

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: P481731

Luminaire Tested: **IFLD-L-SA7B-750-U-T2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P481731
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-750-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

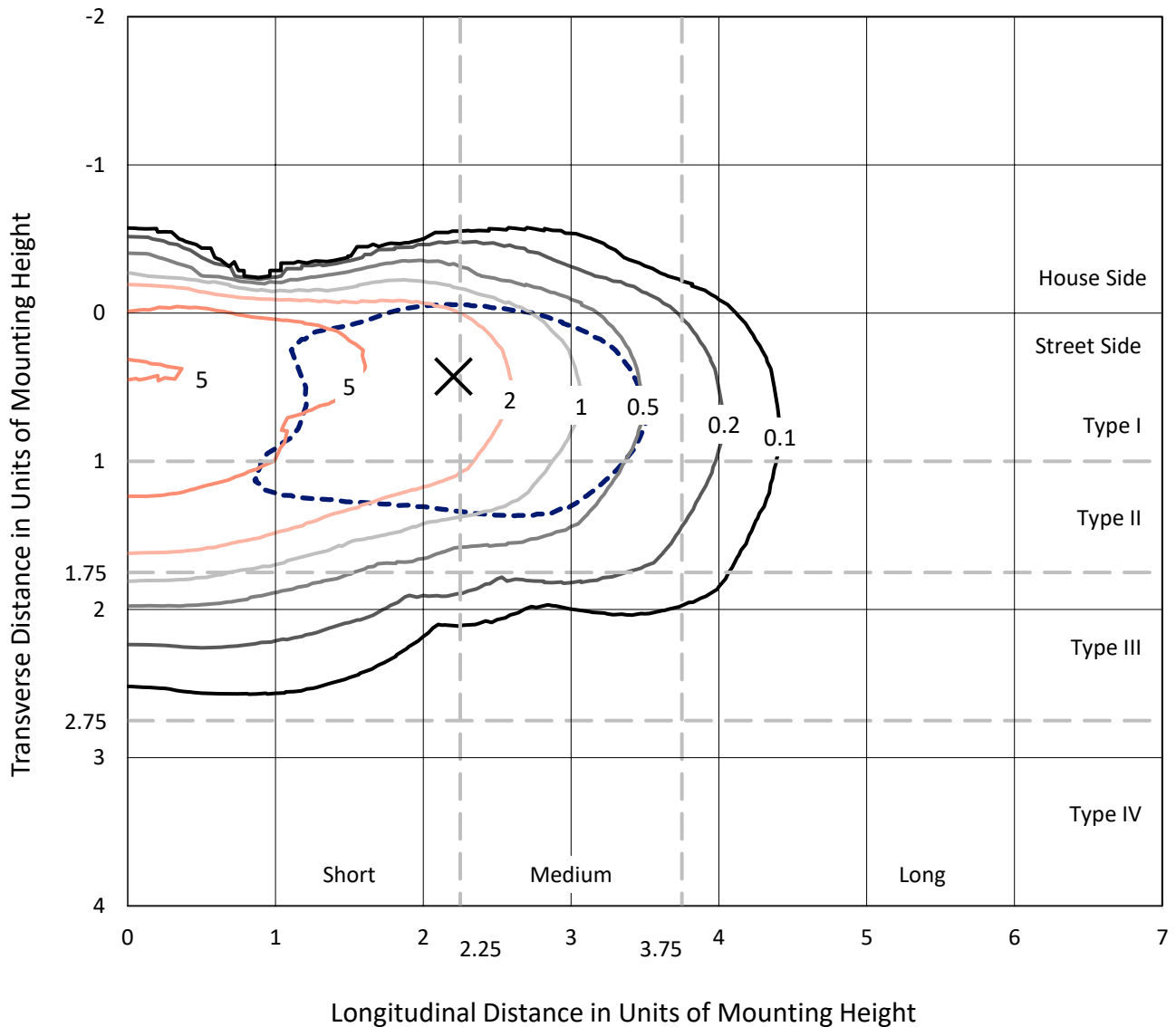
Lumens per Lamp: N/A
Luminaire Lumens: 26232.9 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 281
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

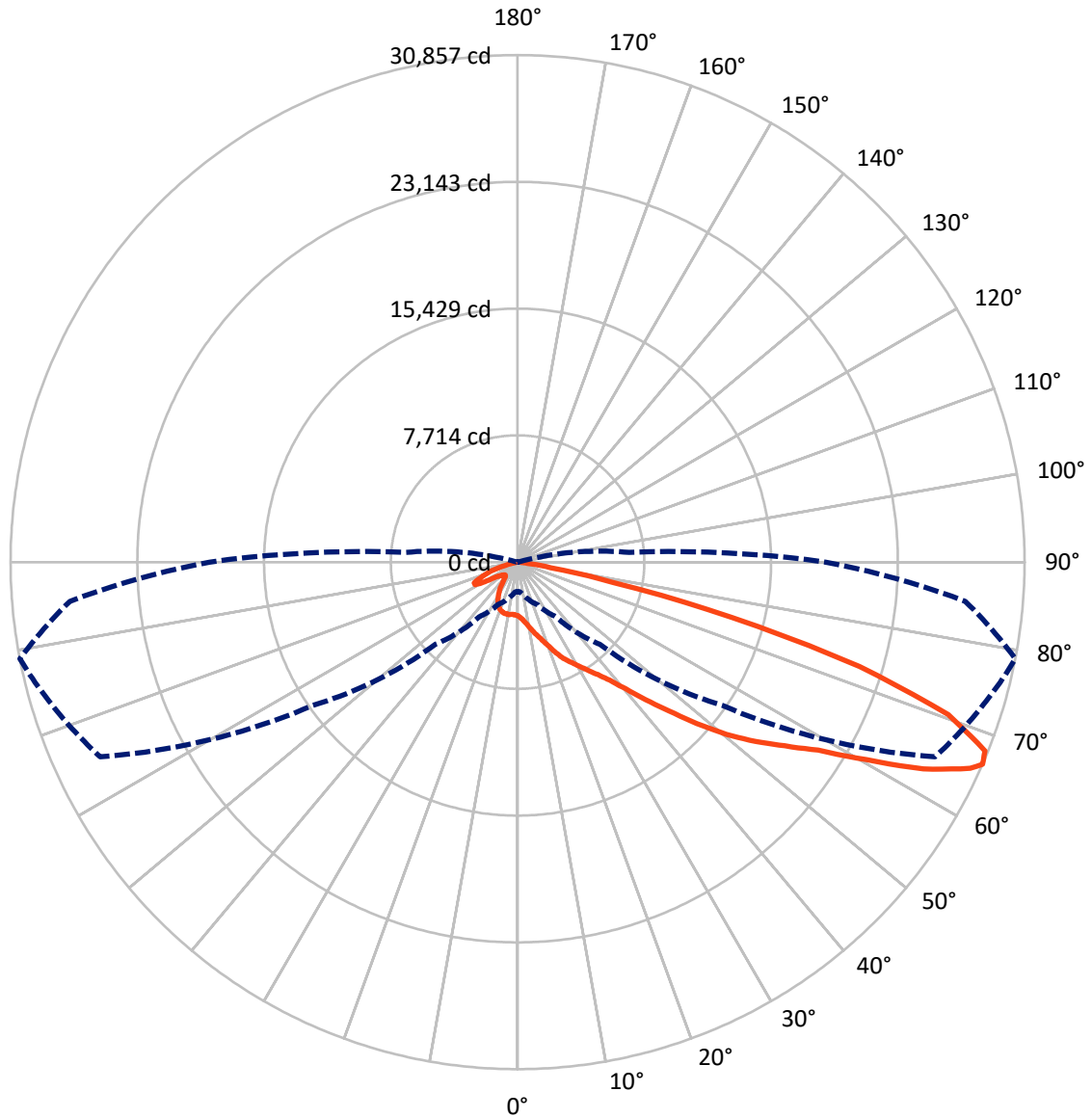
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	1969.7	0.0	1969.7
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	24263.2	0.0	24263.2
	% Fixture	92.5	0.0	92.5
Total	Lumens	26232.9	0.0	26232.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.6	1.2
10°-20°	849.5	3.2
20°-30°	1411.2	5.4
30°-40°	2423.9	9.2
40°-50°	4391.1	16.7
50°-60°	6941.1	26.5
60°-70°	7063.1	26.9
70°-80°	2693.5	10.3
80°-90°	151.0	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°	26232.9	100.0
0°-180°	26232.9	100.0

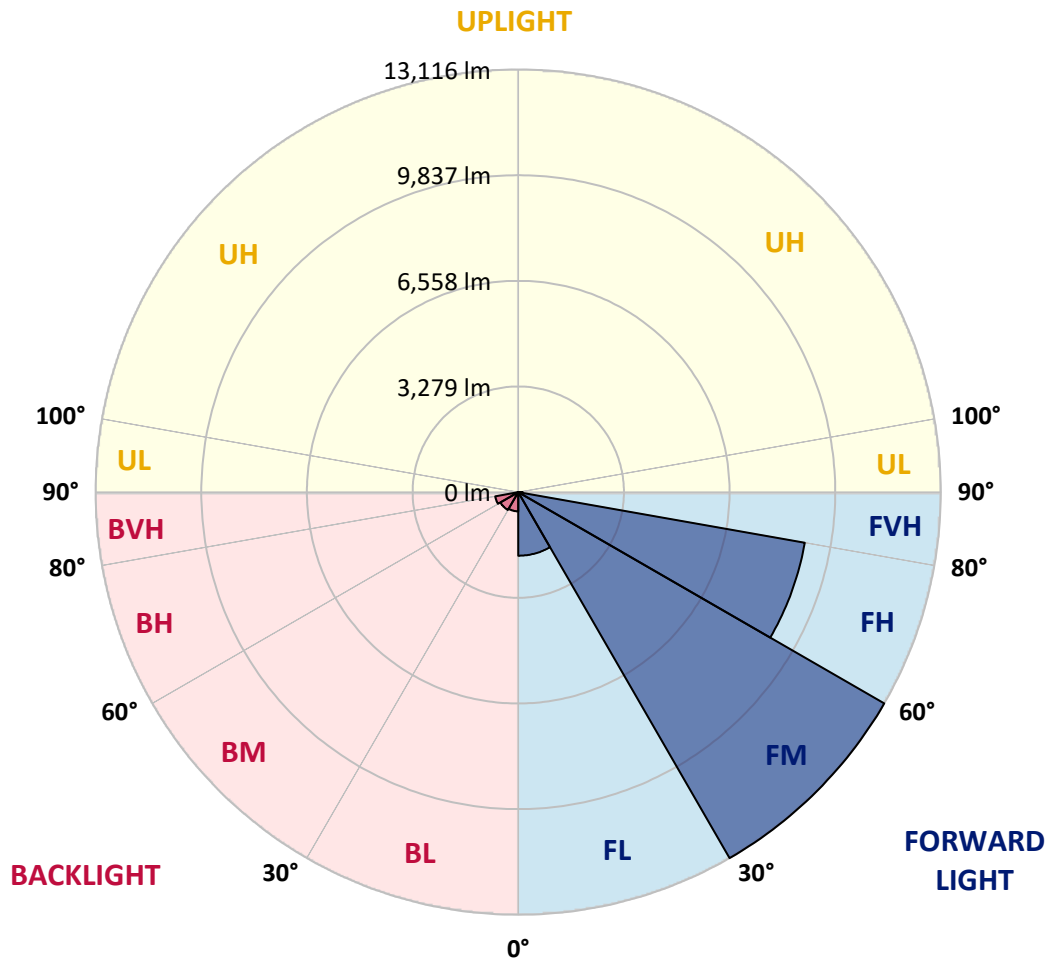


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1973.6	7.5			
FM (30°-60°)	13115.9	50.0			
FH (60°-80°)	9030.4	34.4			G4/12000
FVH (80°-90°)	143.3	0.5			G2/225
BL (0°-30°)	595.7	2.3	B2/1000		
BM (30°-60°)	640.2	2.4	B1/1000		
BH (60°-80°)	726.1	2.8	B2/1000		G2/1000
BVH (80°-90°)	7.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3263.7	3263.7	3263.7	3263.7	3263.7	3263.7	3263.7	3263.7	3263.7	3263.7	3263.7
