

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: P481811

Luminaire Tested: **IFLD-L-SA7D-827-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481811
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-827-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

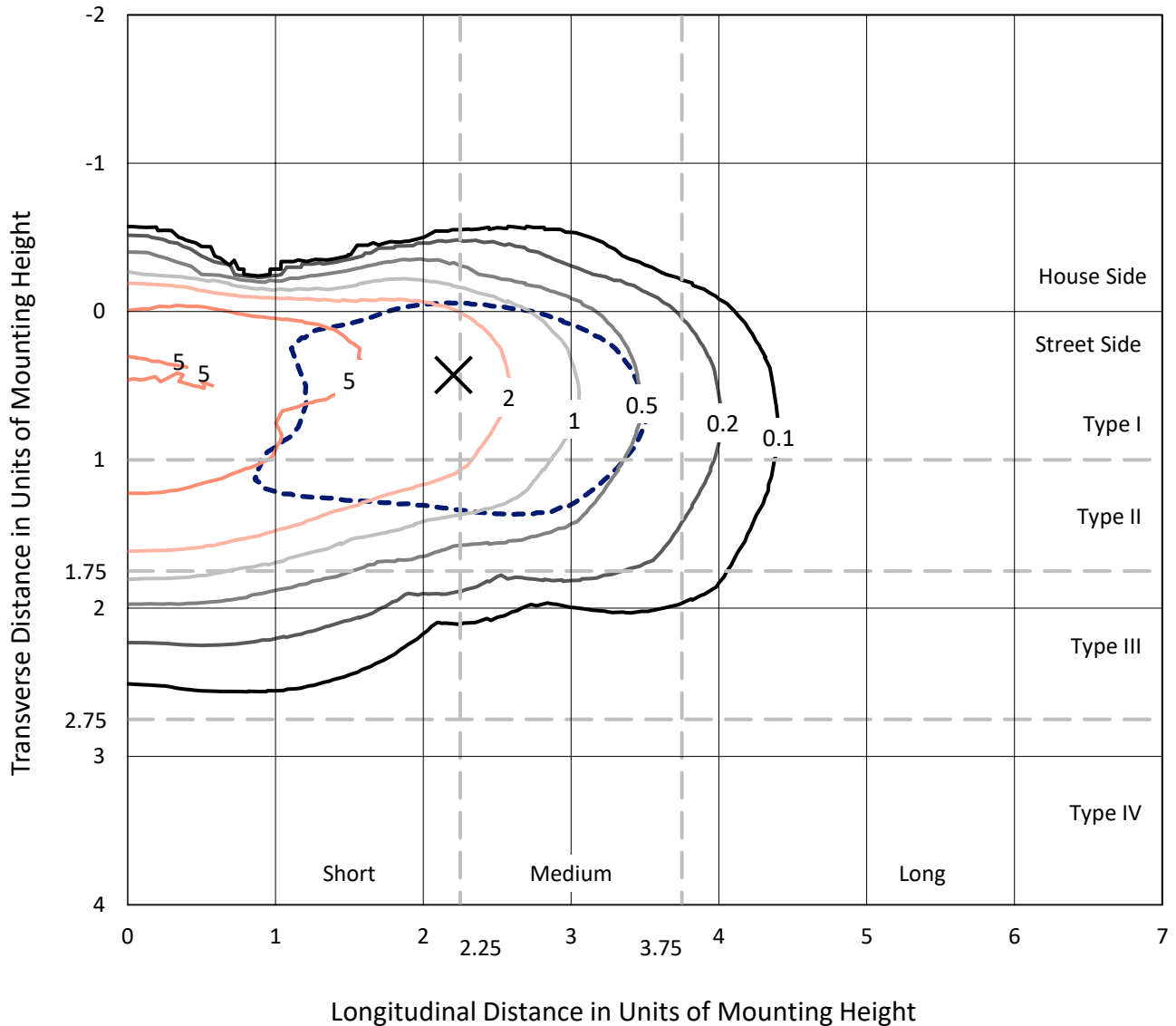
Lumens per Lamp: N/A
Luminaire Lumens: 25822.4 lumens
Efficiency: N/A
Efficacy: 61.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 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

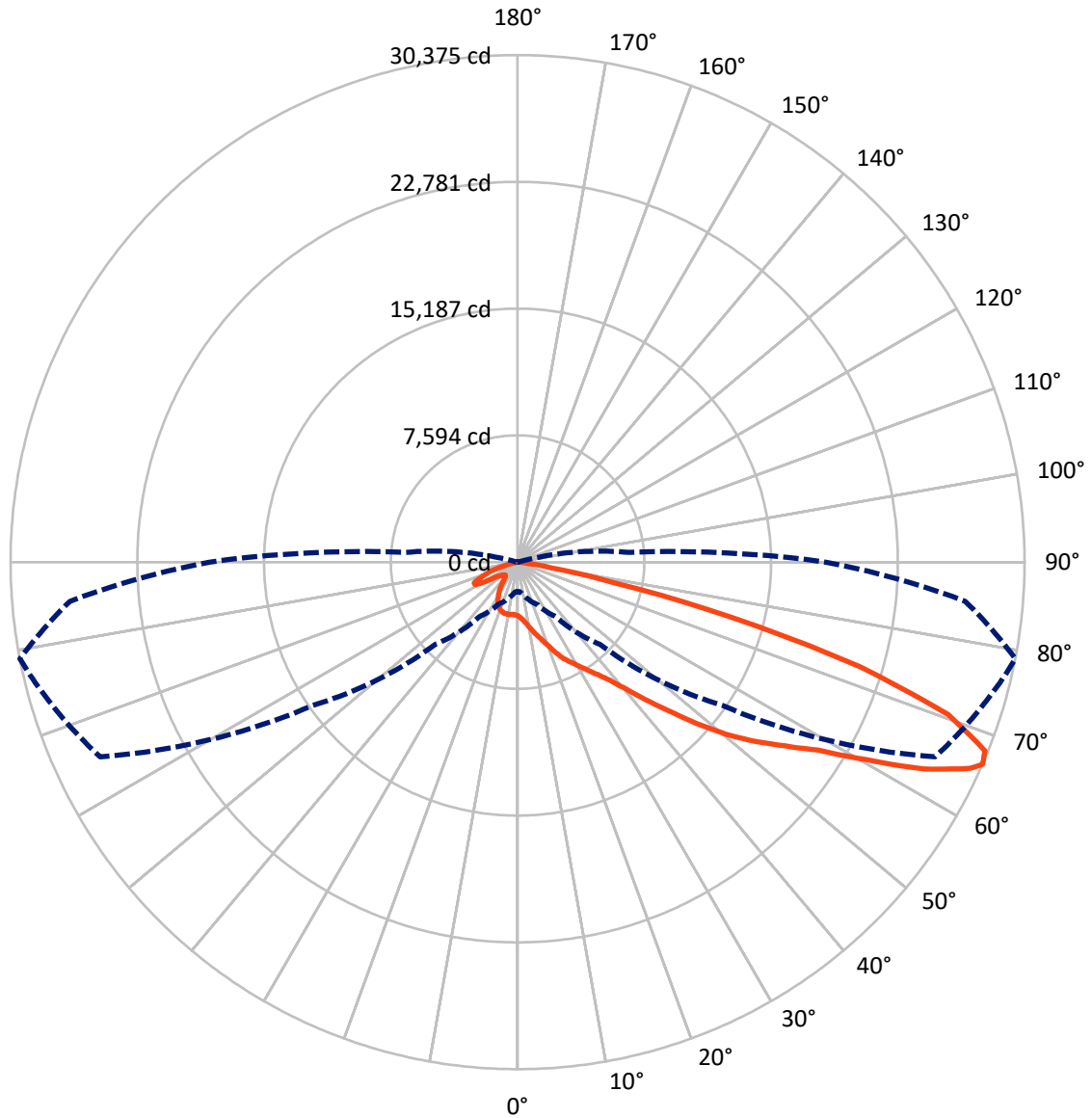
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	1938.9	0.0	1938.9
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	23883.5	0.0	23883.5
	% Fixture	92.5	0.0	92.5
Total	Lumens	25822.4	0.0	25822.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.8	1.2
10°-20°	836.2	3.2
20°-30°	1389.1	5.4
30°-40°	2385.9	9.2
40°-50°	4322.4	16.7
50°-60°	6832.4	26.5
60°-70°	6952.5	26.9
70°-80°	2651.3	10.3
80°-90°	148.6	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°	25822.4	100.0
0°-180°	25822.4	100.0

Coefficient of Utilization

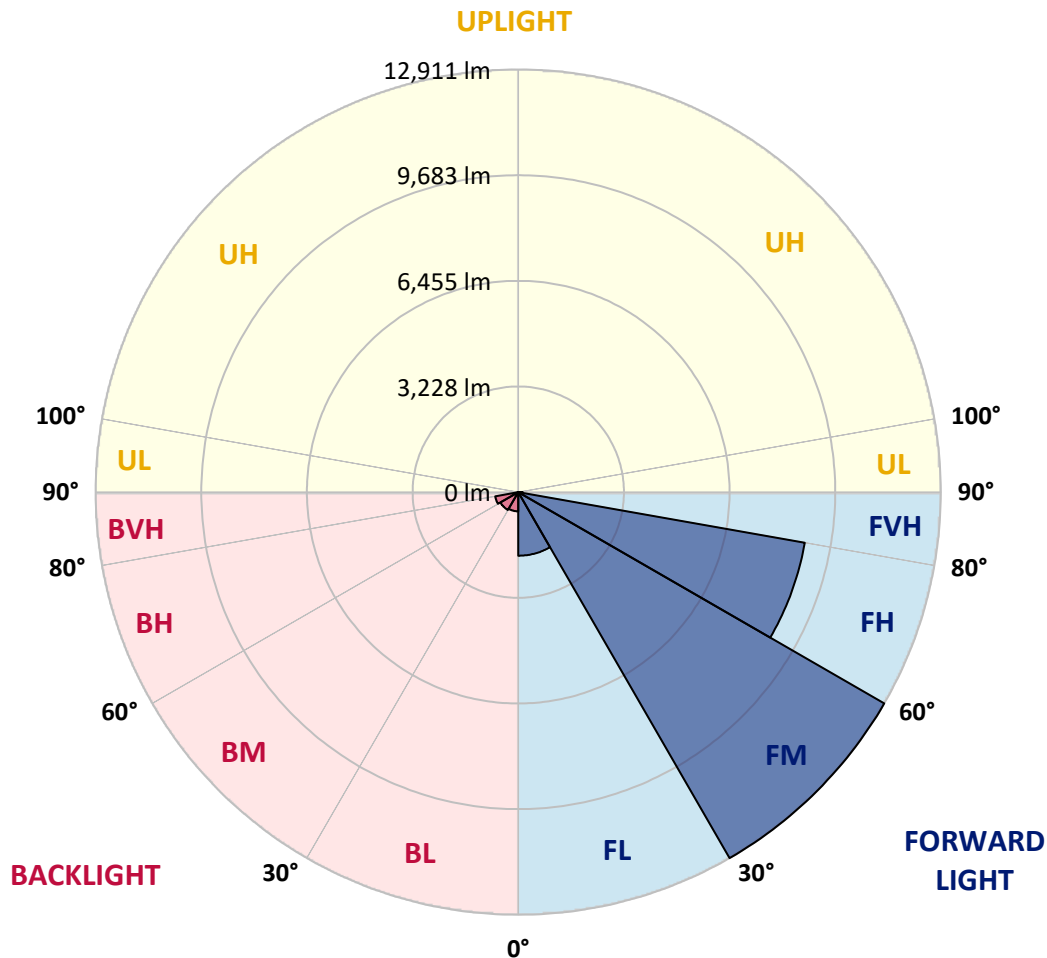


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1942.7	7.5			
FM (30°-60°)	12910.6	50.0			
FH (60°-80°)	8889.1	34.4			G4/12000
FVH (80°-90°)	141.0	0.5			G2/225
BL (0°-30°)	586.4	2.3	B2/1000		
BM (30°-60°)	630.2	2.4	B1/1000		
BH (60°-80°)	714.8	2.8	B2/1000		G2/1000
