

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: P482243

Luminaire Tested: **IFLD-L-SA8B-830-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482243  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-830-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

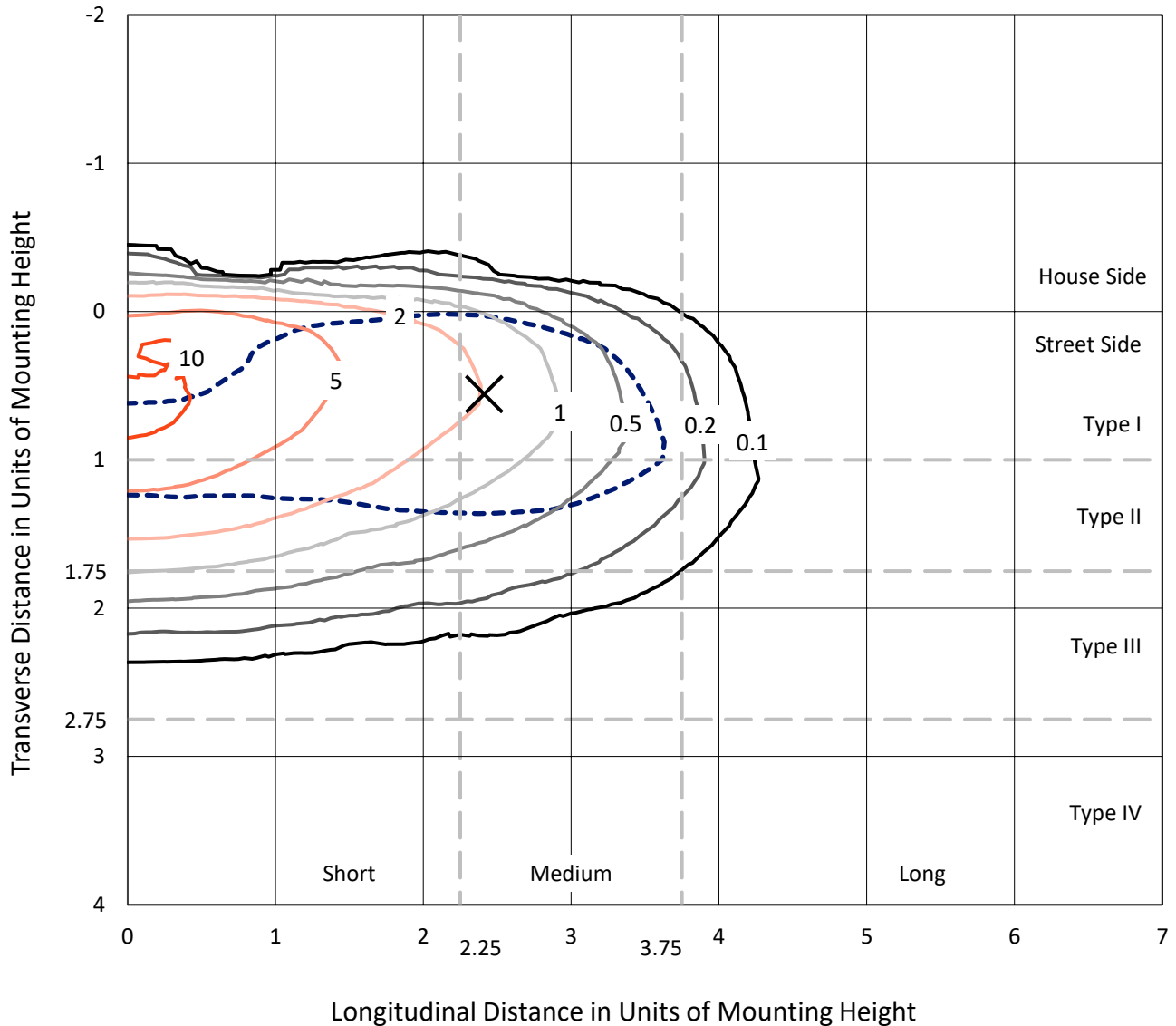
Lumens per Lamp: N/A  
Luminaire Lumens: 25425.3 lumens  
Efficiency: N/A  
Efficacy: 79.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

Input Watts (W): 320  
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

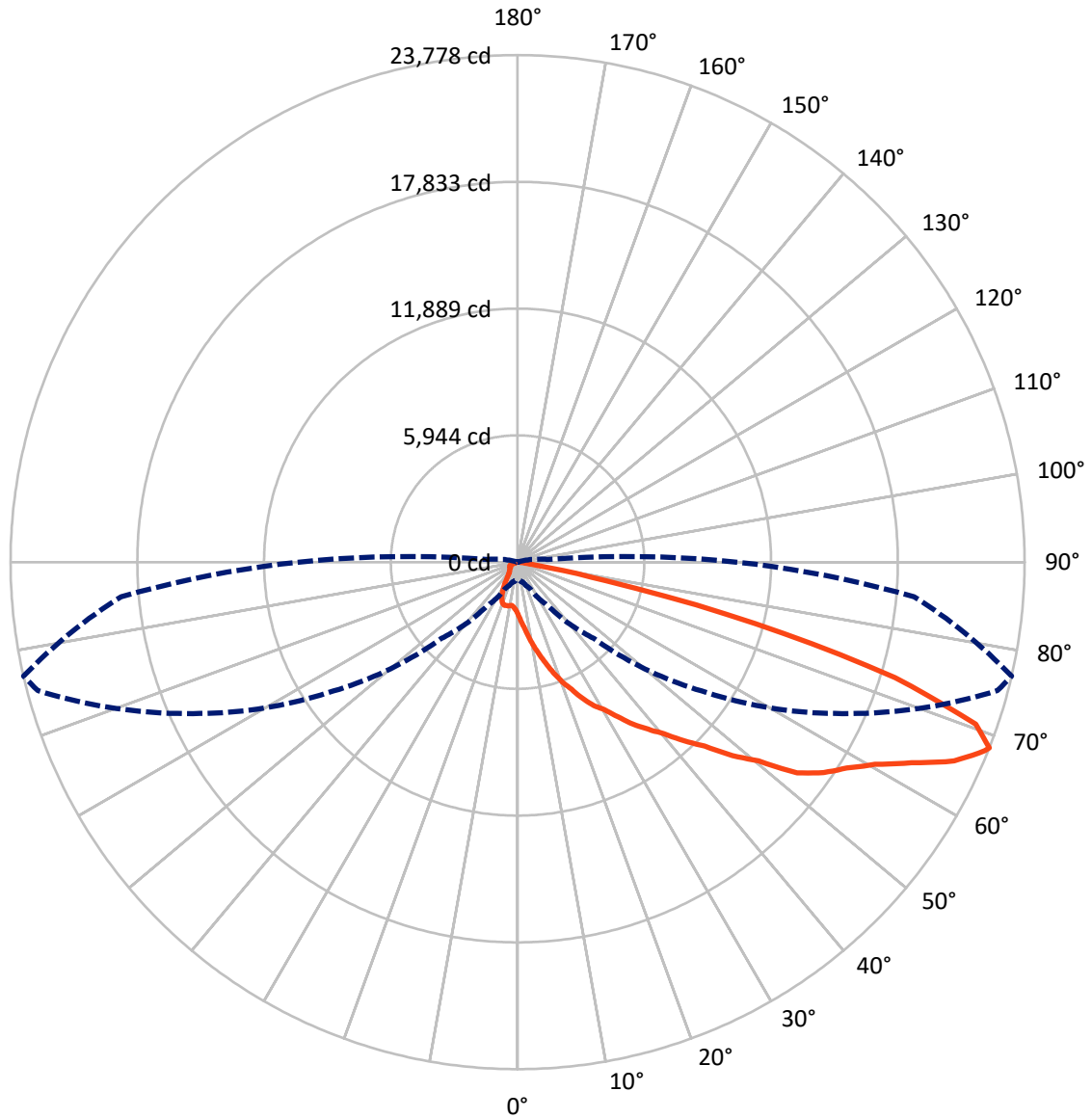
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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	1153.0	0.0	1153.0
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	24272.3	0.0	24272.3
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	25425.3	0.0	25425.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	284.4	1.1
10°-20°	1049.0	4.1
20°-30°	2032.9	8.0
30°-40°	3544.0	13.9
40°-50°	5190.5	20.4
50°-60°	6098.1	24.0
60°-70°	5149.3	20.3
70°-80°	1996.0	7.9
80°-90°	81.2	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°	25425.3	100.0
0°-180°	25425.3	100.0

**Coefficient of Utilization**



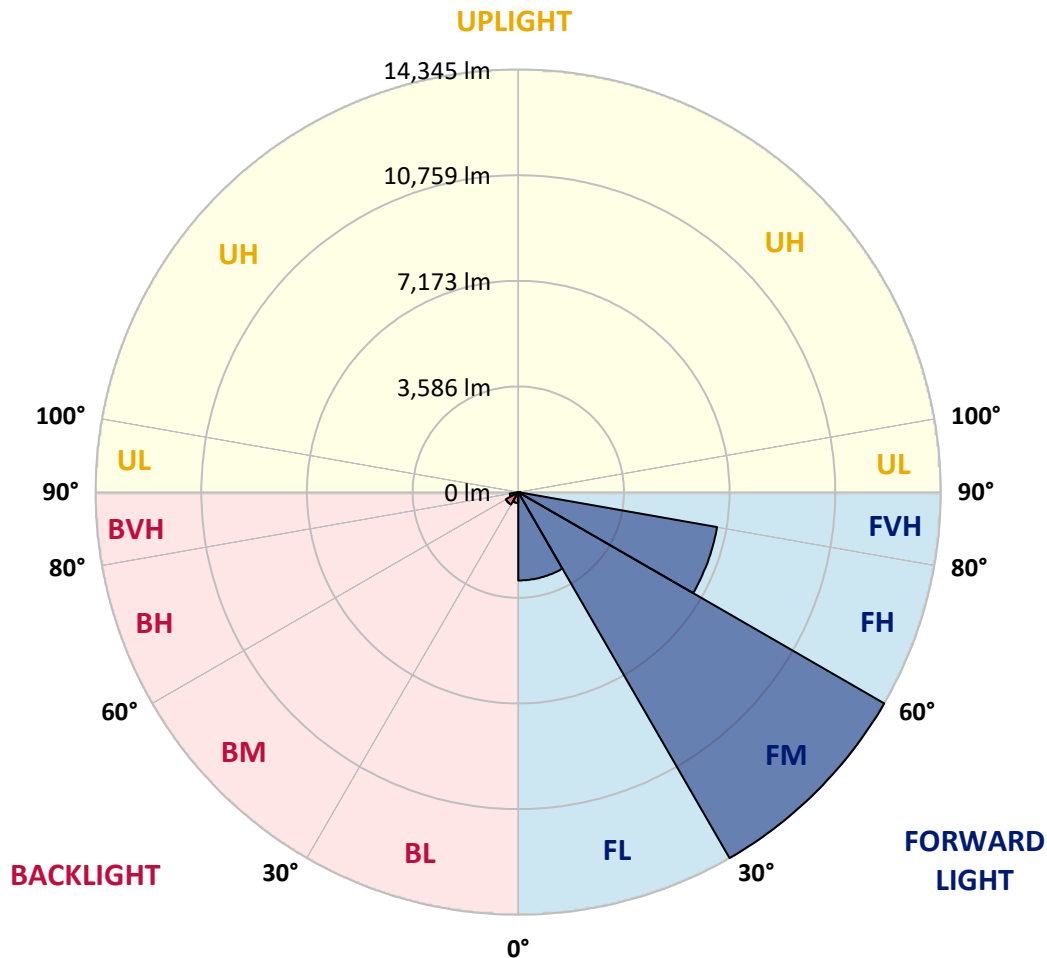
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2997.9	11.8			
FM (30°-60°)	14345.4	56.4			
FH (60°-80°)	6854.1	27.0			G3/7500
FVH (80°-90°)	74.9	0.3			G1/100
BL (0°-30°)	368.4	1.4	B1/500		
BM (30°-60°)	487.2	1.9	B1/1000		
