

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: P481684

Luminaire Tested: **IFLD-S-SA6D-740-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481684
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-740-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (96) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

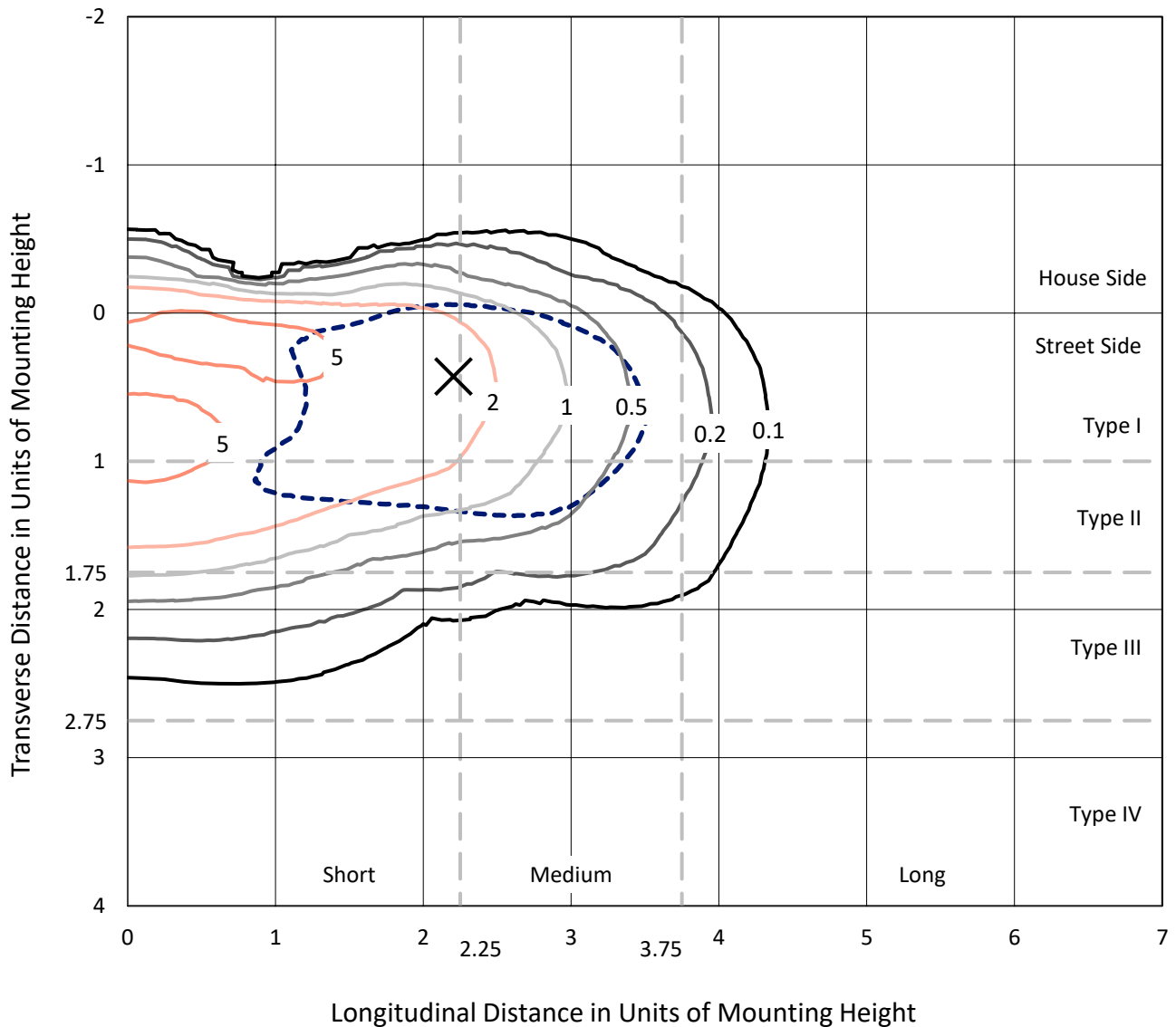
Lumens per Lamp: N/A
Luminaire Lumens: 32926 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 368.2
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

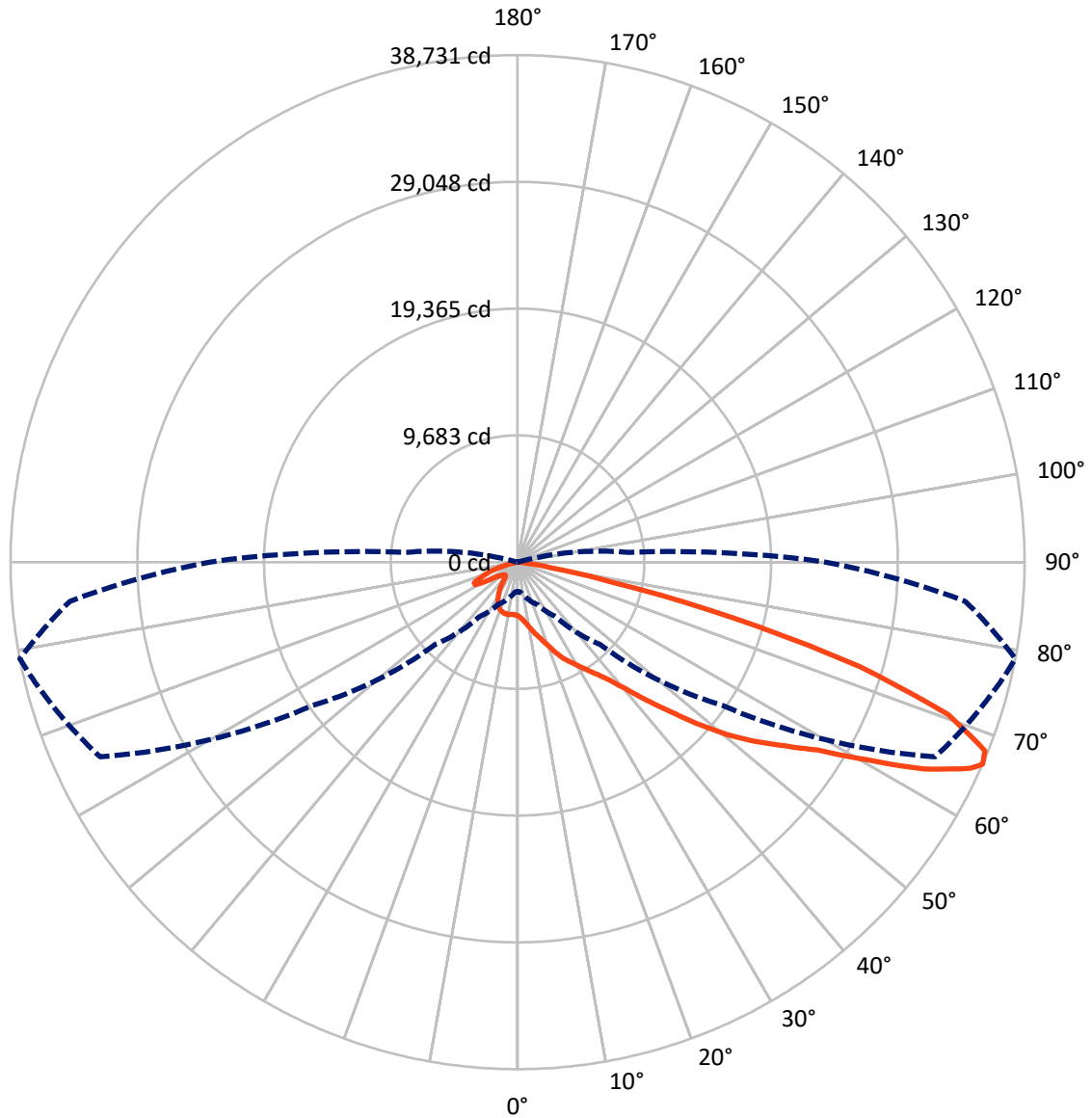
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 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	2472.3	0.0	2472.3
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	30453.7	0.0	30453.7
	% Fixture	92.5	0.0	92.5
Total	Lumens	32926.0	0.0	32926.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.4	1.2
10°-20°	1066.2	3.2
20°-30°	1771.2	5.4
30°-40°	3042.3	9.2
40°-50°	5511.5	16.7
50°-60°	8712.0	26.5
60°-70°	8865.2	26.9
70°-80°	3380.7	10.3
80°-90°	189.5	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°	32926.0	100.0
0°-180°	32926.0	100.0



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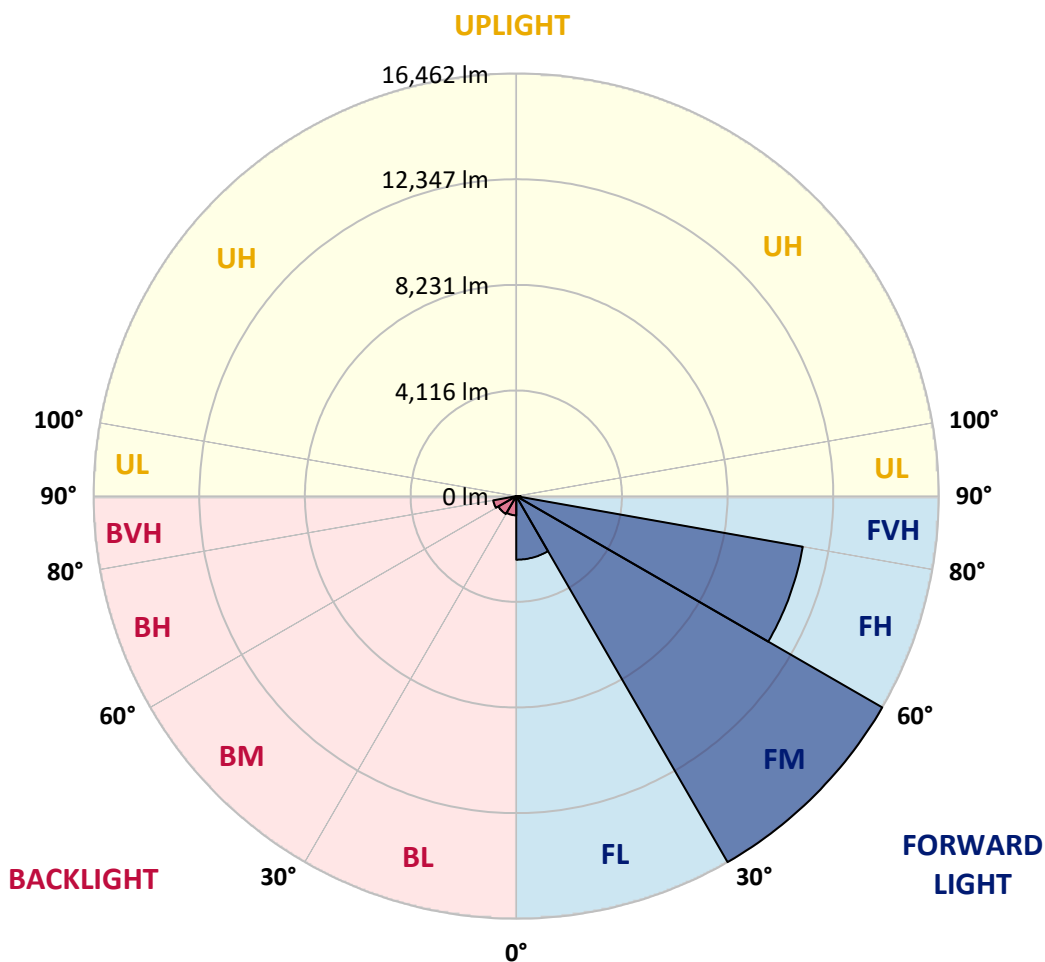
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2477.1	7.5			
FM (30°-60°)	16462.3	50.0			
FH (60°-80°)	11334.5	34.4			G4/12000
FVH (80°-90°)	179.8	0.5			G2/225
BL (0°-30°)	747.7	2.3	B2/1000		
BM (30°-60°)	803.5	2.4	B1/1000		
BH (60°-80°)	911.4	2.8	B2/1000		G2/1000