2.5°	3696.4	3692.4	3676.2	3647.9	3611.5	3599.4	3546.8	3474.0	3433.5	3389.1	3368.8
5°	3951.2	3931.0	3979.5	3959.3	3967.4	3870.3	3805.6	3753.0	3599.4	3538.7	3441.6
7.5°	4007.8	4028.0	4024.0	4056.4	4088.7	4125.1	4080.6	4003.8	3850.1	3761.1	3656.0
10°	4007.8	3999.7	4032.1	4076.6	4169.6	4250.5	4371.8	4270.7	4153.4	4048.3	3858.2
12.5°	3935.0	3922.9	3955.3	4048.3	4214.1	4379.9	4513.4	4610.4	4444.6	4359.7	4113.0
15°	3712.6	3700.5	3833.9	3999.7	4218.1	4489.1	4768.1	4925.9	4812.6	4679.2	4404.2
17.5°	3437.6	3453.8	3595.3	3870.3	4218.1	4541.7	4897.6	5241.3	5225.1	5055.3	4768.1
20°	3344.6	3356.7	3498.3	3696.4	4092.8	4578.1	5099.8	5585.1	5682.1	5479.9	5103.8
22.5°	3522.5	3510.4	3522.5	3643.8	4007.8	4545.7	5233.2	5977.4	6151.3	5993.5	5544.6
25°	4129.2	4121.1	4020.0	3833.9	3959.3	4472.9	5302.0	6236.2	6636.6	6491.0	5900.5
27.5°	5018.9	4986.5	4828.8	4440.6	4185.8	4517.4	5415.2	6486.9	7061.2	6895.4	6220.0
30°	5973.3	5896.5	5690.2	5204.9	4772.2	4683.2	5479.9	6673.0	7534.4	7324.1	6499.1
32.5°	6632.5	6733.6	6668.9	6175.5	5512.3	5067.4	5585.1	6907.5	7971.2	7833.7	6976.3
35°	7651.7	7769.0	7498.0	7061.2	6393.9	5678.1	5807.5	7097.6	8642.5	8412.0	7421.2
37.5°	8937.7	9026.7	8832.6	8003.5	7299.8	6430.3	6264.5	7493.9	9220.8	9111.6	7991.4
40°	9584.8	10013.5	9738.5	8990.3	8234.0	7481.8	7020.8	7959.0	10227.8	10138.9	8780.0
42.5°	10478.6	10692.9	10551.4	9997.3	9208.7	8606.1	7955.0	8864.9	11449.2	11449.2	9847.7