BH (60°-80°)	291.1	1.1	B1/500		G1/500
BVH (80°-90°)	6.3	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-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2434.5	2434.5	2434.5	2434.5	2434.5	2434.5	2434.5	2434.5	2434.5	2434.5	2434.5
2.5°	3699.1	3629.0	3555.4	3534.4	3397.8	3243.7	3100.1	2959.9	2725.3	2728.8	2567.6
5°	4767.4	4679.9	4620.3	4606.3	4392.6	4126.4	3909.2	3513.4	3124.6	3037.0	2742.8
7.5°	5646.7	5618.6	5531.1	5457.5	5299.9	4974.1	4718.4	4150.9	3558.9	3460.9	2956.4
10°	6179.1	6221.1	6259.7	6165.1	6042.5	5807.8	5457.5	4844.5	4052.8	3930.2	3233.2
12.5°	6746.6	6676.5	6701.0	6778.1	6617.0	6564.4	6130.1	5559.1	4630.8	4396.1	3583.5
15°	6893.7	6921.7	6981.3	7205.5	7314.0	7163.4	6788.6	6137.1	5229.8	4904.1	3909.2
17.5°	6991.8	6977.8	7051.3	7387.6	7552.2	7695.9	7461.2	6781.6	5751.8	5461.0	4315.6
20°	7114.4	7037.3	7198.4	7412.1	7793.9	8095.2	8084.7	7429.6	6298.2	5989.9	4718.4
22.5°	7569.8	7510.2	7639.8	7660.8	7927.0	8347.4	8449.0	7958.6	6858.7	6480.4	5152.8
25°	8410.4	8519.0	8364.9	8231.8	8312.4	8589.1	8662.7	8428.0	7422.6	7075.8	5587.1
27.5°	9640.0	9626.0	9321.2	9149.6	8956.9	8921.9	8974.4	8865.8	7867.5	7618.8	5944.4
30°	10960.6	10845.0	10564.7	10151.4	9727.5	9464.8	9391.3	9279.2	8389.4	8028.6	6298.2
32.5°	12011.4	12074.5	11762.7	11223.3	10519.2	10165.4	9811.6	9689.0	8963.9	8645.1	6704.5
35°	12978.2	12894.2	12645.4	12190.1	11559.5	10988.6	10435.1	10172.4	9654.0	9338.7	7152.9
37.5°	13692.8	13797.9	13325.0	12890.6	12263.6	11790.7	11247.8	10673.3	10365.1	9944.7	7699.4