BVH (80°-90°)	9.7	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°	4096.4	4096.4	4096.4	4096.4	4096.4	4096.4	4096.4	4096.4	4096.4	4096.4	4096.4
2.5°	4639.5	4634.5	4614.2	4578.6	4532.9	4517.7	4451.7	4360.4	4309.6	4253.8	4228.4
5°	4959.3	4933.9	4994.9	4969.5	4979.6	4857.8	4776.6	4710.6	4517.7	4441.6	4319.7
7.5°	5030.4	5055.8	5050.7	5091.3	5131.9	5177.6	5121.8	5025.3	4832.4	4720.8	4588.8
10°	5030.4	5020.2	5060.9	5116.7	5233.4	5335.0	5487.2	5360.3	5213.1	5081.2	4842.6
12.5°	4939.0	4923.8	4964.4	5081.2	5289.3	5497.4	5664.9	5786.7	5578.6	5472.0	5162.4
15°	4659.8	4644.6	4812.1	5020.2	5294.3	5634.4	5984.7	6182.7	6040.5	5873.0	5527.8
17.5°	4314.7	4335.0	4512.6	4857.8	5294.3	5700.4	6147.1	6578.6	6558.3	6345.1	5984.7
20°	4197.9	4213.1	4390.8	4639.5	5137.0	5746.1	6400.9	7010.1	7131.9	6878.1	6406.0
22.5°	4421.3	4406.0	4421.3	4573.5	5030.4	5705.5	6568.4	7502.4	7720.7	7522.7	6959.3
25°	5182.7	5172.5	5045.6	4812.1	4969.5	5614.1	6654.7	7827.3	8329.8	8147.1	7406.0
27.5°	6299.4	6258.8	6060.8	5573.5	5253.7	5670.0	6796.9	8142.0	8862.8	8654.7	7807.0
30°	7497.4	7400.9	7142.0	6532.9	5989.8	5878.1	6878.1	8375.5	9456.7	9192.8	8157.3
32.5°	8324.8	8451.7	8370.5	7751.2	6918.7	6360.3	7010.1	8669.9	10005.0	9832.4	8756.2
35°	9603.9	9751.1	9411.0	8862.8	8025.3	7126.8	7289.2	8908.5	10847.6	10558.2	9314.6
37.5°	11218.1	11329.8	11086.2	10045.6	9162.3	8071.0	7862.8	9406.0	11573.5	11436.4	10030.3
40°	12030.3	12568.4	12223.2	11284.1	10334.9	9390.7	8812.1	9989.7	12837.4	12725.7	11020.2
