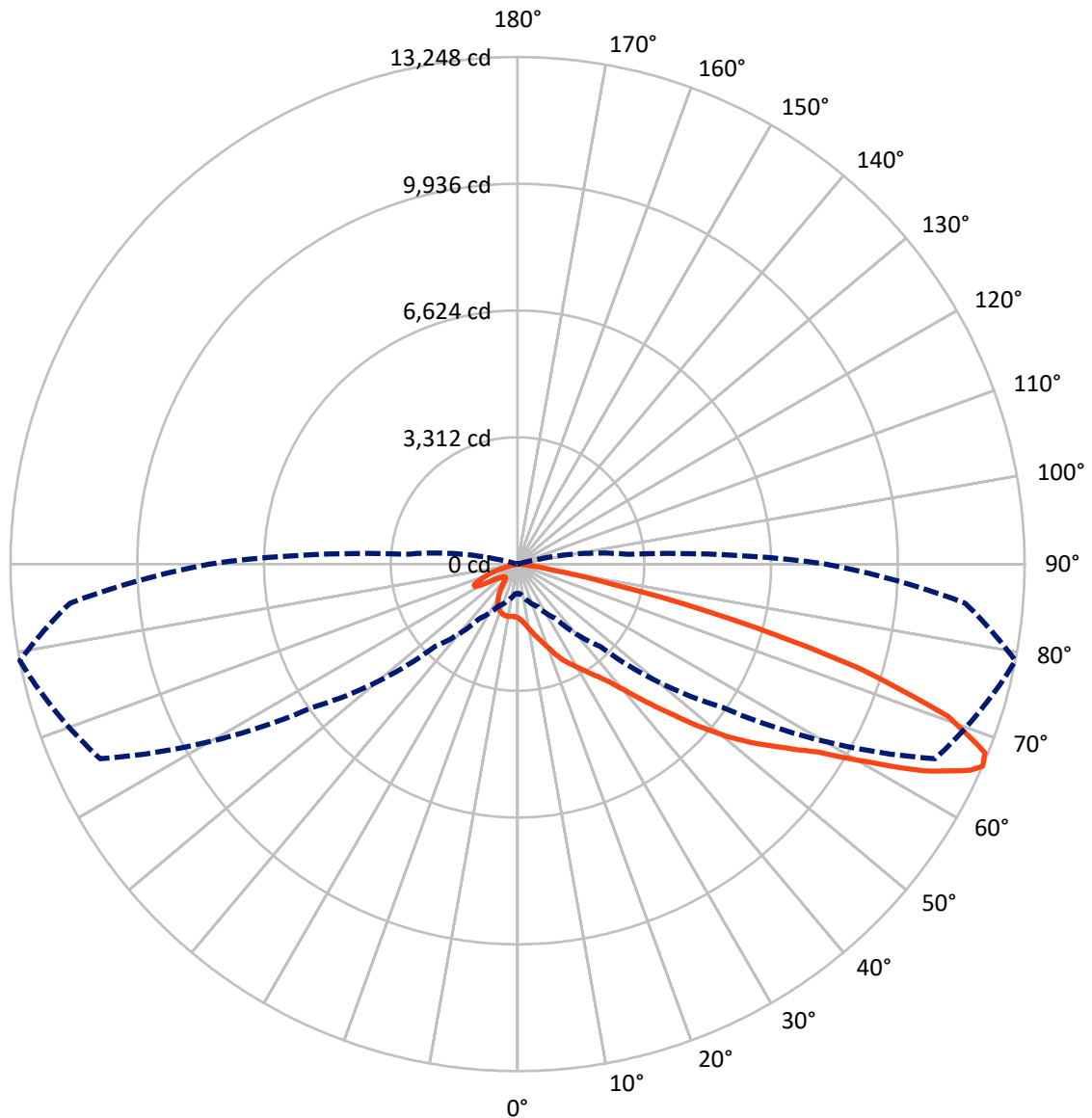
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - N/A

REPORT NUMBER: P481664
CATALOG NUMBER: IFLD-S-SA2D-740-U-T2-HSS

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	845.7	0.0	845.7
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	10416.9	0.0	10416.9
	% Fixture	92.5	0.0	92.5
Total	Lumens	11262.6	0.0	11262.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.5	1.2
10°-20°	364.7	3.2
20°-30°	605.9	5.4
30°-40°	1040.6	9.2
40°-50°	1885.2	16.7
50°-60°	2980.0	26.5
60°-70°	3032.4	26.9
70°-80°	1156.4	10.3
80°-90°	64.8	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°	11262.6	100.0
0°-180°	11262.6	100.0



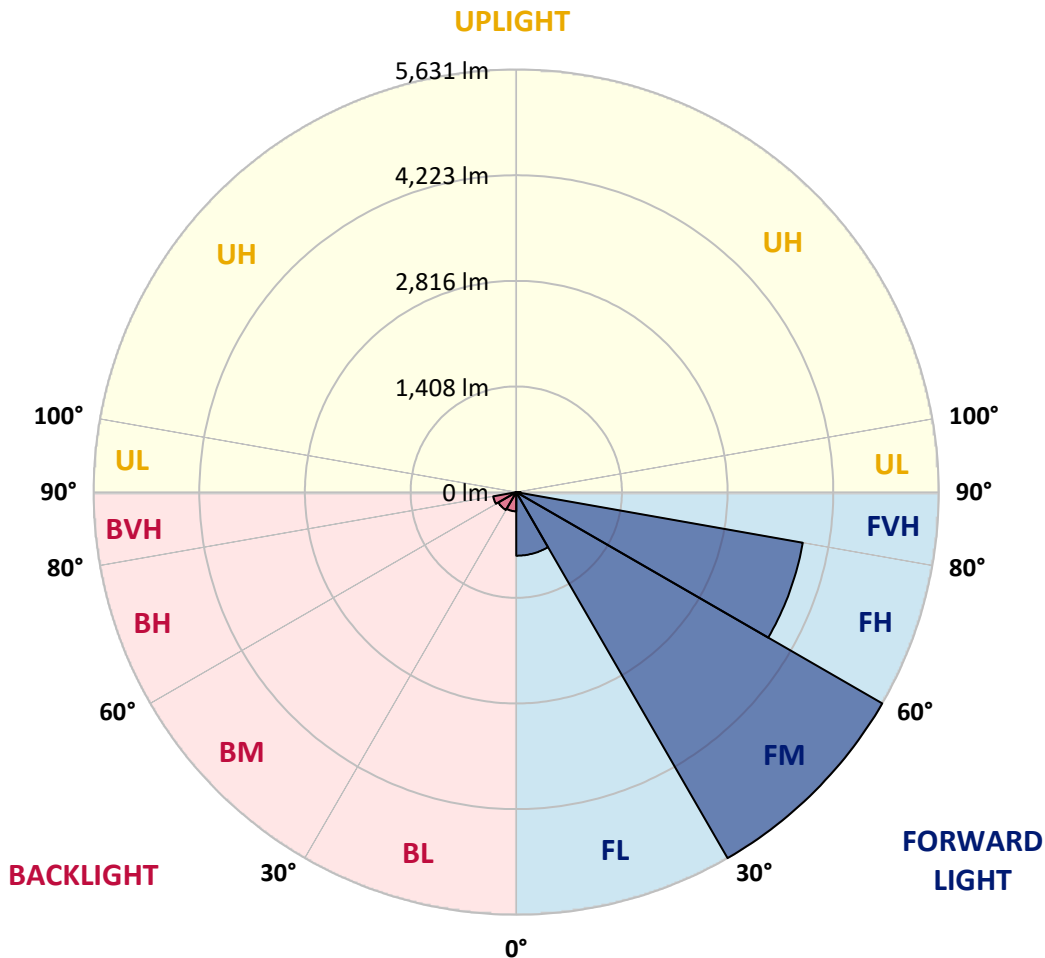
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	847.3	7.5			
FM (30°-60°)	5631.1	50.0			
FH (60°-80°)	3877.1	34.4			G2/5000
FVH (80°-90°)	61.5	0.5			G1/100
BL (0°-30°)	255.8	2.3	B1/500		
BM (30°-60°)	274.9	2.4	B1/1000		
BH (60°-80°)	311.7	2.8	B1/500		G1/500
BVH (80°-90°)	3.3	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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CATALOG NUMBER: IFLD-S-SA2D-740-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1401.2	1401.2	1401.2	1401.2	1401.2	1401.2	1401.2	1401.2	1401.2	1401.2	1401.2
2.5°	1587.0	1585.3	1578.3	1566.2	1550.5	1545.3	1522.7	1491.5	1474.1	1455.0	1446.3
5°	1696.4	1687.7	1708.5	1699.9	1703.3	1661.7	1633.9	1611.3	1545.3	1519.3	1477.6
7.5°	1720.7	1729.4	1727.6	1741.5	1755.4	1771.0	1751.9	1719.0	1653.0	1614.8	1569.6
10°	1720.7	1717.2	1731.1	1750.2	1790.1	1824.9	1877.0	1833.5	1783.2	1738.0	1656.4
12.5°	1689.4	1684.2	1698.1	1738.0	1809.2	1880.4	1937.7	1979.4	1908.2	1871.7	1765.8
