

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: P481825

Luminaire Tested: **IFLD-S-SA3D-830-U-T2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481825  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-830-U-T2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

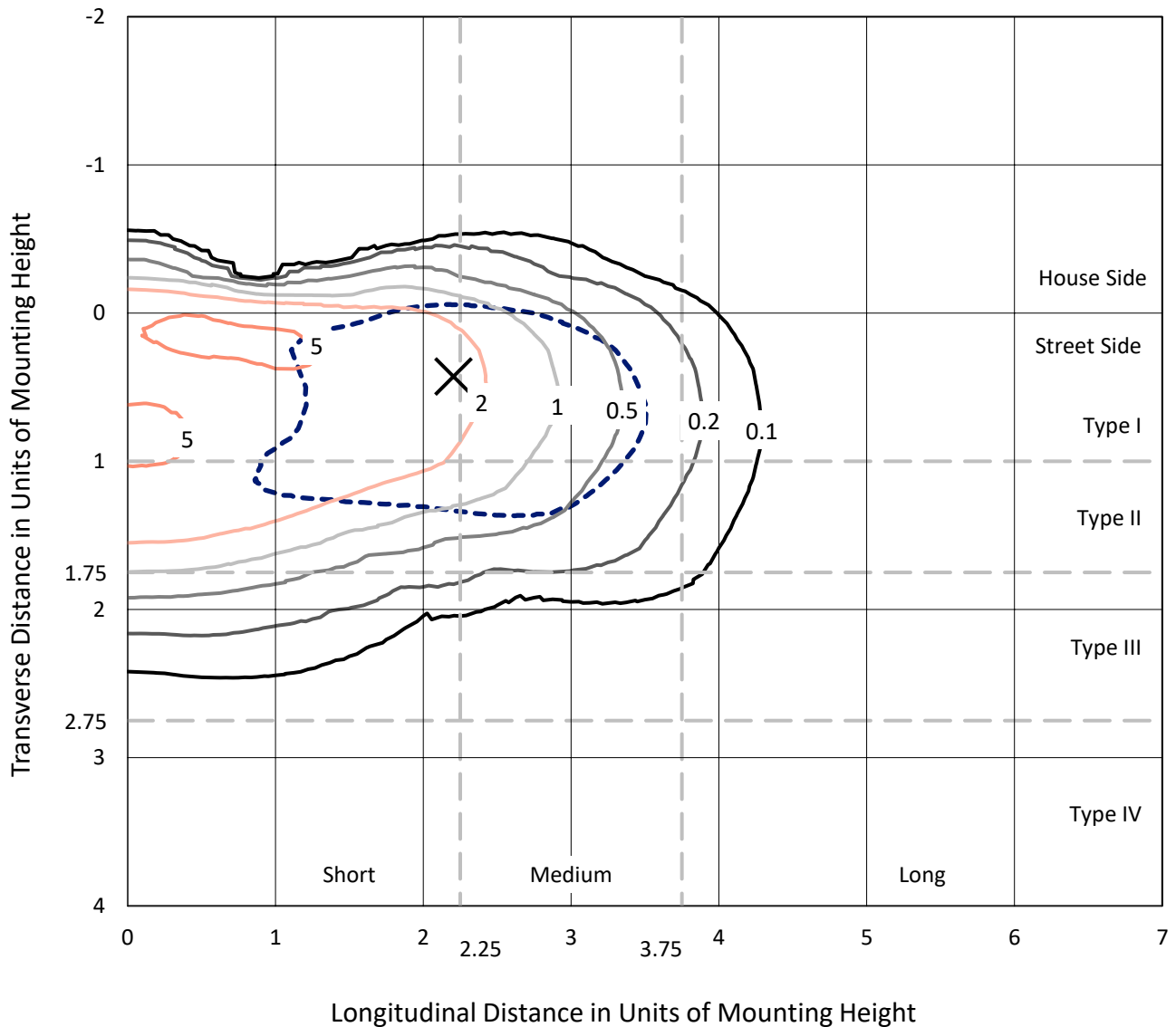
Lumens per Lamp: N/A  
Luminaire Lumens: 13336.8 lumens  
Efficiency: N/A  
Efficacy: 72.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 184.1  
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

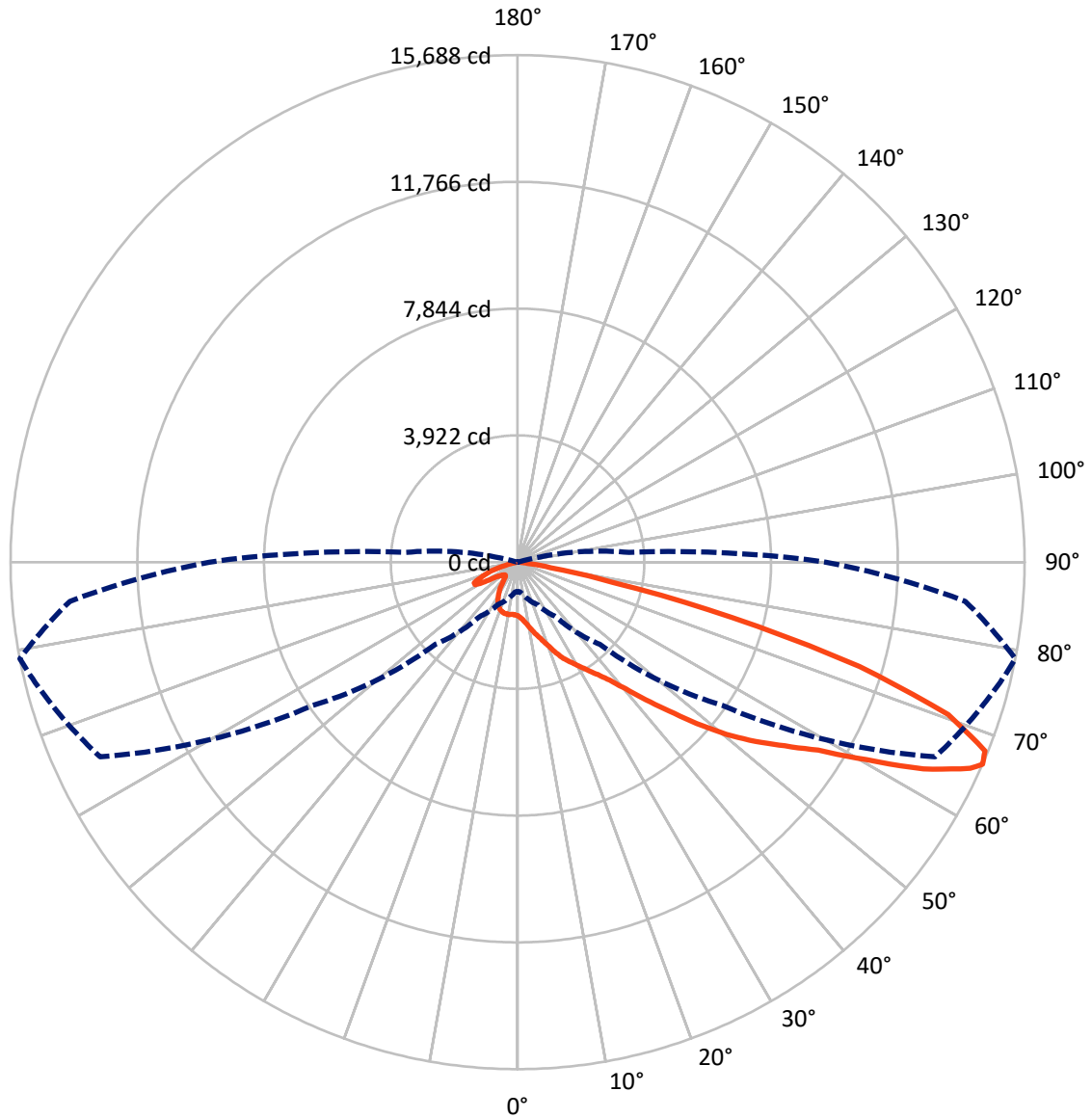
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 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
<b>House Side</b>	Lumens	1001.4	0.0	1001.4
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	12335.4	0.0	12335.4
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	13336.8	0.0	13336.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.9	1.2
10°-20°	431.9	3.2
20°-30°	717.4	5.4
30°-40°	1232.3	9.2
40°-50°	2232.4	16.7
50°-60°	3528.8	26.5
60°-70°	3590.9	26.9
70°-80°	1369.4	10.3
80°-90°	76.8	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°	13336.8	100.0
0°-180°	13336.8	100.0

**Coefficient of Utilization**

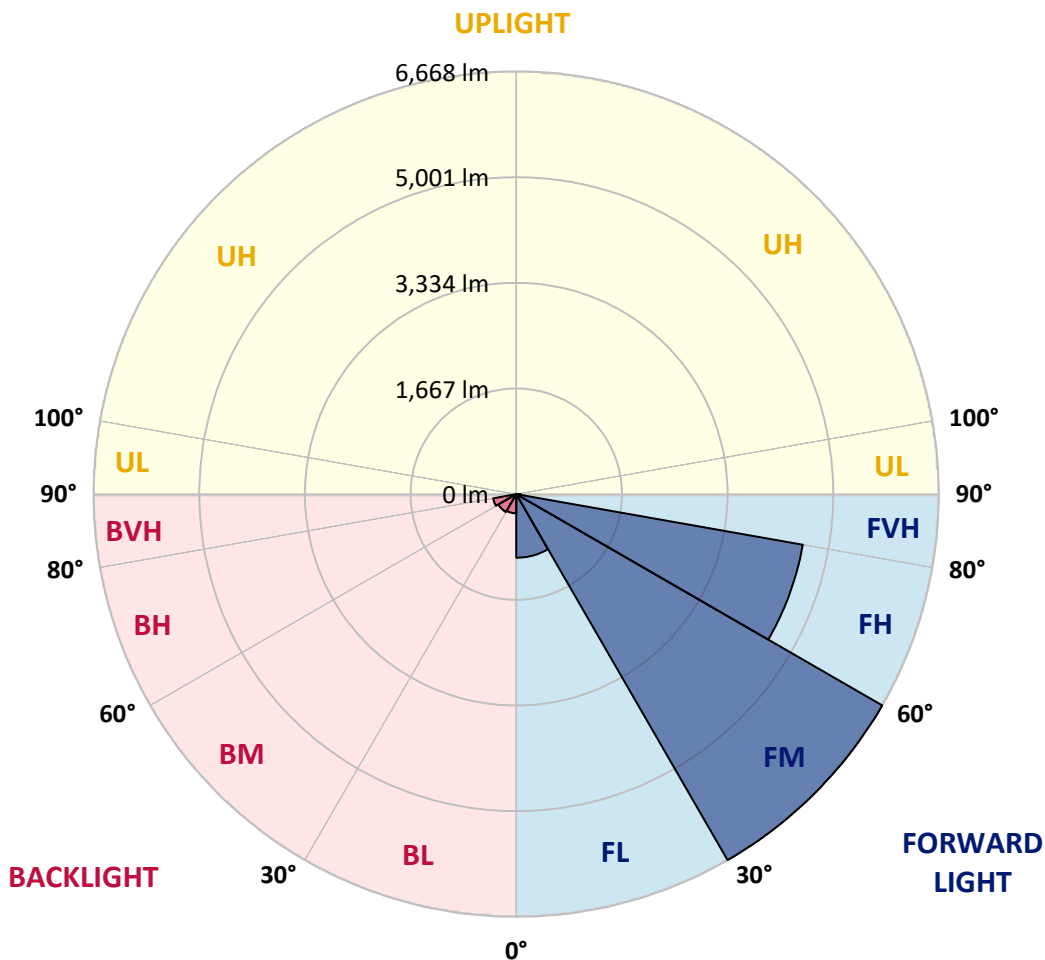


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1003.4	7.5			
FM (30°-60°)	6668.1	50.0			
FH (60°-80°)	4591.1	34.4			G2/5000
FVH (80°-90°)	72.8	0.5			G1/100
BL (0°-30°)	302.9	2.3	B1/500		