45°	11424.9	11433.0	11424.9	10972.0	10272.3	9960.9	9216.8	10001.4	12763.6	12909.2	11125.7
47.5°	12201.4	12444.1	12423.9	12152.9	11611.0	11493.7	10478.6	11295.5	14413.6	14668.4	12371.3
50°	12601.8	12872.8	12953.6	13095.2	13070.9	13317.6	11857.7	12795.9	15837.2	16464.0	13972.8
52.5°	12492.6	12512.8	13010.3	13568.4	14458.1	15149.7	13519.8	14498.5	17503.4	18122.2	15210.3
55°	11598.8	11522.0	12545.2	13184.2	15024.3	16269.9	15821.0	16621.8	18801.6	19743.9	16488.3
57.5°	9637.4	9657.6	10604.0	11902.1	14603.7	16714.8	18279.9	19396.1	20621.5	21571.9	18283.9
60°	6652.7	6628.5	7688.1	9188.5	12132.7	15885.7	19695.4	22991.4	23056.1	24402.8	21507.2
62.5°	3740.9	3749.0	4553.8	5835.8	8488.8	12982.0	19626.6	26809.2	26534.2	27715.1	25171.2
65°	2119.2	2171.7	2725.8	3457.8	5083.6	8715.3	16880.6	28329.8	29215.5	30267.0	27395.6
66°	1791.6	1828.0	2301.2	2855.2	4056.4	7069.3	15194.1	28034.6	30056.7	30857.4	27351.1
67.5°	1387.2	1435.7	1832.0	2264.8	2976.5	4893.5	12229.7	26566.5	30210.3	30679.5	26578.6
70°	950.4	982.7	1286.1	1718.8	2034.2	2503.4	7312.0	21964.2	27411.7	27808.1	23100.6
72.5°	667.3	683.5	901.9	1302.2	1565.1	1431.7	3627.7	15626.9	20977.4	21749.8	17968.5
75°	481.3	497.4	618.8	934.2	1221.4	938.3	1662.2	9981.1	12864.7	13471.3	10822.3
77.5°	347.8	368.0	420.6	602.6	885.7	659.2	816.9	5213.0	6066.3	5961.2	4654.9
80°	210.3	230.5	311.4	388.2	647.1	465.1	448.9	2175.8	2151.5	2042.3	1464.0
82.5°	97.1	113.2	165.8	262.9	453.0	323.5	214.3	776.5	679.4	622.8	412.5