15°	1593.9	1588.7	1646.0	1717.2	1811.0	1927.3	2047.1	2114.8	2066.2	2008.9	1890.8
17.5°	1475.9	1482.8	1543.6	1661.7	1811.0	1949.9	2102.7	2250.3	2243.3	2170.4	2047.1
20°	1435.9	1441.1	1501.9	1587.0	1757.1	1965.5	2189.5	2397.8	2439.5	2352.7	2191.2
22.5°	1512.3	1507.1	1512.3	1564.4	1720.7	1951.6	2246.8	2566.3	2640.9	2573.2	2380.5
25°	1772.8	1769.3	1725.9	1646.0	1699.9	1920.4	2276.3	2677.4	2849.3	2786.8	2533.3
27.5°	2154.8	2140.9	2073.2	1906.5	1797.1	1939.5	2324.9	2785.0	3031.6	2960.4	2670.5
30°	2564.5	2531.5	2443.0	2234.6	2048.8	2010.7	2352.7	2864.9	3234.8	3144.5	2790.3
32.5°	2847.6	2891.0	2863.2	2651.4	2366.6	2175.6	2397.8	2965.6	3422.3	3363.2	2995.1
35°	3285.1	3335.5	3219.1	3031.6	2745.1	2437.8	2493.3	3047.2	3710.5	3611.5	3186.1
37.5°	3837.3	3875.5	3792.1	3436.2	3134.0	2760.7	2689.5	3217.4	3958.8	3911.9	3431.0
40°	4115.1	4299.1	4181.0	3859.8	3535.1	3212.2	3014.2	3417.1	4391.1	4352.9	3769.5
42.5°	4498.8	4590.8	4530.0	4292.2	3953.6	3694.9	3415.3	3806.0	4915.5	4915.5	4227.9
45°	4905.1	4908.6	4905.1	4710.6	4410.2	4276.5	3957.1	4293.9	5479.8	5542.3	4776.6
47.5°	5238.5	5342.6	5334.0	5217.6	4985.0	4934.6	4498.8	4849.5	6188.2	6297.6	5311.4
50°	5410.4	5526.7	5561.4	5622.2	5611.8	5717.7	5090.9	5493.7	6799.4	7068.5	5999.0
52.5°	5363.5	5372.2	5585.7	5825.3	6207.3	6504.2	5804.5	6224.7	7514.8	7780.4	6530.3
55°	4979.7	4946.8	5386.0	5660.4	6450.4	6985.2	6792.5	7136.2	8072.1	8476.7	7079.0
57.5°	4137.6	4146.3	4552.6	5110.0	6269.8	7176.2	7848.1	8327.4	8853.5	9261.5	7849.9
60°	2856.2	2845.8	3300.7	3944.9	5208.9	6820.2	8455.8	9870.9	9898.7	10476.9	9233.7
62.5°	1606.1	1609.6	1955.1	2505.5	3644.5	5573.6	8426.3	11510.0	11392.0	11899.0	10806.8
65°	909.8	932.4	1170.3	1484.5	2182.5	3741.8	7247.4	12162.9	12543.1	12994.6	11761.8