40°	14368.9	14204.2	13885.5	13486.1	12904.7	12543.9	12186.6	11289.8	11121.7	10578.7	8315.9
42.5°	14249.8	14260.3	14085.1	13762.9	13342.5	13135.9	13013.2	12039.4	11808.3	11461.5	8918.4
45°	13762.9	13804.9	13864.5	13706.8	13741.9	13535.2	13864.5	12901.2	12673.5	12305.7	9611.9
47.5°	13226.9	13297.0	13283.0	13570.2	13896.0	13966.0	14789.2	13857.4	13759.4	13556.2	10571.7
50°	12337.2	12365.2	12634.9	13156.9	13601.7	14333.8	15482.8	14901.3	15051.9	14652.6	11713.7
52.5°	10816.9	10918.5	11612.1	12358.2	13254.9	14519.5	15952.2	16453.1	16834.9	16425.1	12810.1
55°	8893.8	9034.0	9717.0	11114.7	12428.3	14239.3	16379.5	17272.8	18046.9	17426.9	13475.6
57.5°	7156.4	7170.4	7783.4	9226.6	11254.8	13689.3	16596.7	17672.1	18712.5	18215.0	14288.3
60°	5454.0	5398.0	5947.9	7198.4	9279.2	12337.2	16053.8	17875.3	19542.6	19255.4	15265.6
62.5°	3509.9	3422.3	4021.3	5240.3	7247.5	10084.8	14967.9	17878.8	20838.7	20730.1	16901.5
65°	1737.4	1677.9	2192.8	3212.2	5016.1	7713.4	13419.6	17812.2	22422.0	22492.1	18495.3
67.5°	917.8	938.8	1103.4	1628.8	2893.4	5450.5	11086.7	17031.1	23231.2	23623.5	18880.6
68°	844.2	851.2	980.8	1355.6	2511.6	5054.7	10533.2	16803.4	23294.2	23777.6	18666.9
70°	686.6	697.1	742.6	851.2	1359.1	3289.2	8126.7	14869.8	22345.0	22786.3	16898.0
72.5°	546.5	578.0	606.0	651.5	798.7	1726.9	5054.7	11587.6	18460.2	18509.3	13153.4
75°	416.8	441.4	497.4	535.9	623.5	949.3	2406.5	7065.3	12113.0	11517.5	7748.4
77.5°	322.3	343.3	367.8	420.3	521.9	641.0	735.6	2998.5	5145.8	4235.0	2189.3