BVH (80°-90°)	7.6	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°	3212.6	3212.6	3212.6	3212.6	3212.6	3212.6	3212.6	3212.6	3212.6	3212.6	3212.6
2.5°	3638.6	3634.6	3618.7	3590.8	3555.0	3543.0	3491.3	3419.6	3379.8	3336.0	3316.1
5°	3889.4	3869.5	3917.2	3897.3	3905.3	3809.8	3746.1	3694.3	3543.0	3483.3	3387.8
7.5°	3945.1	3965.0	3961.0	3992.9	4024.7	4060.5	4016.8	3941.1	3789.8	3702.3	3598.8
10°	3945.1	3937.1	3969.0	4012.8	4104.3	4184.0	4303.4	4203.9	4088.4	3984.9	3797.8
12.5°	3873.4	3861.5	3893.3	3984.9	4148.1	4311.3	4442.7	4538.3	4375.0	4291.4	4048.6
15°	3654.5	3642.6	3773.9	3937.1	4152.1	4418.8	4693.5	4848.8	4737.3	4605.9	4335.2
17.5°	3383.8	3399.7	3539.0	3809.8	4152.1	4470.6	4820.9	5159.3	5143.4	4976.2	4693.5
20°	3292.2	3304.2	3443.5	3638.6	4028.7	4506.4	5020.0	5497.7	5593.2	5394.2	5023.9
22.5°	3467.4	3455.4	3467.4	3586.8	3945.1	4474.6	5151.3	5883.8	6055.0	5899.7	5457.9
25°	4064.5	4056.6	3957.0	3773.9	3897.3	4402.9	5219.0	6138.6	6532.7	6389.4	5808.2
27.5°	4940.3	4908.5	4753.2	4371.1	4120.3	4446.7	5330.5	6385.4	6950.7	6787.5	6122.7
30°	5879.8	5804.2	5601.2	5123.5	4697.5	4609.9	5394.2	6568.5	7416.5	7209.5	6397.4
32.5°	6528.7	6628.2	6564.6	6078.9	5426.0	4988.1	5497.7	6799.4	7846.4	7711.1	6867.1
35°	7531.9	7647.4	7380.6	6950.7	6293.9	5589.2	5716.6	6986.5	8507.2	8280.3	7305.0
37.5°	8797.9	8885.4	8694.4	7878.3	7185.6	6329.7	6166.5	7376.7	9076.5	8969.0	7866.3
40°	9434.8	9856.8	9586.1	8849.6	8105.2	7364.7	6910.9	7834.5	10067.8	9980.2	8642.6
