

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: P481567

Luminaire Tested: **IFLD-S-SA6D-727-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481567
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-727-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

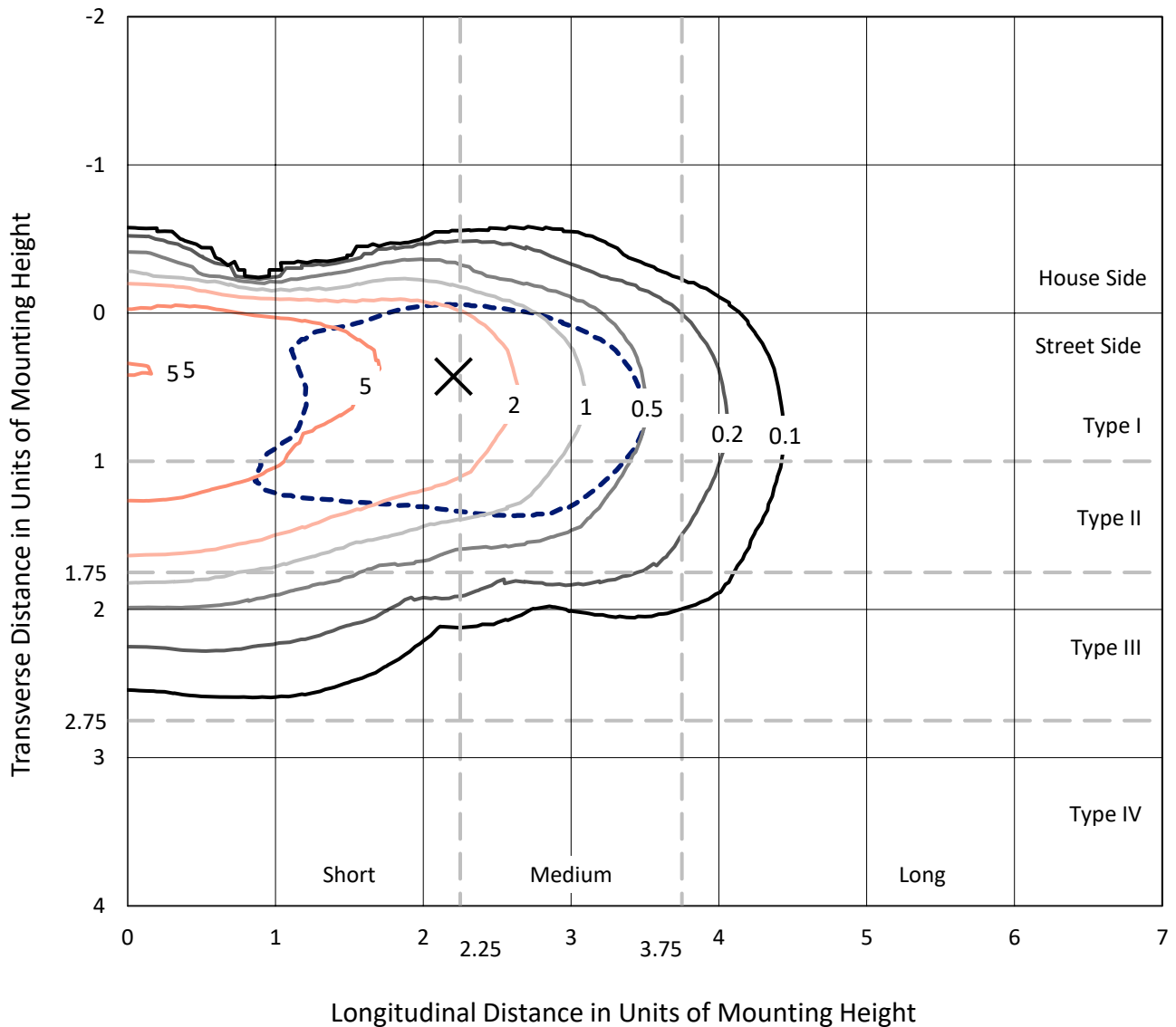
Lumens per Lamp: N/A
Luminaire Lumens: 27536 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 368.2
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

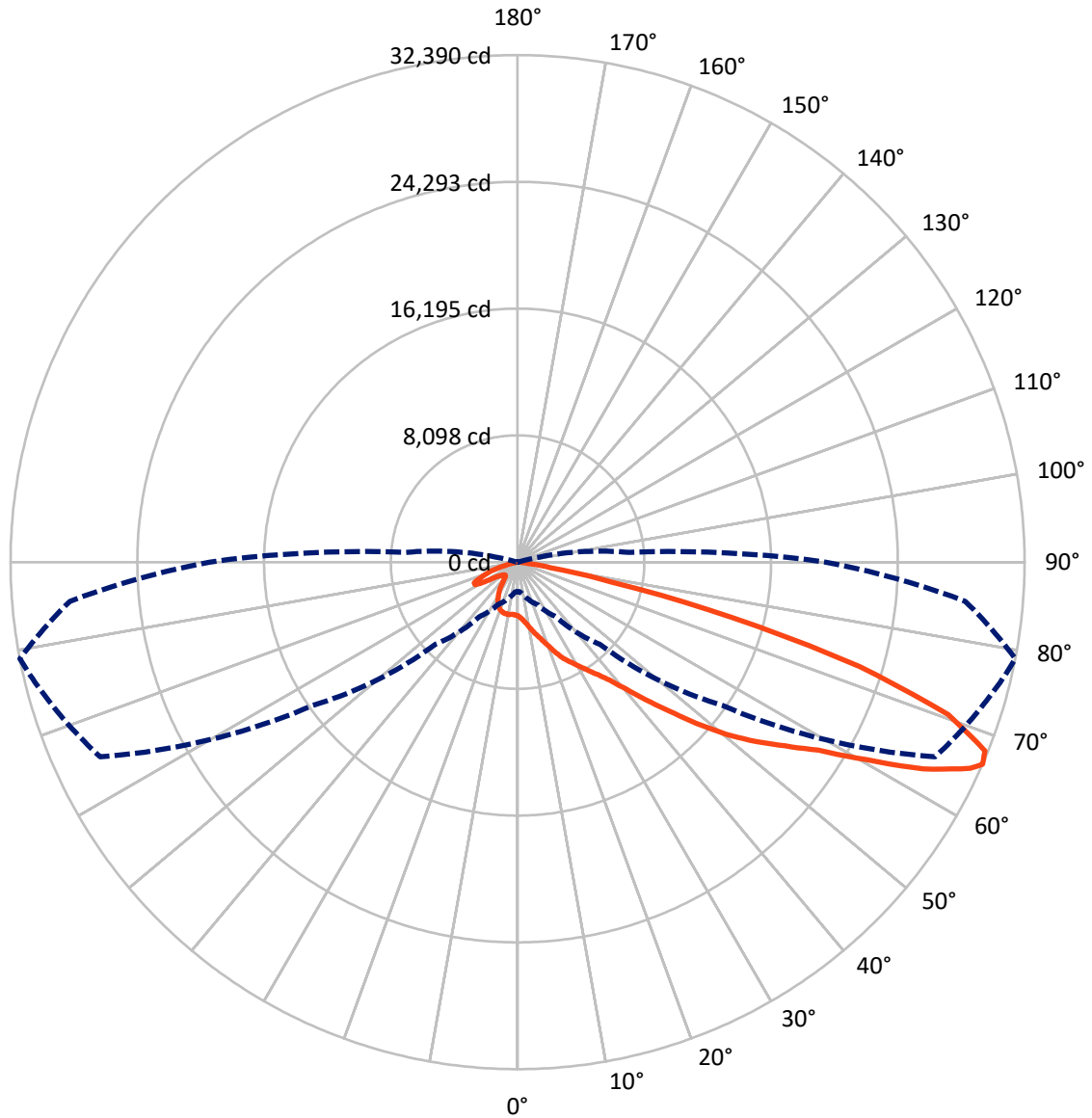
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	2067.6	0.0	2067.6
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	25468.5	0.0	25468.5
	% Fixture	92.5	0.0	92.5
Total	Lumens	27536.0	0.0	27536.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.0	1.2
10°-20°	891.7	3.2
20°-30°	1481.3	5.4
30°-40°	2544.3	9.2
40°-50°	4609.2	16.7
50°-60°	7285.9	26.5
60°-70°	7413.9	26.9
70°-80°	2827.3	10.3
80°-90°	158.5	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°	27536.0	100.0
0°-180°	27536.0	100.0

Coefficient of Utilization

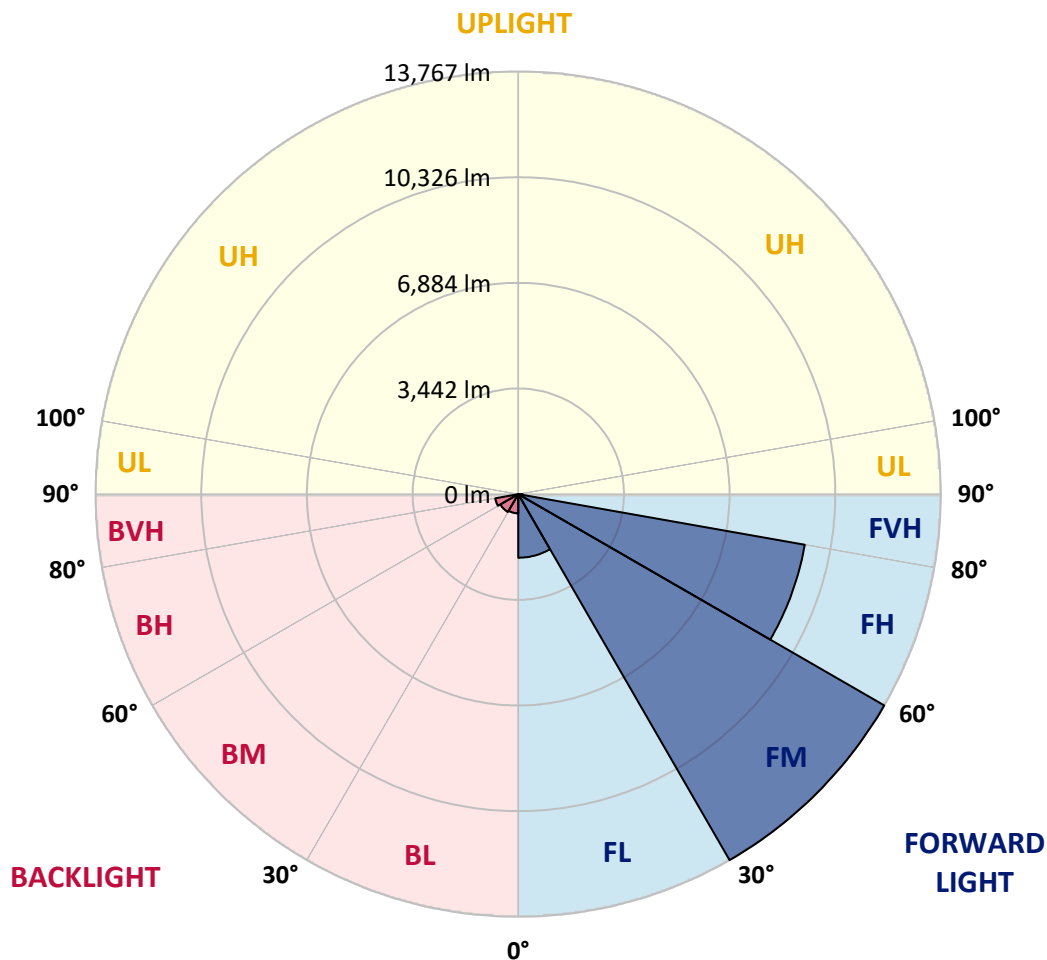


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2071.6	7.5			
FM (30°-60°)	13767.4	50.0			
FH (60°-80°)	9479.0	34.4			G4/12000
FVH (80°-90°)	150.4	0.5			G2/225
BL (0°-30°)	625.3	2.3	B2/1000		
BM (30°-60°)	672.0	2.4	B1/1000		
BH (60°-80°)	762.2	2.8	B2/1000		G2/1000
BVH (80°-90°)	8.1	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°	3425.8	3425.8	3425.8	3425.8	3425.8	3425.8	3425.8	3425.8	3425.8	3425.8	3425.8
