

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: P481814

Luminaire Tested: **IFLD-L-SA8B-827-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481814
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-827-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

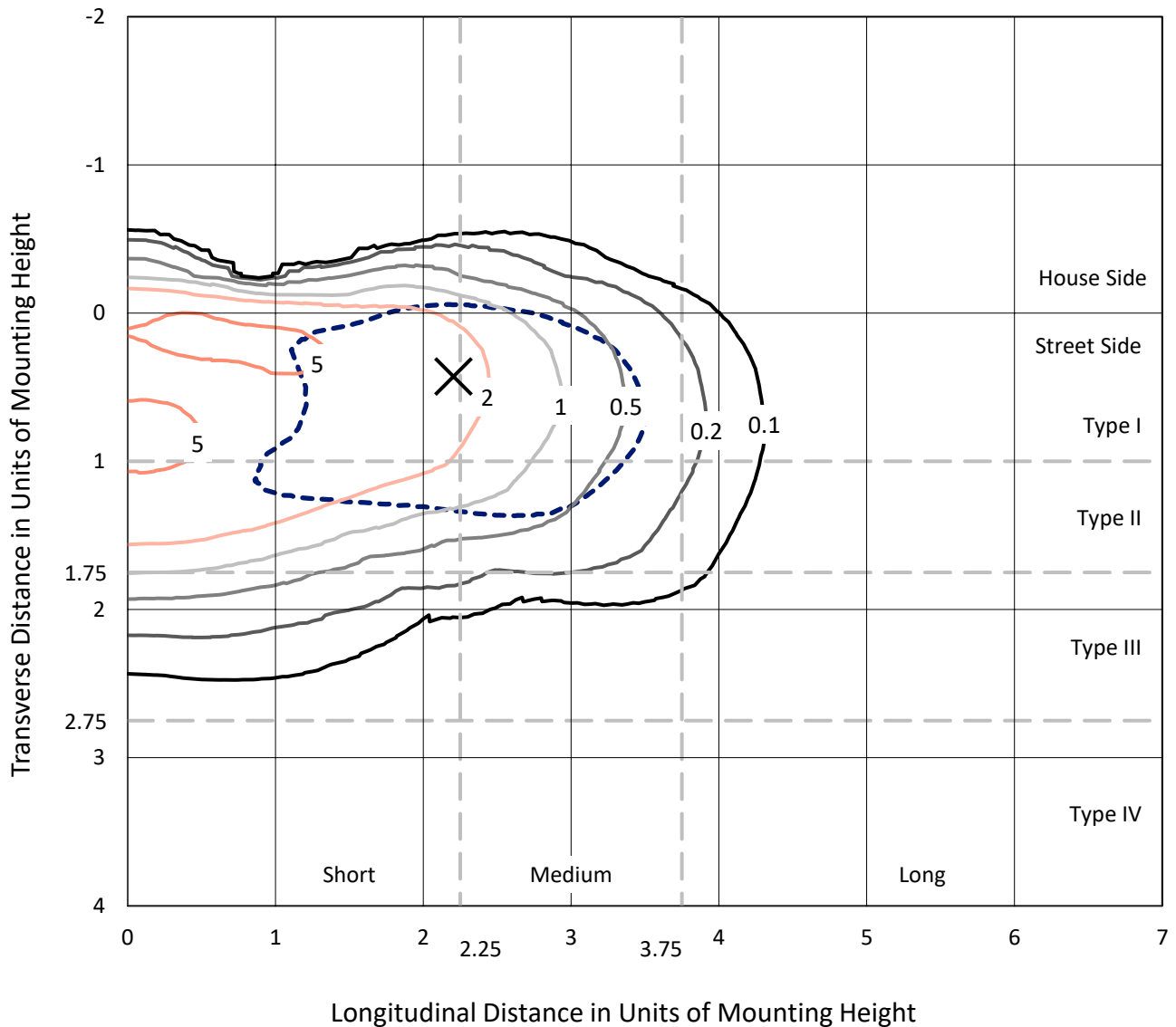
Lumens per Lamp: N/A
Luminaire Lumens: 21544.8 lumens
Efficiency: N/A
Efficacy: 67.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

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

REPORT NUMBER: P481814
 CATALOG NUMBER: IFLD-L-SA8B-827-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