42.5°	10314.6	10525.6	10386.2	9840.9	9064.6	8471.4	7830.5	8726.2	11270.0	11270.0	9693.6
45°	11246.1	11254.1	11246.1	10800.3	10111.6	9805.0	9072.5	9844.8	12563.8	12707.1	10951.5
47.5°	12010.5	12249.3	12229.4	11962.7	11429.3	11313.8	10314.6	11118.7	14188.0	14438.8	12177.7
50°	12404.6	12671.3	12750.9	12890.3	12866.4	13109.2	11672.1	12595.7	15589.3	16206.4	13754.1
52.5°	12297.1	12317.0	12806.7	13356.0	14231.8	14912.6	13308.3	14271.6	17229.5	17838.5	14972.3
55°	11417.3	11341.7	12348.8	12977.8	14789.2	16015.3	15573.4	16361.6	18507.3	19434.9	16230.3
57.5°	9486.6	9506.5	10438.0	11715.9	14375.1	16453.2	17993.8	19092.5	20298.8	21234.3	17997.8
60°	6548.6	6524.7	7567.7	9044.7	11942.8	15637.1	19387.1	22631.6	22695.3	24020.9	21170.6
62.5°	3682.4	3690.3	4482.5	5744.5	8356.0	12778.8	19319.5	26389.6	26118.9	27281.3	24777.3
65°	2086.0	2137.8	2683.1	3403.7	5004.0	8578.9	16616.4	27886.4	28758.2	29793.3	26966.8
66°	1763.6	1799.4	2265.1	2810.5	3992.9	6958.7	14956.4	27595.8	29586.3	30374.5	26923.0
67.5°	1365.5	1413.2	1803.4	2229.3	2930.0	4816.9	12038.3	26150.7	29737.5	30199.3	26162.7
70°	935.5	967.4	1265.9	1691.9	2002.4	2464.2	7197.5	21620.4	26982.7	27372.9	22739.1
72.5°	656.9	672.8	887.7	1281.9	1540.6	1409.2	3570.9	15382.3	20649.1	21409.4	17687.3
75°	473.7	489.7	609.1	919.6	1202.2	923.6	1636.2	9824.9	12663.3	13260.5	10653.0
77.5°	342.4	362.3	414.0	593.2	871.8	648.9	804.1	5131.4	5971.4	5867.9	4582.1
80°	207.0	226.9	306.5	382.2	636.9	457.8	441.9	2141.7	2117.9	2010.4	1441.1
