

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: P482205

Luminaire Tested: **IFLD-L-SA8C-827-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482205  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-827-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (128) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

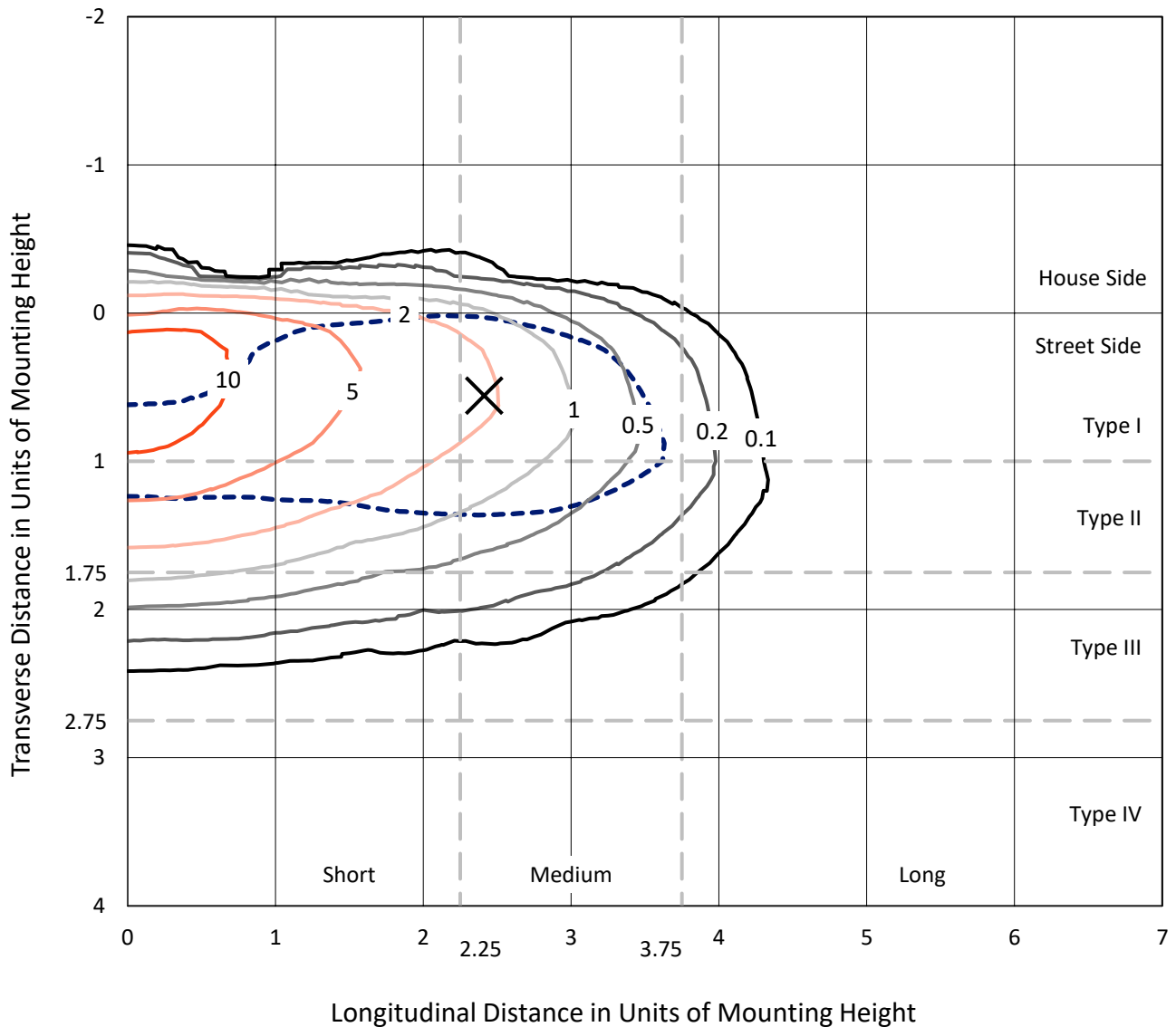
Lumens per Lamp: N/A  
Luminaire Lumens: 29280.8 lumens  
Efficiency: N/A  
Efficacy: 69.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G4

Input Watts (W): 420.3  
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

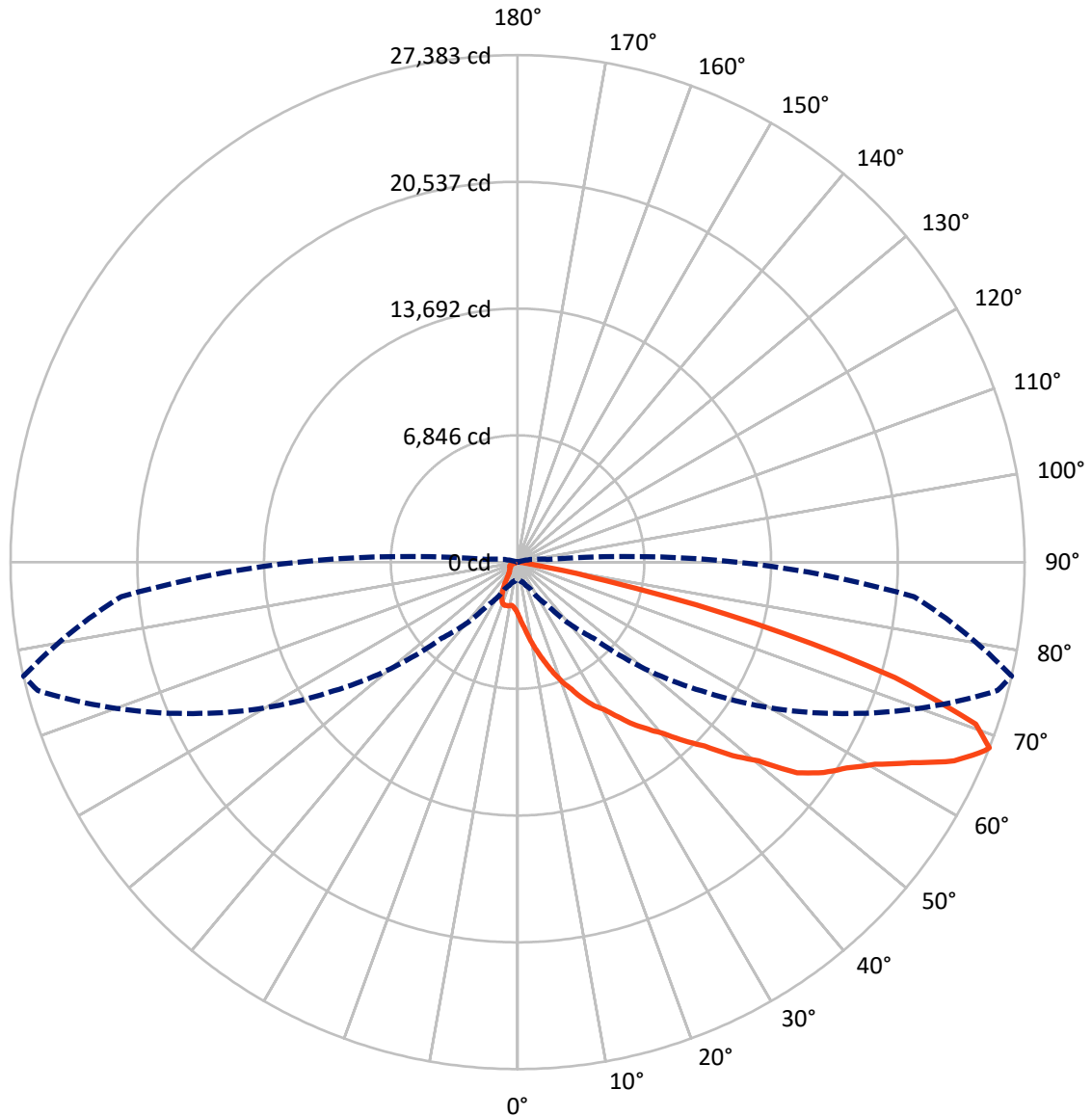
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 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	1327.9	0.0	1327.9
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	27952.9	0.0	27952.9
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	29280.8	0.0	29280.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	327.6	1.1
10°-20°	1208.0	4.1
20°-30°	2341.2	8.0
30°-40°	4081.4	13.9
40°-50°	5977.6	20.4
50°-60°	7022.8	24.0
60°-70°	5930.1	20.3
70°-80°	2298.7	7.9
80°-90°	93.5	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°	29280.8	100.0
0°-180°	29280.8	100.0

**Coefficient of Utilization**



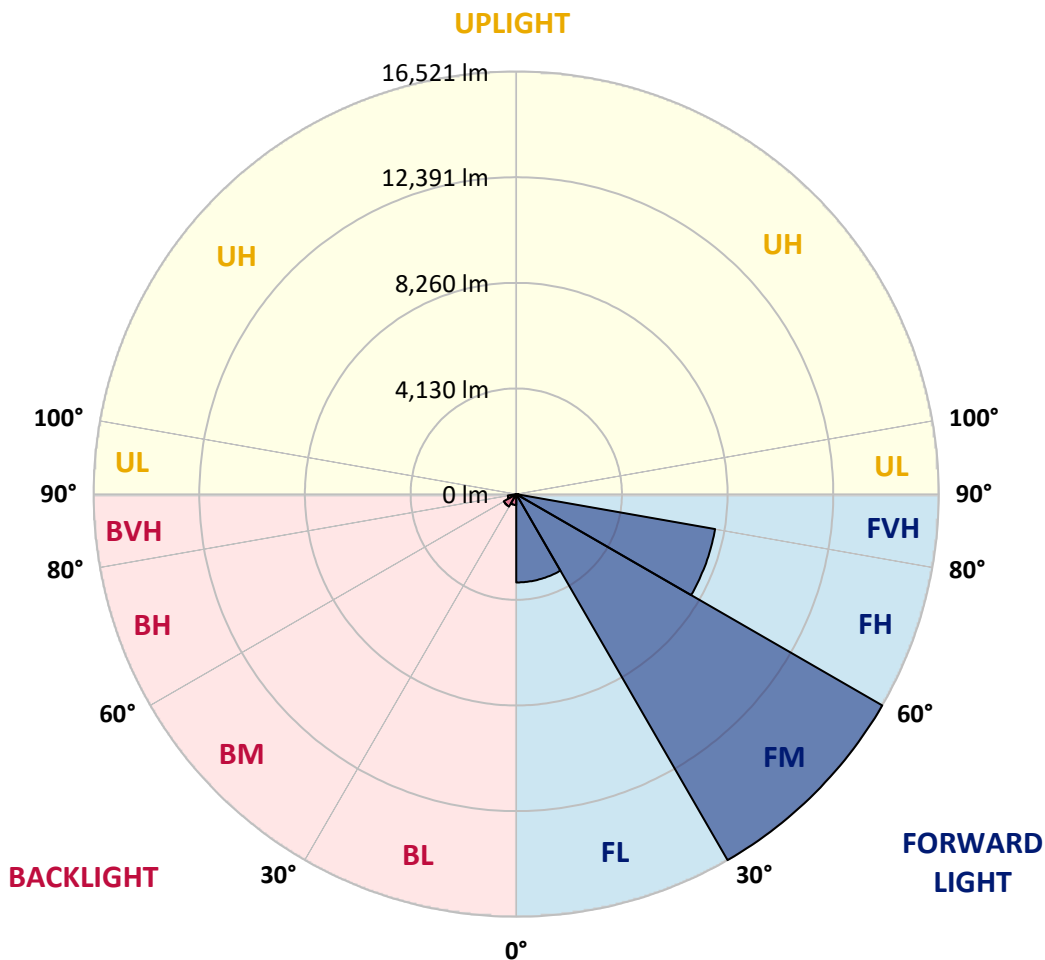
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3452.5	11.8			
FM (30°-60°)	16520.8	56.4			
FH (60°-80°)	7893.5	27.0			G4/12000
FVH (80°-90°)	86.2	0.3			G1/100
BL (0°-30°)	424.3	1.4	B1/500		