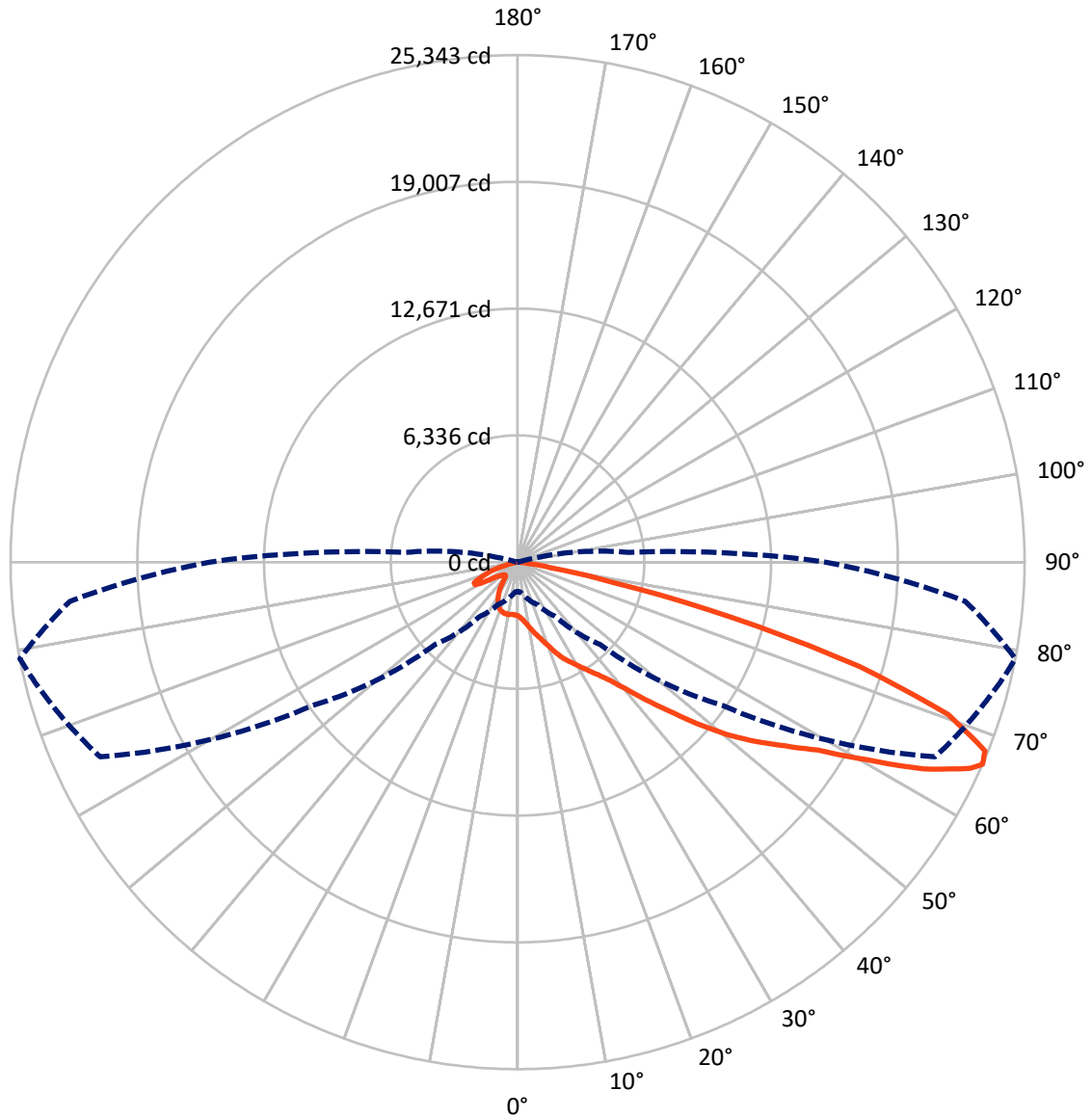
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