BM (30°-60°)	325.5	2.4	B1/1000		
BH (60°-80°)	369.2	2.8	B1/500		G1/500
BVH (80°-90°)	3.9	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°	1659.3	1659.3	1659.3	1659.3	1659.3	1659.3	1659.3	1659.3	1659.3	1659.3	1659.3
2.5°	1879.3	1877.2	1869.0	1854.6	1836.1	1829.9	1803.2	1766.2	1745.6	1723.0	1712.7
5°	2008.8	1998.5	2023.2	2012.9	2017.0	1967.7	1934.8	1908.0	1829.9	1799.1	1749.7
7.5°	2037.6	2047.9	2045.8	2062.2	2078.7	2097.2	2074.6	2035.5	1957.4	1912.2	1858.7
10°	2037.6	2033.5	2049.9	2072.5	2119.8	2160.9	2222.6	2171.2	2111.6	2058.1	1961.5
12.5°	2000.6	1994.4	2010.8	2058.1	2142.4	2226.7	2294.6	2343.9	2259.6	2216.5	2091.0
15°	1887.5	1881.3	1949.2	2033.5	2144.5	2282.2	2424.1	2504.3	2446.7	2378.9	2239.1
17.5°	1747.7	1755.9	1827.9	1967.7	2144.5	2309.0	2489.9	2664.7	2656.5	2570.1	2424.1
20°	1700.4	1706.5	1778.5	1879.3	2080.8	2327.5	2592.7	2839.4	2888.8	2786.0	2594.8
22.5°	1790.8	1784.7	1790.8	1852.5	2037.6	2311.0	2660.6	3038.9	3127.3	3047.1	2818.9
25°	2099.3	2095.1	2043.7	1949.2	2012.9	2274.0	2695.5	3170.5	3374.0	3300.0	2999.8
27.5°	2551.6	2535.1	2455.0	2257.6	2128.0	2296.6	2753.1	3298.0	3589.9	3505.6	3162.2
30°	3036.8	2997.8	2892.9	2646.2	2426.2	2380.9	2786.0	3392.5	3830.5	3723.6	3304.1
32.5°	3372.0	3423.4	3390.5	3139.6	2802.4	2576.3	2839.4	3511.8	4052.5	3982.6	3546.7
35°	3890.1	3949.7	3812.0	3589.9	3250.7	2886.7	2952.5	3608.4	4393.8	4276.6	3772.9
37.5°	4543.9	4589.2	4490.5	4069.0	3711.2	3269.2	3184.9	3809.9	4687.9	4632.3	4062.8
