

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: P482240

Luminaire Tested: **IFLD-L-SA7D-830-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482240  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-830-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

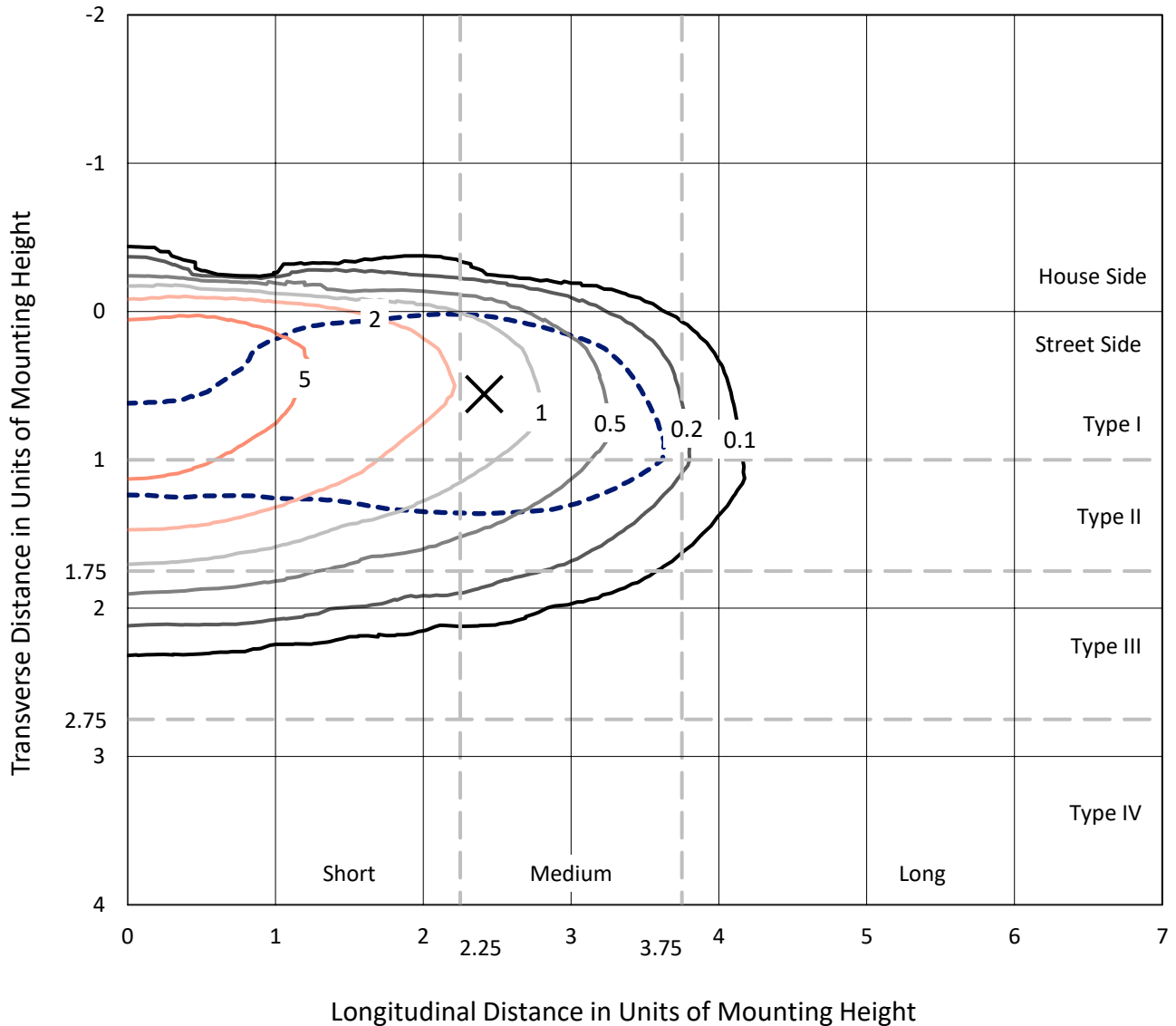
Lumens per Lamp: N/A  
Luminaire Lumens: 30473.3 lumens  
Efficiency: N/A  
Efficacy: 72.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G4

Input Watts (W): 422.6  
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

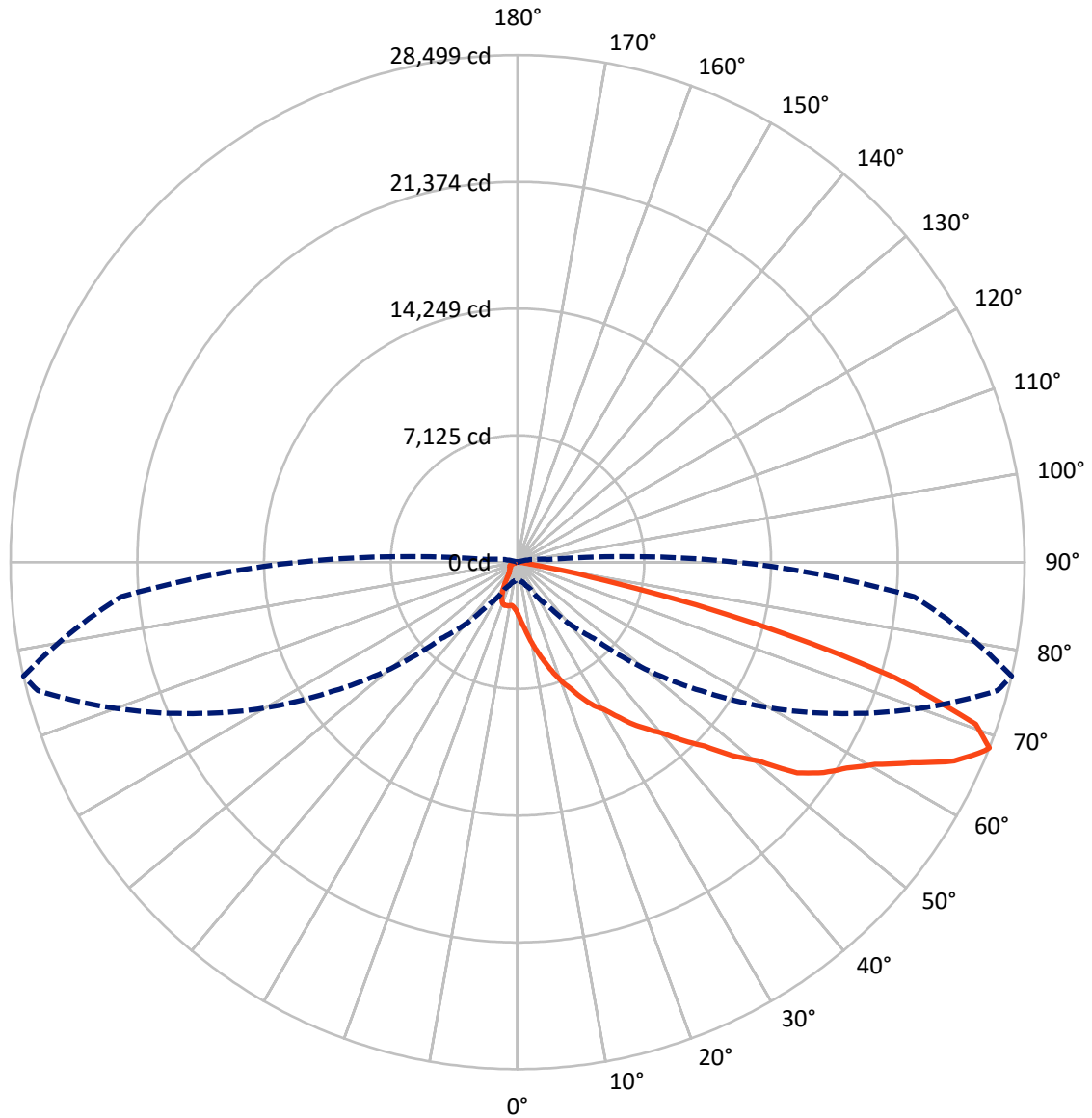
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1381.9	0.0	1381.9
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	29091.4	0.0	29091.4
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	30473.3	0.0	30473.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	340.9	1.1
10°-20°	1257.2	4.1
20°-30°	2436.5	8.0
30°-40°	4247.6	13.9
40°-50°	6221.1	20.4
50°-60°	7308.8	24.0
60°-70°	6171.6	20.3
70°-80°	2392.3	7.9
80°-90°	97.3	0.3
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°	30473.3	100.0
0°-180°	30473.3	100.0

**Coefficient of Utilization**



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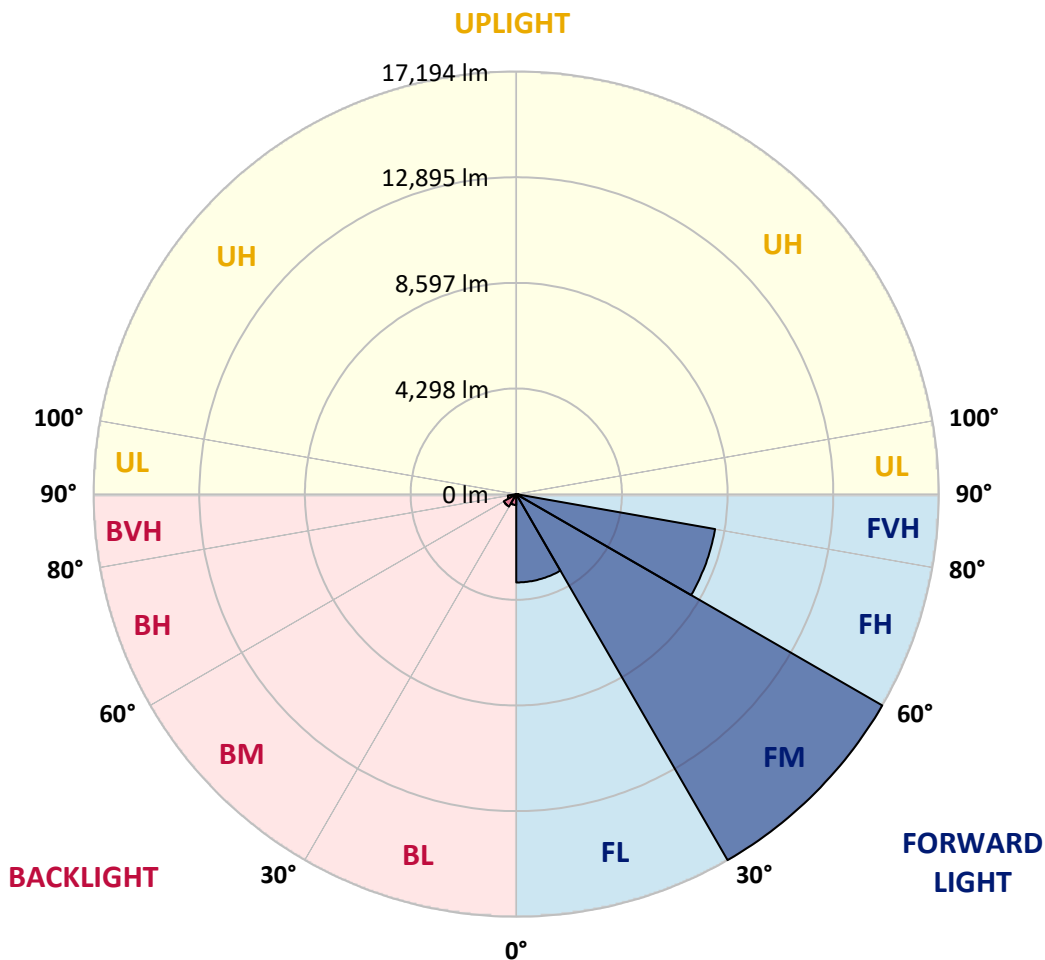
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3593.1	11.8			
FM (30°-60°)	17193.6	56.4			
FH (60°-80°)	8215.0	27.0			G4/12000
FVH (80°-90°)	89.7	0.3			G1/100
BL (0°-30°)	441.5	1.4	B1/500		
BM (30°-60°)	583.9	1.9	B1/1000		