REPORT NUMBER: P481814
CATALOG NUMBER: IFLD-L-SA8B-827-U-T2-HSS

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	1617.7	0.0	1617.7
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	19927.1	0.0	19927.1
	% Fixture	92.5	0.0	92.5
Total	Lumens	21544.8	0.0	21544.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.5	1.2
10°-20°	697.7	3.2
20°-30°	1159.0	5.4
30°-40°	1990.7	9.2
40°-50°	3606.4	16.7
50°-60°	5700.6	26.5
60°-70°	5800.8	26.9
70°-80°	2212.1	10.3
80°-90°	124.0	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°	21544.8	100.0
0°-180°	21544.8	100.0



REPORT NUMBER: P481814

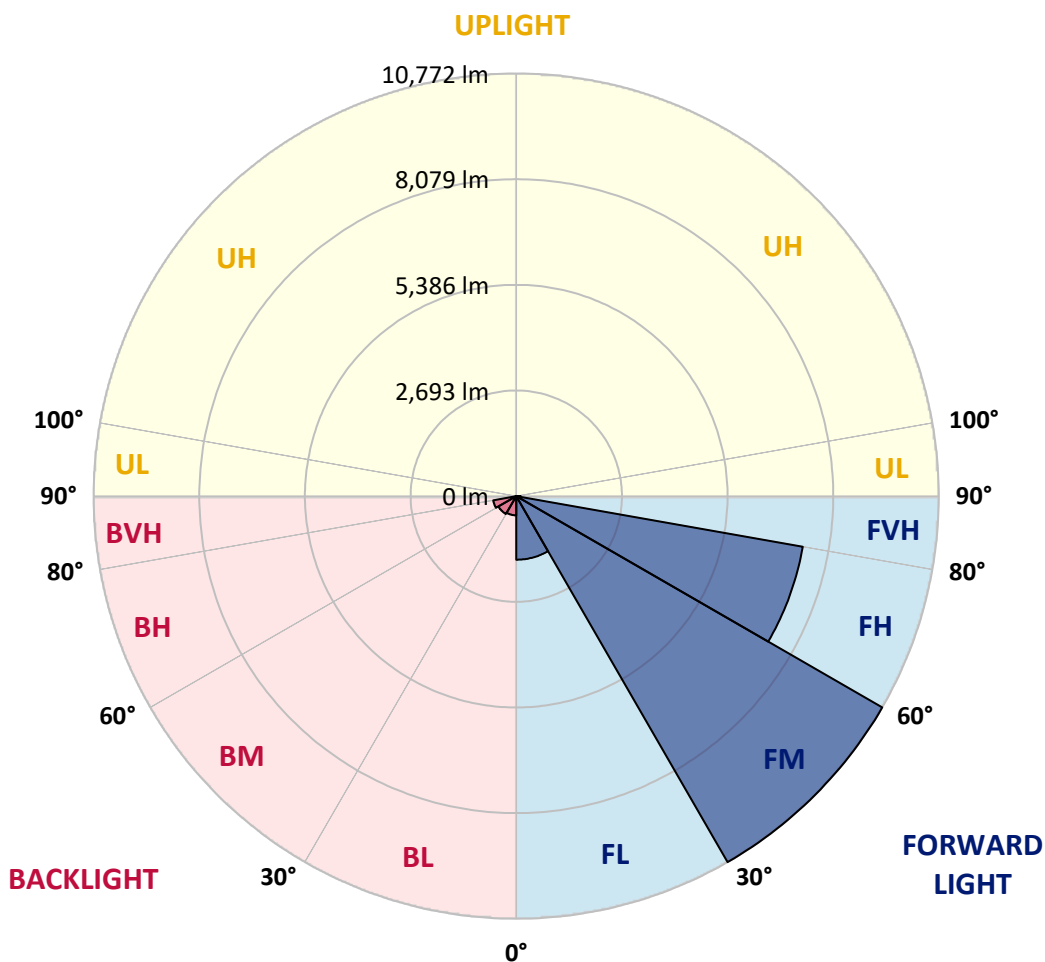
CATALOG NUMBER: IFLD-L-SA8B-827-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1620.9	7.5			
FM (30°-60°)	10771.9	50.0			
FH (60°-80°)	7416.6	34.4			G3/7500
FVH (80°-90°)	117.7	0.5			G2/225
BL (0°-30°)	489.2	2.3	B1/500		
BM (30°-60°)	525.8	2.4	B1/1000		
BH (60°-80°)	596.4	2.8	B2/1000		G2/1000
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: B2-U0-G3