42.5°	13152.1	13421.2	13243.5	12548.1	11558.2	10801.9	9984.6	11126.8	14370.4	14370.4	12360.3
45°	14339.9	14350.1	14339.9	13771.4	12893.2	12502.4	11568.4	12553.1	16020.1	16202.8	13964.3
47.5°	15314.5	15619.1	15593.7	15253.6	14573.4	14426.2	13152.1	14177.5	18091.1	18410.9	15527.7
50°	15817.1	16157.2	16258.7	16436.3	16405.9	16715.5	14883.1	16060.7	19877.9	20664.7	17537.9
52.5°	15680.0	15705.4	16329.7	17030.2	18147.0	19015.0	16969.3	18197.7	21969.3	22745.9	19091.1
55°	14558.2	14461.7	15746.0	16548.0	18857.6	20421.1	19857.6	20862.7	23598.7	24781.4	20695.2
57.5°	12096.3	12121.7	13309.5	14938.9	18329.7	20979.4	22943.9	24344.9	25882.9	27075.8	22949.0
60°	8350.1	8319.7	9649.6	11532.8	15228.2	19938.8	24720.5	28857.5	28938.7	30629.1	26994.6
62.5°	4695.4	4705.5	5715.7	7324.8	10654.7	16294.2	24634.2	33649.3	33304.1	34786.4	31593.5
65°	2659.9	2725.9	3421.3	4340.0	6380.6	10938.9	21187.6	35557.9	36669.6	37989.4	34385.4
66°	2248.7	2294.4	2888.3	3583.7	5091.3	8873.0	19070.8	35187.4	37725.4	38730.5	34329.5
67.5°	1741.1	1802.0	2299.5	2842.6	3736.0	6142.1	15350.1	33344.8	37918.3	38507.1	33360.0
70°	1192.9	1233.5	1614.2	2157.3	2553.3	3142.1	9177.5	27568.2	34405.7	34903.1	28994.6
72.5°	837.6	857.9	1132.0	1634.5	1964.4	1796.9	4553.2	19614.0	26329.6	27299.1	22553.0
75°	604.1	624.4	776.6	1172.6	1533.0	1177.7	2086.3	12527.8	16147.0	16908.4	13583.6
77.5°	436.5	461.9	527.9	756.3	1111.7	827.4	1025.4	6543.1	7614.1	7482.1	5842.6
80°	264.0	289.3	390.9	487.3	812.2	583.7	563.4	2730.9	2700.5	2563.4	1837.5