80°	192.7	206.7	287.2	329.3	455.4	434.4	290.7	833.7	1043.9	823.2	399.3
82.5°	112.1	122.6	164.6	252.2	318.8	234.7	171.6	259.2	255.7	224.2	133.1
85°	3.5	7.0	91.1	150.6	112.1	63.1	105.1	108.6	91.1	84.1	59.5
87.5°	0.0	3.5	24.5	21.0	24.5	14.0	21.0	28.0	35.0	31.5	24.5
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°	2434.5	2434.5	2434.5	2434.5	2434.5	2434.5	2434.5	2434.5	2434.5	2434.5	2434.5
2.5°	2459.0	2382.0	2210.3	2080.7	1940.6	1856.5	1772.5	1719.9	1691.9	1674.4	1688.4
5°	2522.1	2361.0	2084.2	1839.0	1677.9	1569.3	1460.7	1404.7	1352.1	1324.1	1341.6
7.5°	2662.2	2420.5	1961.6	1695.4	1506.2	1338.1	1201.5	1092.9	1029.9	973.8	984.3
10°	2833.8	2455.5	1965.1	1611.3	1338.1	1071.9	879.2	742.6	665.5	616.5	613.0
12.5°	3009.0	2592.1	1979.1	1527.3	1131.4	805.7	578.0	476.4	430.9	406.3	406.3
15°	3275.2	2714.7	1944.1	1373.1	858.2	525.4	395.8	360.8	343.3	322.3	325.8
17.5°	3506.4	2910.9	1926.6	1141.9	588.5	378.3	329.3	290.7	273.2	252.2	252.2
20°	3818.2	3033.5	1832.0	882.7	406.3	315.3	266.2	231.2	203.2	185.7	189.2
22.5°	4101.9	3128.1	1663.9	602.5	311.8	248.7	196.2	161.1	136.6	115.6	119.1
25°	4410.1	3222.7	1418.7	371.3	220.7	154.1	105.1	77.1	52.5	38.5	38.5
27.5°	4630.8	3250.7	1099.9	220.7	133.1	70.1	24.5	3.5	0.0	0.0	0.0
30°	4855.0	3261.2	760.1	119.1	52.5	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	5110.7	3257.7	476.4	63.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0
35°	5306.9	3198.1	227.7	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5604.6	3110.6	70.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5944.4	2952.9	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6249.2	2791.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6595.9	2592.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7205.5	2508.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8000.6	2441.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8491.0	2245.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8746.7	2042.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	9125.0	1944.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9685.5	1951.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	10561.2	2049.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	11044.6	1951.1	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10634.8	1562.3	66.6	17.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
68°	10281.0	1436.2	66.6	17.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	8498.0	935.3	63.1	17.5	7.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6189.6	518.4	52.5	14.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3601.0	259.2	38.5	14.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	938.8	129.6	31.5	17.5	10.5	3.5	0.0	0.0	0.0	0.0	0.0
80°	185.7	84.1	28.0	21.0	14.0	7.0	0.0	0.0	0.0	0.0	0.0
82.5°	87.6	59.5	28.0	21.0	17.5	10.5	3.5	0.0	0.0	0.0	0.0
85°	45.5	28.0	28.0	21.0	21.0	14.0	7.0	0.0	0.0	0.0	0.0
87.5°	21.0	10.5	10.5	10.5	10.5	7.0	3.5	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)