Type II Short





REPORT NUMBER: P481814

CATALOG NUMBER: IFLD-L-SA8B-827-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2680.4	2680.4	2680.4	2680.4	2680.4	2680.4	2680.4	2680.4	2680.4	2680.4	2680.4
2.5°	3035.8	3032.5	3019.2	2996.0	2966.1	2956.1	2912.9	2853.1	2819.9	2783.4	2766.8
5°	3245.1	3228.5	3268.3	3251.7	3258.4	3178.7	3125.5	3082.3	2956.1	2906.3	2826.6
7.5°	3291.6	3308.2	3304.9	3331.4	3358.0	3387.9	3351.4	3288.3	3162.0	3089.0	3002.6
10°	3291.6	3284.9	3311.5	3348.1	3424.4	3490.9	3590.5	3507.5	3411.2	3324.8	3168.7
12.5°	3231.8	3221.8	3248.4	3324.8	3461.0	3597.2	3706.8	3786.5	3650.3	3580.6	3377.9
15°	3049.1	3039.2	3148.8	3284.9	3464.3	3686.8	3916.0	4045.6	3952.6	3843.0	3617.1
17.5°	2823.3	2836.5	2952.8	3178.7	3464.3	3730.0	4022.3	4304.6	4291.3	4151.8	3916.0
20°	2746.9	2756.8	2873.1	3035.8	3361.3	3759.9	4188.4	4587.0	4666.7	4500.6	4191.7
22.5°	2893.0	2883.0	2893.0	2992.7	3291.6	3733.3	4298.0	4909.1	5052.0	4922.4	4553.7
25°	3391.2	3384.6	3301.5	3148.8	3251.7	3673.6	4354.5	5121.7	5450.5	5331.0	4846.0
27.5°	4122.0	4095.4	3965.8	3647.0	3437.7	3710.1	4447.5	5327.7	5799.3	5663.1	5108.4
30°	4905.8	4842.7	4673.3	4274.7	3919.3	3846.3	4500.6	5480.4	6187.9	6015.2	5337.6
32.5°	5447.2	5530.3	5477.1	5071.9	4527.2	4161.8	4587.0	5673.1	6546.6	6433.7	5729.5
35°	6284.2	6380.6	6158.0	5799.3	5251.3	4663.4	4769.6	5829.2	7098.0	6908.7	6094.9
37.5°	7340.5	7413.5	7254.1	6573.2	5995.3	5281.2	5145.0	6154.7	7573.0	7483.3	6563.2
40°	7871.9	8224.0	7998.1	7383.6	6762.5	6144.7	5766.1	6536.7	8400.0	8326.9	7210.9
42.5°	8606.0	8782.0	8665.7	8210.7	7563.0	7068.1	6533.3	7280.7	9403.1	9403.1	8087.8
45°	9383.2	9389.8	9383.2	9011.2	8436.6	8180.8	7569.6	8214.0	10482.6	10602.2	9137.4
47.5°	10020.9	10220.2	10203.6	9981.0	9536.0	9439.6	8606.0	9276.9	11837.7	12047.0	10160.4
50°	10349.7	10572.3	10638.7	10754.9	10735.0	10937.6	9738.6	10509.2	13006.9	13521.7	11475.7
52.5°	10260.0	10276.7	10685.2	11143.6	11874.3	12442.3	11103.7	11907.5	14375.4	14883.5	12492.1
55°	9526.0	9462.9	10303.2	10828.0	12339.3	13362.3	12993.6	13651.3	15441.6	16215.5	13541.7
57.5°	7915.1	7931.7	8708.9	9775.1	11993.9	13727.7	15013.1	15929.8	16936.2	17716.8	15016.4
60°	5463.8	5443.9	6314.1	7546.4	9964.4	13046.8	16175.6	18882.6	18935.7	20041.8	17663.6
62.5°	3072.4	3079.0	3740.0	4792.9	6971.8	10661.9	16119.1	22018.1	21792.2	22762.1	20672.9
65°	1740.5	1783.6	2238.7	2839.9	4175.1	7157.8	13863.9	23267.0	23994.4	24857.9	22499.7
66°	1471.4	1501.3	1889.9	2345.0	3331.4	5805.9	12478.8	23024.5	24685.2	25342.9	22463.2
67.5°	1139.3	1179.1	1504.6	1860.0	2444.6	4019.0	10044.2	21818.8	24811.4	25196.7	21828.8
70°	780.5	807.1	1056.2	1411.6	1670.7	2056.0	6005.2	18038.9	22513.0	22838.5	18972.3
72.5°	548.0	561.3	740.7	1069.5	1285.4	1175.8	2979.4	12834.2	17228.5	17862.9	14757.3
75°	395.3	408.5	508.2	767.3	1003.1	770.6	1365.1	8197.4	10565.6	11063.8	8888.3
77.5°	285.6	302.3	345.4	494.9	727.4	541.4	670.9	4281.4	4982.2	4895.9	3823.0
80°	172.7	189.3	255.8	318.9	531.4	382.0	368.7	1787.0	1767.0	1677.3	1202.4