BH (60°-80°)	348.9	1.1	B1/500		G1/500
BVH (80°-90°)	7.5	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-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2917.9	2917.9	2917.9	2917.9	2917.9	2917.9	2917.9	2917.9	2917.9	2917.9	2917.9
2.5°	4433.5	4349.5	4261.3	4236.1	4072.4	3887.7	3715.6	3547.6	3266.3	3270.5	3077.4
5°	5714.0	5609.0	5537.6	5520.8	5264.7	4945.7	4685.4	4211.0	3744.9	3640.0	3287.3
7.5°	6767.8	6734.2	6629.2	6541.1	6352.1	5961.7	5655.2	4975.1	4265.5	4148.0	3543.4
10°	7405.9	7456.3	7502.5	7389.1	7242.2	6960.9	6541.1	5806.3	4857.5	4710.6	3875.1
12.5°	8086.0	8002.1	8031.5	8123.8	7930.7	7867.7	7347.1	6662.8	5550.2	5268.9	4294.9
15°	8262.4	8296.0	8367.3	8636.0	8766.2	8585.7	8136.4	7355.5	6268.2	5877.7	4685.4
17.5°	8379.9	8363.1	8451.3	8854.4	9051.7	9223.8	8942.5	8128.0	6893.7	6545.2	5172.4
20°	8526.9	8434.5	8627.6	8883.7	9341.4	9702.4	9689.8	8904.7	7548.7	7179.2	5655.2
22.5°	9072.7	9001.3	9156.6	9181.8	9500.9	10004.7	10126.5	9538.7	8220.4	7767.0	6175.8
25°	10080.3	10210.4	10025.7	9866.2	9962.7	10294.4	10382.6	10101.3	8896.3	8480.7	6696.4
27.5°	11553.9	11537.1	11171.8	10966.1	10735.2	10693.2	10756.2	10626.1	9429.5	9131.4	7124.6
30°	13136.7	12998.1	12662.3	12166.9	11658.9	11344.0	11255.8	11121.5	10055.1	9622.7	7548.7
32.5°	14396.2	14471.8	14098.1	13451.6	12607.7	12183.7	11759.6	11612.7	10743.6	10361.6	8035.7
35°	15554.9	15454.2	15156.1	14610.3	13854.6	13170.3	12506.9	12192.0	11570.7	11192.8	8573.1
37.5°	16411.4	16537.4	15970.6	15450.0	14698.5	14131.7	13480.9	12792.4	12423.0	11919.2	9228.0