40°	4872.9	5090.9	4951.0	4570.7	4186.2	3803.7	3569.4	4046.4	5199.8	5154.6	4463.7
42.5°	5327.3	5436.3	5364.3	5082.6	4681.7	4375.3	4044.3	4506.9	5820.8	5820.8	5006.6
45°	5808.4	5812.5	5808.4	5578.1	5222.4	5064.1	4685.8	5084.7	6489.0	6563.0	5656.3
47.5°	6203.2	6326.6	6316.3	6178.5	5903.0	5843.4	5327.3	5742.6	7327.9	7457.4	6289.5
50°	6406.7	6544.5	6585.6	6657.6	6645.2	6770.7	6028.4	6505.4	8051.6	8370.3	7103.8
52.5°	6351.2	6361.5	6614.4	6898.1	7350.5	7702.1	6873.5	7371.0	8898.7	9213.3	7732.9
55°	5896.8	5857.8	6378.0	6702.8	7638.3	8271.6	8043.4	8450.5	9558.7	10037.8	8382.6
57.5°	4899.6	4909.9	5391.0	6051.0	7424.5	8497.8	9293.5	9861.0	10483.9	10967.1	9295.5
60°	3382.2	3369.9	3908.6	4671.4	6168.2	8076.3	10013.1	11688.8	11721.7	12406.4	10934.2
62.5°	1901.9	1906.0	2315.1	2966.9	4315.7	6600.0	9978.2	13629.7	13489.9	14090.3	12797.0
65°	1077.4	1104.1	1385.8	1757.9	2584.5	4430.8	8582.1	14402.8	14853.1	15387.7	13927.9
66°	910.8	929.3	1169.9	1451.6	2062.2	3594.0	7724.7	14252.7	15280.8	15687.9	13905.3
67.5°	705.2	729.9	931.4	1151.4	1513.3	2487.9	6217.6	13506.4	15358.9	15597.4	13512.5
70°	483.2	499.6	653.8	873.8	1034.2	1272.7	3717.4	11166.6	13936.1	14137.6	11744.3
72.5°	339.3	347.5	458.5	662.1	795.7	727.9	1844.3	7944.7	10664.9	11057.6	9135.2
75°	244.7	252.9	314.6	475.0	620.9	477.0	845.0	5074.4	6540.4	6848.8	5502.1
77.5°	176.8	187.1	213.8	306.4	450.3	335.1	415.3	2650.3	3084.1	3030.7	2366.5
80°	106.9	117.2	158.3	197.4	329.0	236.4	228.2	1106.2	1093.8	1038.3	744.3