2.5°	3880.0	3875.8	3858.8	3829.1	3790.9	3778.2	3723.0	3646.6	3604.1	3557.4	3536.2
5°	4147.5	4126.3	4177.2	4156.0	4164.5	4062.6	3994.7	3939.5	3778.2	3714.5	3612.6
7.5°	4206.9	4228.1	4223.9	4257.9	4291.8	4330.0	4283.3	4202.7	4041.4	3948.0	3837.6
10°	4206.9	4198.4	4232.4	4279.1	4376.7	4461.6	4589.0	4482.9	4359.7	4249.4	4049.8
12.5°	4130.5	4117.8	4151.7	4249.4	4423.4	4597.5	4737.6	4839.4	4665.4	4576.2	4317.3
15°	3897.0	3884.3	4024.4	4198.4	4427.7	4712.1	5005.0	5170.6	5051.7	4911.6	4622.9
17.5°	3608.4	3625.3	3773.9	4062.6	4427.7	4767.3	5140.8	5501.7	5484.7	5306.4	5005.0
20°	3510.7	3523.5	3672.0	3880.0	4296.1	4805.5	5353.1	5862.5	5964.4	5752.1	5357.3
22.5°	3697.5	3684.8	3697.5	3824.9	4206.9	4771.5	5493.2	6274.3	6456.8	6291.3	5820.1
25°	4334.3	4325.8	4219.7	4024.4	4156.0	4695.1	5565.4	6546.0	6966.2	6813.4	6193.6
27.5°	5268.2	5234.2	5068.7	4661.1	4393.7	4741.8	5684.2	6809.2	7412.0	7237.9	6529.0
30°	6270.0	6189.4	5972.9	5463.5	5009.2	4915.9	5752.1	7004.5	7908.7	7687.9	6821.9
32.5°	6962.0	7068.1	7000.2	6482.3	5786.1	5319.1	5862.5	7250.7	8367.1	8222.8	7322.8
35°	8031.8	8154.9	7870.5	7412.0	6711.5	5960.2	6096.0	7450.2	9071.8	8829.9	7789.8
37.5°	9381.7	9475.1	9271.4	8401.1	7662.4	6749.7	6575.7	7866.2	9678.9	9564.3	8388.4
40°	10060.9	10510.9	10222.3	9436.9	8643.1	7853.5	7369.5	8354.4	10735.9	10642.5	9216.2
42.5°	10999.1	11224.1	11075.5	10493.9	9666.1	9033.6	8350.2	9305.3	12017.9	12017.9	10336.9