66°	769.2	784.8	988.0	1225.8	1741.5	3035.1	6523.3	12036.1	12904.3	13248.1	11742.7
67.5°	595.6	616.4	786.6	972.3	1277.9	2100.9	5250.6	11405.8	12970.3	13171.7	11411.1
70°	408.0	421.9	552.1	737.9	873.4	1074.8	3139.3	9429.9	11768.7	11938.9	9917.8
72.5°	286.5	293.4	387.2	559.1	672.0	614.7	1557.5	6709.1	9006.3	9337.9	7714.4
75°	206.6	213.6	265.7	401.1	524.4	402.8	713.6	4285.2	5523.2	5783.7	4646.4
77.5°	149.3	158.0	180.6	258.7	380.3	283.0	350.7	2238.1	2604.5	2559.3	1998.5
80°	90.3	99.0	133.7	166.7	277.8	199.7	192.7	934.1	923.7	876.8	628.5
82.5°	41.7	48.6	71.2	112.9	194.5	138.9	92.0	333.4	291.7	267.4	177.1
85°	12.2	15.6	41.7	85.1	99.0	67.7	55.6	114.6	119.8	102.4	59.0
87.5°	0.0	1.7	19.1	20.8	29.5	22.6	20.8	29.5	55.6	45.1	19.1
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°	1401.2	1401.2	1401.2	1401.2	1401.2	1401.2	1401.2	1401.2	1401.2	1401.2	1401.2
2.5°	1415.1	1402.9	1373.4	1328.3	1288.3	1267.5	1238.0	1211.9	1198.1	1196.3	1194.6
5°	1449.8	1416.8	1345.6	1264.0	1203.3	1137.3	1092.1	1059.2	1027.9	998.4	1015.7
7.5°	1496.7	1444.6	1328.3	1222.4	1090.4	1005.3	925.5	878.6	850.8	824.7	821.3
10°	1569.6	1503.6	1316.1	1125.1	974.1	849.1	767.5	699.7	661.5	616.4	633.8
12.5°	1668.6	1550.5	1271.0	1036.6	842.1	710.2	593.8	484.4	423.7	376.8	378.5
15°	1767.6	1613.0	1229.3	928.9	722.3	548.7	378.5	303.9	286.5	276.1	279.5
17.5°	1864.8	1663.4	1165.1	819.5	585.1	349.0	276.1	260.4	251.8	241.3	241.3
20°	1982.9	1696.4	1085.2	718.8	402.8	258.7	236.1	225.7	211.8	197.9	199.7
22.5°	2097.5	1724.2	993.2	590.3	270.9	224.0	197.9	184.0	171.9	158.0	158.0
25°	2212.1	1732.8	873.4	423.7	218.8	178.8	154.5	135.4	123.3	111.1	112.9
27.5°	2290.2	1679.0	760.5	270.9	175.4	135.4	107.7	92.0	81.6	69.5	69.5