82.5°	79.7	93.0	136.2	215.9	372.0	265.7	176.0	637.7	558.0	511.5	338.8
85°	23.3	29.9	79.7	162.8	189.3	129.5	106.3	219.2	229.2	196.0	112.9
87.5°	0.0	3.3	36.5	39.9	56.5	43.2	39.9	56.5	106.3	86.4	36.5
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°	2680.4	2680.4	2680.4	2680.4	2680.4	2680.4	2680.4	2680.4	2680.4	2680.4	2680.4
2.5°	2707.0	2683.8	2627.3	2540.9	2464.5	2424.7	2368.2	2318.4	2291.8	2288.5	2285.2
5°	2773.4	2710.3	2574.1	2418.0	2301.8	2175.6	2089.2	2026.1	1966.3	1909.8	1943.1
7.5°	2863.1	2763.5	2540.9	2338.3	2085.9	1923.1	1770.3	1680.7	1627.5	1577.7	1571.1
10°	3002.6	2876.4	2517.7	2152.3	1863.3	1624.2	1468.1	1338.6	1265.5	1179.1	1212.3
12.5°	3191.9	2966.1	2431.3	1982.9	1610.9	1358.5	1135.9	926.7	810.4	720.8	724.1
15°	3381.3	3085.7	2351.6	1777.0	1381.7	1049.6	724.1	581.3	548.0	528.1	534.8
17.5°	3567.3	3182.0	2228.7	1567.7	1119.3	667.6	528.1	498.2	481.6	461.7	461.7
20°	3793.1	3245.1	2075.9	1375.1	770.6	494.9	451.7	431.8	405.2	378.6	382.0
22.5°	4012.3	3298.2	1899.9	1129.3	518.2	428.5	378.6	352.1	328.8	302.3	302.3
25°	4231.6	3314.8	1670.7	810.4	418.5	342.1	295.6	259.1	235.8	212.6	215.9
27.5°	4381.0	3211.9	1454.8	518.2	335.5	259.1	205.9	176.0	156.1	132.9	132.9
30°	4467.4	3022.5	1222.3	365.4	252.4	176.0	122.9	93.0	73.1	56.5	53.1
32.5°	4553.7	2869.8	959.9	279.0	166.1	93.0	46.5	16.6	0.0	0.0	0.0
35°	4726.5	2697.0	644.4	156.1	56.5	3.3	0.0	0.0	0.0	0.0	0.0
37.5°	4836.1	2457.9	295.6	23.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5111.8	2338.3	73.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5560.2	2255.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6051.7	2222.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6706.1	2311.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7396.9	2554.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8154.2	2783.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8815.2	3059.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	10030.9	3710.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	12213.1	4988.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	14671.0	5938.8	36.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	15571.1	5915.6	63.1	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	15411.7	5590.0	63.1	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	14584.6	4965.6	56.5	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	12525.3	4102.0	56.5	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9549.2	3195.3	53.1	13.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	5762.8	1700.6	43.2	16.6	6.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2295.1	597.9	33.2	13.3	6.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	621.1	179.4	19.9	13.3	10.0	3.3	0.0	0.0	0.0	0.0	0.0
82.5°	162.8	66.4	16.6	13.3	6.6	3.3	0.0	0.0	0.0	0.0	0.0
85°	63.1	26.6	13.3	10.0	10.0	6.6	3.3	0.0	0.0	0.0	0.0
87.5°	19.9	10.0	10.0	6.6	6.6	3.3	3.3	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)