BM (30°-60°)	561.1	1.9	B1/1000		
BH (60°-80°)	335.3	1.1	B1/500		G1/500
BVH (80°-90°)	7.2	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°	2803.7	2803.7	2803.7	2803.7	2803.7	2803.7	2803.7	2803.7	2803.7	2803.7	2803.7
2.5°	4260.0	4179.3	4094.6	4070.4	3913.1	3735.6	3570.2	3408.8	3138.5	3142.5	2957.0
5°	5490.4	5389.5	5320.9	5304.8	5058.7	4752.1	4502.0	4046.2	3598.4	3497.5	3158.7
7.5°	6502.9	6470.7	6369.8	6285.1	6103.6	5728.4	5433.9	4780.4	4098.6	3985.7	3404.8
10°	7116.1	7164.5	7208.9	7100.0	6958.8	6688.5	6285.1	5579.1	4667.4	4526.2	3723.4
12.5°	7769.6	7688.9	7717.2	7805.9	7620.4	7559.9	7059.6	6402.1	5333.0	5062.8	4126.9
15°	7939.1	7971.3	8039.9	8298.1	8423.1	8249.7	7818.0	7067.7	6022.9	5647.7	4502.0
17.5°	8052.0	8035.9	8120.6	8507.9	8697.5	8862.9	8592.6	7810.0	6623.9	6289.1	4970.0
20°	8193.2	8104.5	8290.0	8536.1	8975.8	9322.7	9310.6	8556.3	7253.3	6898.3	5433.9
22.5°	8717.6	8649.1	8798.3	8822.5	9129.1	9613.2	9730.2	9165.4	7898.7	7463.0	5934.1
25°	9685.8	9810.9	9633.4	9480.1	9572.9	9891.5	9976.3	9706.0	8548.2	8148.8	6434.3
27.5°	11101.8	11085.6	10734.7	10537.0	10315.1	10274.8	10335.3	10210.2	9060.5	8774.1	6845.8
30°	12622.6	12489.5	12166.8	11690.7	11202.6	10900.1	10815.3	10686.3	9661.6	9246.1	7253.3
32.5°	13832.8	13905.4	13546.4	12925.2	12114.3	11706.9	11299.4	11158.2	10323.2	9956.1	7721.2
35°	14946.2	14849.4	14563.0	14038.6	13312.4	12654.9	12017.5	11714.9	11117.9	10754.8	8237.6
37.5°	15769.2	15890.2	15345.6	14845.4	14123.3	13578.7	12953.4	12291.8	11936.8	11452.7	8866.9