82.5°	95.5	111.5	163.2	258.8	445.9	318.5	211.0	764.3	668.8	613.1	406.1
85°	27.9	35.8	95.5	195.1	226.9	155.3	127.4	262.7	274.7	234.9	135.4
87.5°	0.0	4.0	43.8	47.8	67.7	51.8	47.8	67.7	127.4	103.5	43.8
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°	3212.6	3212.6	3212.6	3212.6	3212.6	3212.6	3212.6	3212.6	3212.6	3212.6	3212.6
2.5°	3244.5	3216.6	3148.9	3045.4	2953.9	2906.1	2838.4	2778.7	2746.8	2742.9	2738.9
5°	3324.1	3248.4	3085.2	2898.1	2758.8	2607.5	2504.0	2428.4	2356.7	2289.0	2328.8
7.5°	3431.6	3312.1	3045.4	2802.6	2500.0	2305.0	2121.8	2014.4	1950.7	1890.9	1883.0
10°	3598.8	3447.5	3017.5	2579.6	2233.3	1946.7	1759.6	1604.3	1516.7	1413.2	1453.0
12.5°	3825.7	3555.0	2914.0	2376.6	1930.8	1628.2	1361.5	1110.7	971.3	863.9	867.8
15°	4052.6	3698.3	2818.5	2129.8	1656.1	1258.0	867.8	696.7	656.9	633.0	640.9
17.5°	4275.5	3813.7	2671.2	1879.0	1341.6	800.2	633.0	597.1	577.2	553.3	553.3
20°	4546.2	3889.4	2488.1	1648.1	923.6	593.2	541.4	517.5	485.7	453.8	457.8
22.5°	4809.0	3953.1	2277.1	1353.5	621.0	513.5	453.8	422.0	394.1	362.3	362.3
25°	5071.7	3973.0	2002.4	971.3	501.6	410.0	354.3	310.5	282.6	254.8	258.8
27.5°	5250.8	3849.6	1743.6	621.0	402.1	310.5	246.8	211.0	187.1	159.2	159.2
30°	5354.4	3622.6	1465.0	437.9	302.6	211.0	147.3	111.5	87.6	67.7	63.7
32.5°	5457.9	3439.5	1150.5	334.4	199.0	111.5	55.7	19.9	0.0	0.0	0.0
35°	5664.9	3232.5	772.3	187.1	67.7	4.0	0.0	0.0	0.0	0.0	0.0
37.5°	5796.2	2945.9	354.3	27.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6126.7	2802.6	87.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6664.1	2703.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7253.3	2663.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	8037.5	2770.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	8865.5	3061.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	9773.2	3336.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	10565.4	3666.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	12022.4	4446.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	14637.9	5979.4	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	17583.8	7117.9	43.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	18662.6	7090.0	75.6	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	18471.5	6699.9	75.6	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	17480.3	5951.5	67.7	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	15012.1	4916.4	67.7	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	11445.2	3829.7	63.7	15.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	6906.9	2038.2	51.8	19.9	8.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2750.8	716.6	39.8	15.9	8.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	744.4	215.0	23.9	15.9	11.9	4.0	0.0	0.0	0.0	0.0	0.0
82.5°	195.1	79.6	19.9	15.9	8.0	4.0	0.0	0.0	0.0	0.0	0.0
85°	75.6	31.8	15.9	11.9	11.9	8.0	4.0	0.0	0.0	0.0	0.0
87.5°	23.9	11.9	11.9	8.0	8.0	4.0	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)