30°	2335.3	1580.0	639.0	191.0	132.0	92.0	64.2	48.6	38.2	29.5	27.8
32.5°	2380.5	1500.2	501.8	145.9	86.8	48.6	24.3	8.7	0.0	0.0	0.0
35°	2470.8	1409.9	336.8	81.6	29.5	1.7	0.0	0.0	0.0	0.0	0.0
37.5°	2528.1	1284.9	154.5	12.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2672.2	1222.4	38.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2906.6	1179.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3163.6	1161.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3505.6	1208.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3866.8	1335.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4262.6	1455.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4608.2	1599.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5243.7	1939.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6384.4	2607.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7669.3	3104.5	19.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8139.8	3092.4	33.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	8056.5	2922.2	33.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7624.2	2595.8	29.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	6547.6	2144.3	29.5	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4991.9	1670.3	27.8	6.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0
75°	3012.5	889.0	22.6	8.7	3.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1199.8	312.5	17.4	6.9	3.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	324.7	93.8	10.4	6.9	5.2	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	85.1	34.7	8.7	6.9	3.5	1.7	0.0	0.0	0.0	0.0	0.0
85°	33.0	13.9	6.9	5.2	5.2	3.5	1.7	0.0	0.0	0.0	0.0
87.5°	10.4	5.2	5.2	3.5	3.5	1.7	1.7	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)