40°	16547.8	16358.2	15991.1	15531.2	14861.5	14446.0	14034.5	13001.8	12808.2	12182.9	9576.9
42.5°	16410.6	16422.7	16221.0	15849.9	15365.8	15127.8	14986.6	13865.1	13598.9	13199.5	10270.7
45°	15849.9	15898.3	15966.9	15785.3	15825.7	15587.7	15966.9	14857.5	14595.3	14171.7	11069.5
47.5°	15232.7	15313.3	15297.2	15628.0	16003.2	16083.8	17031.9	15958.8	15845.8	15611.9	12174.8
50°	14208.0	14240.3	14550.9	15152.0	15664.3	16507.4	17830.6	17160.9	17334.4	16874.5	13489.9
52.5°	12457.2	12574.2	13373.0	14232.2	15264.9	16721.2	18371.2	18948.0	19387.8	18915.8	14752.6
55°	10242.5	10403.9	11190.5	12800.1	14312.9	16398.5	18863.3	19892.0	20783.5	20069.5	15519.1
57.5°	8241.6	8257.7	8963.7	10625.7	12961.5	15765.2	19113.4	20351.9	21550.0	20977.2	16455.0
60°	6281.1	6216.5	6849.9	8290.0	10686.3	14208.0	18488.2	20585.9	22506.1	22175.3	17580.5
62.5°	4042.1	3941.3	4631.1	6035.0	8346.5	11614.1	17237.6	20589.9	23998.7	23873.6	19464.4
65°	2000.9	1932.3	2525.3	3699.2	5776.8	8883.0	15454.5	20513.3	25822.1	25902.8	21299.9
67.5°	1056.9	1081.1	1270.7	1875.8	3332.1	6277.0	12767.8	19613.7	26754.0	27205.8	21743.7
68°	972.2	980.3	1129.5	1561.2	2892.4	5821.2	12130.5	19351.4	26826.6	27383.3	21497.6
70°	790.7	802.8	855.2	980.3	1565.2	3788.0	9359.0	17124.6	25733.3	26241.6	19460.4
72.5°	629.3	665.6	697.9	750.3	919.8	1988.8	5821.2	13344.7	21259.6	21316.0	15147.9
75°	480.1	508.3	572.8	617.2	718.1	1093.2	2771.4	8136.7	13949.8	13264.0	8923.4
77.5°	371.1	395.3	423.6	484.1	601.1	738.2	847.2	3453.2	5926.1	4877.2	2521.3