40°	17221.7	17024.4	16642.3	16163.7	15466.8	15034.3	14606.1	13531.3	13329.8	12679.1	9966.9
42.5°	17078.9	17091.5	16881.6	16495.4	15991.6	15743.9	15596.9	14429.8	14152.7	13737.0	10689.0
45°	16495.4	16545.8	16617.1	16428.2	16470.2	16222.5	16617.1	15462.6	15189.7	14748.9	11520.3
47.5°	15853.0	15937.0	15920.2	16264.5	16654.9	16738.9	17725.5	16608.7	16491.2	16247.7	12670.7
50°	14786.6	14820.2	15143.5	15769.1	16302.2	17179.7	18556.8	17859.8	18040.4	17561.8	14039.3
52.5°	12964.5	13086.3	13917.6	14811.8	15886.6	17402.2	19119.4	19719.7	20177.3	19686.1	15353.4
55°	10659.6	10827.6	11646.3	13321.4	14895.8	17066.4	19631.6	20702.1	21630.0	20886.9	16151.1
57.5°	8577.3	8594.1	9328.8	11058.5	13489.3	16407.2	19891.9	21180.7	22427.7	21831.5	17125.1
60°	6536.9	6469.7	7128.8	8627.6	11121.5	14786.6	19241.1	21424.3	23422.7	23078.4	18296.5
62.5°	4206.8	4101.8	4819.7	6280.8	8686.4	12087.1	17939.6	21428.5	24976.1	24845.9	20257.1
65°	2082.4	2011.0	2628.2	3849.9	6012.1	9244.8	16083.9	21348.7	26873.7	26957.7	22167.4
67.5°	1100.0	1125.2	1322.5	1952.2	3467.8	6532.7	13287.8	20412.4	27843.6	28313.8	22629.2
68°	1011.8	1020.2	1175.5	1624.8	3010.2	6058.2	12624.5	20139.6	27919.1	28498.5	22373.1
70°	822.9	835.5	890.1	1020.2	1629.0	3942.3	9740.2	17822.1	26781.4	27310.4	20252.9
72.5°	654.9	692.7	726.3	780.9	957.2	2069.8	6058.2	13888.2	22125.4	22184.2	15764.9
75°	499.6	529.0	596.2	642.3	747.3	1137.8	2884.3	8468.1	14517.9	13804.2	9286.8
77.5°	386.2	411.4	440.8	503.8	625.6	768.3	881.7	3593.8	6167.4	5075.8	2624.0