82.5°	49.3	57.6	84.3	133.6	230.3	164.5	109.0	394.8	345.4	316.6	209.7
85°	14.4	18.5	49.3	100.7	117.2	80.2	65.8	135.7	141.9	121.3	69.9
87.5°	0.0	2.1	22.6	24.7	35.0	26.7	24.7	35.0	65.8	53.5	22.6
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°	1659.3	1659.3	1659.3	1659.3	1659.3	1659.3	1659.3	1659.3	1659.3	1659.3	1659.3
2.5°	1675.7	1661.3	1626.4	1572.9	1525.6	1500.9	1466.0	1435.1	1418.7	1416.6	1414.6
5°	1716.8	1677.8	1593.5	1496.8	1424.9	1346.7	1293.3	1254.2	1217.2	1182.2	1202.8
7.5°	1772.3	1710.7	1572.9	1447.5	1291.2	1190.5	1095.9	1040.4	1007.5	976.6	972.5
10°	1858.7	1780.6	1558.5	1332.3	1153.5	1005.4	908.8	828.6	783.4	729.9	750.5
12.5°	1975.9	1836.1	1505.0	1227.5	997.2	840.9	703.2	573.6	501.7	446.2	448.2
15°	2093.1	1910.1	1455.7	1100.0	855.3	649.7	448.2	359.8	339.3	326.9	331.0
17.5°	2208.2	1969.7	1379.6	970.5	692.9	413.3	326.9	308.4	298.1	285.8	285.8
20°	2348.0	2008.8	1285.0	851.2	477.0	306.4	279.6	267.3	250.8	234.4	236.4
22.5°	2483.7	2041.7	1176.1	699.1	320.7	265.2	234.4	217.9	203.6	187.1	187.1
25°	2619.4	2052.0	1034.2	501.7	259.1	211.8	183.0	160.4	146.0	131.6	133.6
27.5°	2712.0	1988.2	900.6	320.7	207.7	160.4	127.5	109.0	96.6	82.2	82.2
30°	2765.4	1871.0	756.6	226.2	156.3	109.0	76.1	57.6	45.2	35.0	32.9
32.5°	2818.9	1776.5	594.2	172.7	102.8	57.6	28.8	10.3	0.0	0.0	0.0
35°	2925.8	1669.5	398.9	96.6	35.0	2.1	0.0	0.0	0.0	0.0	0.0
37.5°	2993.7	1521.5	183.0	14.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3164.3	1447.5	45.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3441.9	1396.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3746.2	1375.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4151.2	1431.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4578.9	1581.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5047.7	1723.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5456.8	1893.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6209.4	2296.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7560.2	3088.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9081.7	3676.3	22.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9638.9	3661.9	39.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	9540.2	3460.4	39.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9028.2	3073.8	35.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7753.5	2539.3	35.0	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5911.2	1977.9	32.9	8.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	3567.3	1052.7	26.7	10.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1420.8	370.1	20.6	8.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	384.5	111.0	12.3	8.2	6.2	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	100.7	41.1	10.3	8.2	4.1	2.1	0.0	0.0	0.0	0.0	0.0
85°	39.1	16.4	8.2	6.2	6.2	4.1	2.1	0.0	0.0	0.0	0.0
87.5°	12.3	6.2	6.2	4.1	4.1	2.1	2.1	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)