80°	221.9	238.0	330.8	379.2	524.4	500.2	334.8	960.1	1202.2	948.0	459.9
82.5°	129.1	141.2	189.6	290.5	367.1	270.3	197.7	298.5	294.5	258.2	153.3
85°	4.0	8.1	104.9	173.5	129.1	72.6	121.0	125.1	104.9	96.8	68.6
87.5°	0.0	4.0	28.2	24.2	28.2	16.1	24.2	32.3	40.3	36.3	28.2
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°	2803.7	2803.7	2803.7	2803.7	2803.7	2803.7	2803.7	2803.7	2803.7	2803.7	2803.7
2.5°	2831.9	2743.2	2545.5	2396.2	2234.9	2138.1	2041.2	1980.7	1948.5	1928.3	1944.4
5°	2904.5	2719.0	2400.3	2117.9	1932.3	1807.3	1682.2	1617.7	1557.2	1524.9	1545.0
7.5°	3065.9	2787.5	2259.1	1952.5	1734.7	1541.0	1383.7	1258.6	1186.0	1121.5	1133.6
10°	3263.6	2827.9	2263.1	1855.7	1541.0	1234.4	1012.6	855.2	766.5	710.0	706.0
12.5°	3465.3	2985.2	2279.3	1758.9	1303.0	927.8	665.6	548.6	496.2	468.0	468.0
15°	3771.9	3126.4	2238.9	1581.4	988.3	605.1	455.9	415.5	395.3	371.1	375.2
17.5°	4038.1	3352.3	2218.7	1315.1	677.7	435.7	379.2	334.8	314.7	290.5	290.5
20°	4397.1	3493.5	2109.8	1016.6	468.0	363.1	306.6	266.2	234.0	213.8	217.8
22.5°	4723.9	3602.4	1916.2	693.9	359.0	286.4	225.9	185.6	157.3	133.1	137.2
25°	5078.9	3711.3	1633.8	427.6	254.1	177.5	121.0	88.7	60.5	44.4	44.4
27.5°	5333.0	3743.6	1266.7	254.1	153.3	80.7	28.2	4.0	0.0	0.0	0.0
30°	5591.2	3755.7	875.4	137.2	60.5	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5885.7	3751.7	548.6	72.6	4.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	6111.6	3683.1	262.2	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	6454.5	3582.3	80.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6845.8	3400.7	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7196.8	3215.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7596.2	2985.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	8298.1	2888.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	9213.8	2811.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9778.6	2585.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10073.1	2351.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	10508.8	2238.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	11154.2	2247.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	12162.7	2359.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	12719.4	2247.0	16.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	12247.4	1799.2	76.6	20.2	4.0	0.0	0.0	0.0	0.0	0.0	0.0
68°	11840.0	1654.0	76.6	20.2	4.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9786.7	1077.1	72.6	20.2	8.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	7128.2	597.0	60.5	16.1	8.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	4147.0	298.5	44.4	16.1	8.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1081.1	149.3	36.3	20.2	12.1	4.0	0.0	0.0	0.0	0.0	0.0
80°	213.8	96.8	32.3	24.2	16.1	8.1	0.0	0.0	0.0	0.0	0.0
82.5°	100.9	68.6	32.3	24.2	20.2	12.1	4.0	0.0	0.0	0.0	0.0
85°	52.4	32.3	32.3	24.2	24.2	16.1	8.1	0.0	0.0	0.0	0.0
87.5°	24.2	12.1	12.1	12.1	12.1	8.1	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)