80°	230.9	247.7	344.3	394.6	545.8	520.6	348.5	999.2	1251.1	986.6	478.6
82.5°	134.3	146.9	197.3	302.3	382.1	281.3	205.7	310.7	306.5	268.7	159.5
85°	4.2	8.4	109.2	180.5	134.3	75.6	126.0	130.1	109.2	100.8	71.4
87.5°	0.0	4.2	29.4	25.2	29.4	16.8	25.2	33.6	42.0	37.8	29.4
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°	2917.9	2917.9	2917.9	2917.9	2917.9	2917.9	2917.9	2917.9	2917.9	2917.9	2917.9
2.5°	2947.3	2854.9	2649.2	2493.8	2325.9	2225.1	2124.4	2061.4	2027.8	2006.8	2023.6
5°	3022.8	2829.7	2498.0	2204.1	2011.0	1880.9	1750.7	1683.5	1620.6	1587.0	1608.0
7.5°	3190.8	2901.1	2351.1	2032.0	1805.3	1603.8	1440.0	1309.9	1234.3	1167.1	1179.7
10°	3396.5	2943.1	2355.3	1931.2	1603.8	1284.7	1053.8	890.1	797.7	738.9	734.7
12.5°	3606.4	3106.8	2372.1	1830.5	1356.1	965.6	692.7	571.0	516.4	487.0	487.0
15°	3925.5	3253.7	2330.1	1645.8	1028.6	629.8	474.4	432.4	411.4	386.2	390.4
17.5°	4202.6	3488.8	2309.1	1368.7	705.3	453.4	394.6	348.5	327.5	302.3	302.3
20°	4576.2	3635.8	2195.7	1058.0	487.0	377.9	319.1	277.1	243.5	222.5	226.7
22.5°	4916.3	3749.1	1994.2	722.1	373.7	298.1	235.1	193.1	163.7	138.5	142.7
25°	5285.7	3862.5	1700.3	445.0	264.5	184.7	126.0	92.4	63.0	46.2	46.2
27.5°	5550.2	3896.1	1318.3	264.5	159.5	84.0	29.4	4.2	0.0	0.0	0.0
30°	5818.9	3908.7	911.0	142.7	63.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	6125.4	3904.5	571.0	75.6	4.2	0.0	0.0	0.0	0.0	0.0	0.0
35°	6360.5	3833.1	272.9	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	6717.4	3728.1	84.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7124.6	3539.2	16.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7489.9	3346.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7905.5	3106.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	8636.0	3006.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	9589.1	2926.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	10176.8	2691.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10483.3	2447.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	10936.7	2330.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	11608.5	2338.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	12658.1	2456.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	13237.4	2338.5	16.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	12746.2	1872.5	79.8	21.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0
68°	12322.2	1721.3	79.8	21.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	10185.2	1121.0	75.6	21.0	8.4	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7418.5	621.4	63.0	16.8	8.4	0.0	0.0	0.0	0.0	0.0	0.0
75°	4315.9	310.7	46.2	16.8	8.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1125.2	155.3	37.8	21.0	12.6	4.2	0.0	0.0	0.0	0.0	0.0
80°	222.5	100.8	33.6	25.2	16.8	8.4	0.0	0.0	0.0	0.0	0.0
82.5°	105.0	71.4	33.6	25.2	21.0	12.6	4.2	0.0	0.0	0.0	0.0
85°	54.6	33.6	33.6	25.2	25.2	16.8	8.4	0.0	0.0	0.0	0.0
87.5°	25.2	12.6	12.6	12.6	12.6	8.4	4.2	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)