82.5°	121.8	142.1	208.1	329.9	568.5	406.1	269.0	974.6	852.8	781.7	517.8
85°	35.5	45.7	121.8	248.7	289.3	198.0	162.4	335.0	350.2	299.5	172.6
87.5°	0.0	5.1	55.8	60.9	86.3	66.0	60.9	86.3	162.4	132.0	55.8
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°	4096.4	4096.4	4096.4	4096.4	4096.4	4096.4	4096.4	4096.4	4096.4	4096.4	4096.4
2.5°	4137.0	4101.5	4015.2	3883.2	3766.5	3705.5	3619.2	3543.1	3502.5	3497.4	3492.3
5°	4238.5	4142.1	3934.0	3695.4	3517.7	3324.8	3192.9	3096.4	3005.0	2918.7	2969.5
7.5°	4375.6	4223.3	3883.2	3573.6	3187.8	2939.0	2705.5	2568.5	2487.3	2411.1	2401.0
10°	4588.8	4395.9	3847.7	3289.3	2847.7	2482.2	2243.6	2045.7	1934.0	1802.0	1852.8
12.5°	4878.1	4532.9	3715.7	3030.4	2461.9	2076.1	1736.0	1416.2	1238.6	1101.5	1106.6
15°	5167.4	4715.7	3593.9	2715.7	2111.6	1604.0	1106.6	888.3	837.6	807.1	817.2
17.5°	5451.7	4862.9	3406.0	2395.9	1710.6	1020.3	807.1	761.4	736.0	705.6	705.6
20°	5796.9	4959.3	3172.5	2101.5	1177.7	756.3	690.3	659.9	619.3	578.7	583.7
22.5°	6131.9	5040.5	2903.5	1725.9	791.9	654.8	578.7	538.1	502.5	461.9	461.9
25°	6466.9	5065.9	2553.3	1238.6	639.6	522.8	451.8	395.9	360.4	324.9	329.9
27.5°	6695.3	4908.6	2223.3	791.9	512.7	395.9	314.7	269.0	238.6	203.0	203.0
30°	6827.3	4619.2	1868.0	558.4	385.8	269.0	187.8	142.1	111.7	86.3	81.2
32.5°	6959.3	4385.7	1467.0	426.4	253.8	142.1	71.1	25.4	0.0	0.0	0.0
35°	7223.3	4121.8	984.8	238.6	86.3	5.1	0.0	0.0	0.0	0.0	0.0
37.5°	7390.8	3756.3	451.8	35.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7812.1	3573.6	111.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	8497.4	3446.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	9248.6	3395.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	10248.6	3533.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	11304.4	3903.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	12461.8	4253.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	13471.9	4675.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	15329.8	5670.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	18664.7	7624.3	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	22421.0	9076.0	55.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	23796.7	9040.5	96.4	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	23553.0	8543.0	96.4	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	22289.1	7588.7	86.3	10.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	19141.9	6269.0	86.3	15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	14593.7	4883.2	81.2	20.3	5.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	8807.0	2599.0	66.0	25.4	10.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3507.6	913.7	50.8	20.3	10.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	949.2	274.1	30.5	20.3	15.2	5.1	0.0	0.0	0.0	0.0	0.0
82.5°	248.7	101.5	25.4	20.3	10.2	5.1	0.0	0.0	0.0	0.0	0.0
85°	96.4	40.6	20.3	15.2	15.2	10.2	5.1	0.0	0.0	0.0	0.0
87.5°	30.5	15.2	15.2	10.2	10.2	5.1	5.1	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)