45°	11992.5	12001.0	11992.5	11517.0	10782.6	10455.7	9674.6	10498.2	13397.6	13550.4	11678.3
47.5°	12807.5	13062.2	13041.0	12756.6	12187.8	12064.6	10999.1	11856.6	15129.6	15397.1	12985.8
50°	13227.8	13512.2	13597.1	13745.7	13720.2	13979.2	12446.7	13431.6	16623.9	17281.9	14666.9
52.5°	13113.2	13134.4	13656.6	14242.4	15176.3	15902.2	14191.5	15218.8	18372.9	19022.4	15965.9
55°	12175.0	12094.4	13168.4	13839.1	15770.6	17078.1	16606.9	17447.5	19735.6	20724.7	17307.4
57.5°	10116.1	10137.4	11130.7	12493.4	15329.1	17545.1	19188.0	20359.6	21645.9	22643.5	19192.2
60°	6983.2	6957.8	8070.0	9644.9	12735.4	16674.8	20673.8	24133.5	24201.5	25615.1	22575.6
62.5°	3926.7	3935.2	4780.0	6125.7	8910.5	13626.8	20601.6	28140.9	27852.3	29091.8	26421.7
65°	2224.4	2279.6	2861.2	3629.6	5336.1	9148.2	17719.1	29737.1	30666.8	31770.5	28756.5
66°	1880.6	1918.8	2415.5	2997.1	4257.9	7420.5	15948.9	29427.2	31549.8	32390.3	28709.8
67.5°	1456.1	1507.0	1923.0	2377.3	3124.4	5136.6	12837.3	27886.2	31711.1	32203.5	27899.0
70°	997.6	1031.6	1349.9	1804.2	2135.3	2627.7	7675.2	23055.3	28773.5	29189.5	24248.1
72.5°	700.4	717.4	946.7	1366.9	1642.9	1502.8	3807.9	16403.2	22019.5	22830.3	18861.1
75°	505.2	522.2	649.5	980.6	1282.0	984.9	1744.7	10477.0	13503.7	14140.5	11360.0
77.5°	365.1	386.3	441.5	632.5	929.7	692.0	857.5	5472.0	6367.7	6257.3	4886.1
80°	220.7	242.0	326.9	407.5	679.2	488.2	471.2	2283.9	2258.4	2143.8	1536.7