85°	28.3	36.4	97.1	198.2	230.5	157.7	129.4	266.9	279.1	238.6	137.5
87.5°	0.0	4.0	44.5	48.5	68.8	52.6	48.5	68.8	129.4	105.1	44.5
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°	3263.7	3263.7	3263.7	3263.7	3263.7	3263.7	3263.7	3263.7	3263.7	3263.7	3263.7
2.5°	3296.0	3267.7	3199.0	3093.8	3000.8	2952.3	2883.5	2822.9	2790.5	2786.5	2782.4
5°	3376.9	3300.1	3134.3	2944.2	2802.6	2649.0	2543.8	2467.0	2394.2	2325.4	2365.9
7.5°	3486.1	3364.8	3093.8	2847.1	2539.8	2341.6	2155.6	2046.4	1981.7	1921.0	1912.9
10°	3656.0	3502.3	3065.5	2620.7	2268.8	1977.6	1787.5	1629.8	1540.8	1435.7	1476.1
12.5°	3886.5	3611.5	2960.4	2414.4	1961.4	1654.1	1383.1	1128.3	986.8	877.6	881.6
15°	4117.0	3757.1	2863.3	2163.7	1682.4	1278.0	881.6	707.7	667.3	643.0	651.1
17.5°	4343.5	3874.4	2713.7	1908.9	1362.9	812.9	643.0	606.6	586.4	562.1	562.1
20°	4618.5	3951.2	2527.6	1674.3	938.3	602.6	550.0	525.7	493.4	461.0	465.1
22.5°	4885.4	4015.9	2313.3	1375.0	630.9	521.7	461.0	428.7	400.4	368.0	368.0
25°	5152.3	4036.1	2034.2	986.8	509.6	416.6	359.9	315.4	287.1	258.8	262.9
27.5°	5334.3	3910.8	1771.4	630.9	408.5	315.4	250.7	214.3	190.1	161.8	161.8
30°	5439.5	3680.2	1488.3	444.9	307.4	214.3	149.6	113.2	89.0	68.8	64.7
32.5°	5544.6	3494.2	1168.8	339.7	202.2	113.2	56.6	20.2	0.0	0.0	0.0
35°	5754.9	3283.9	784.6	190.1	68.8	4.0	0.0	0.0	0.0	0.0	0.0
37.5°	5888.4	2992.7	359.9	28.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6224.1	2847.1	89.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6770.0	2746.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7368.6	2705.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	8165.3	2814.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	9006.5	3110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9928.6	3389.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10733.4	3724.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	12213.6	4517.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	14870.6	6074.4	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	17863.3	7231.1	44.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	18959.3	7202.8	76.8	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	18765.2	6806.4	76.8	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	17758.2	6046.1	68.8	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	15250.8	4994.6	68.8	12.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	11627.1	3890.5	64.7	16.2	4.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	7016.7	2070.6	52.6	20.2	8.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2794.6	728.0	40.4	16.2	8.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	756.3	218.4	24.3	16.2	12.1	4.0	0.0	0.0	0.0	0.0	0.0
82.5°	198.2	80.9	20.2	16.2	8.1	4.0	0.0	0.0	0.0	0.0	0.0
85°	76.8	32.4	16.2	12.1	12.1	8.1	4.0	0.0	0.0	0.0	0.0
87.5°	24.3	12.1	12.1	8.1	8.1	4.0	4.0	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)