82.5°	101.9	118.9	174.1	275.9	475.5	339.6	225.0	815.1	713.2	653.7	433.0
85°	29.7	38.2	101.9	208.0	242.0	165.6	135.8	280.2	292.9	250.5	144.3
87.5°	0.0	4.2	46.7	50.9	72.2	55.2	50.9	72.2	135.8	110.4	46.7
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°	3425.8	3425.8	3425.8	3425.8	3425.8	3425.8	3425.8	3425.8	3425.8	3425.8	3425.8
2.5°	3459.8	3430.1	3357.9	3247.5	3149.9	3098.9	3026.8	2963.1	2929.1	2924.9	2920.6
5°	3544.7	3464.0	3290.0	3090.5	2941.9	2780.6	2670.2	2589.5	2513.1	2440.9	2483.4
7.5°	3659.3	3531.9	3247.5	2988.6	2665.9	2457.9	2262.7	2148.0	2080.1	2016.4	2007.9
10°	3837.6	3676.3	3217.8	2750.8	2381.5	2075.9	1876.3	1710.8	1617.4	1507.0	1549.5
12.5°	4079.6	3790.9	3107.4	2534.3	2058.9	1736.3	1451.8	1184.4	1035.8	921.2	925.4
15°	4321.5	3943.7	3005.5	2271.1	1766.0	1341.5	925.4	742.9	700.4	675.0	683.5
17.5°	4559.3	4066.8	2848.5	2003.7	1430.6	853.3	675.0	636.8	615.5	590.1	590.1
20°	4847.9	4147.5	2653.2	1757.5	984.9	632.5	577.3	551.9	517.9	483.9	488.2
22.5°	5128.1	4215.4	2428.2	1443.3	662.2	547.6	483.9	450.0	420.3	386.3	386.3
25°	5408.3	4236.6	2135.3	1035.8	534.9	437.2	377.8	331.1	301.4	271.7	275.9
27.5°	5599.3	4105.0	1859.4	662.2	428.8	331.1	263.2	225.0	199.5	169.8	169.8
30°	5709.7	3863.1	1562.2	467.0	322.6	225.0	157.1	118.9	93.4	72.2	67.9
32.5°	5820.1	3667.8	1226.8	356.6	212.3	118.9	59.4	21.2	0.0	0.0	0.0
35°	6040.8	3447.0	823.6	199.5	72.2	4.2	0.0	0.0	0.0	0.0	0.0
37.5°	6180.9	3141.4	377.8	29.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	6533.2	2988.6	93.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7106.3	2882.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	7734.6	2840.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	8570.9	2954.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	9453.9	3264.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	10421.8	3557.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	11266.6	3909.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	12820.3	4741.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	15609.3	6376.2	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	18750.7	7590.3	46.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	19901.1	7560.6	80.7	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	19697.4	7144.5	80.7	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	18640.3	6346.5	72.2	8.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	16008.4	5242.7	72.2	12.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	12204.7	4083.8	67.9	17.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	7365.3	2173.5	55.2	21.2	8.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2933.4	764.1	42.5	17.0	8.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	793.8	229.2	25.5	17.0	12.7	4.2	0.0	0.0	0.0	0.0	0.0
82.5°	208.0	84.9	21.2	17.0	8.5	4.2	0.0	0.0	0.0	0.0	0.0
85°	80.7	34.0	17.0	12.7	12.7	8.5	4.2	0.0	0.0	0.0	0.0
87.5°	25.5	12.7	12.7	8.5	8.5	4.2	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)