

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: P482747

Luminaire Tested: **IFLD-L-SA7D-727-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482747
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-727-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

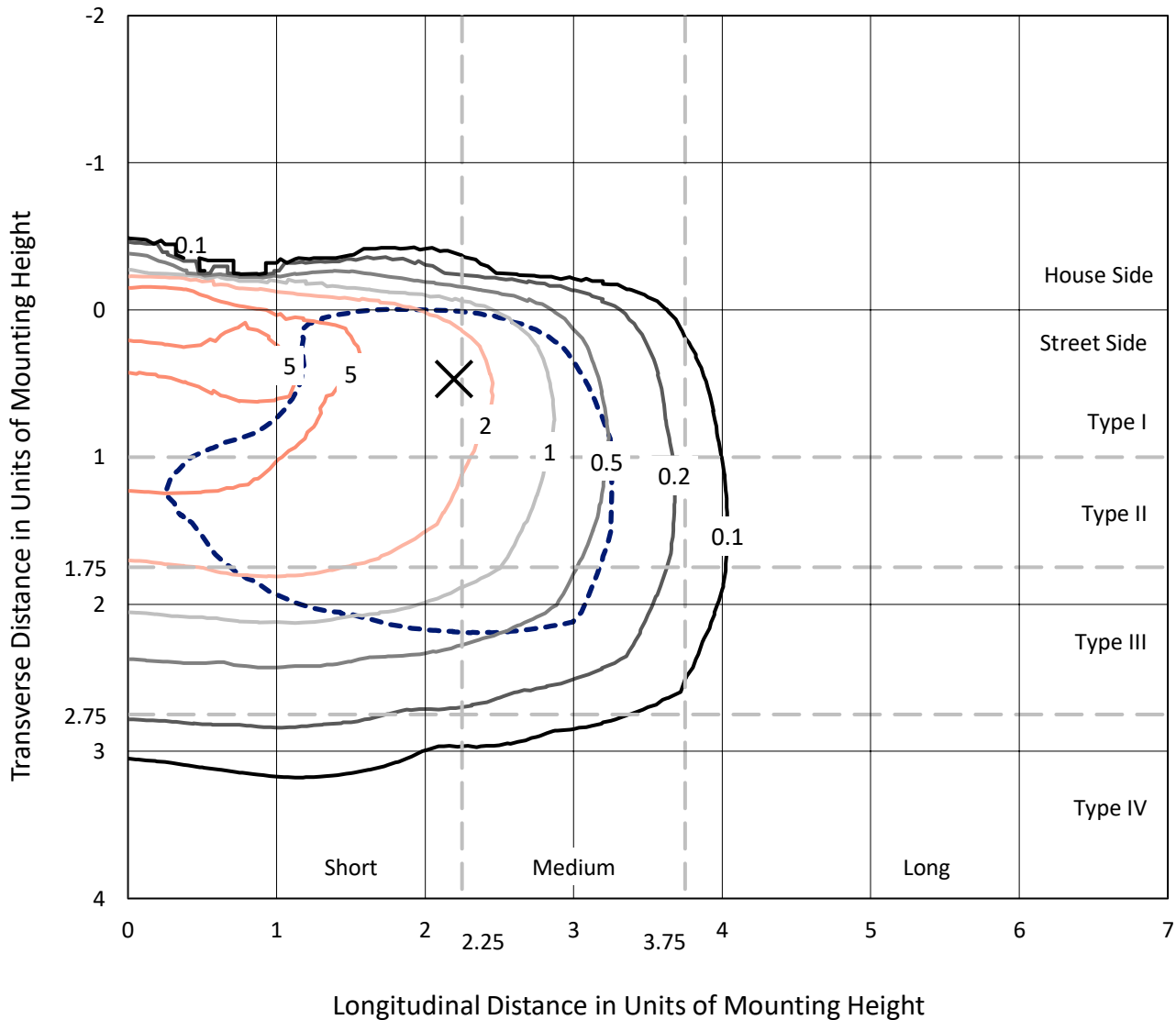
Lumens per Lamp: N/A
Luminaire Lumens: 29241.9 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (A_{in}): 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

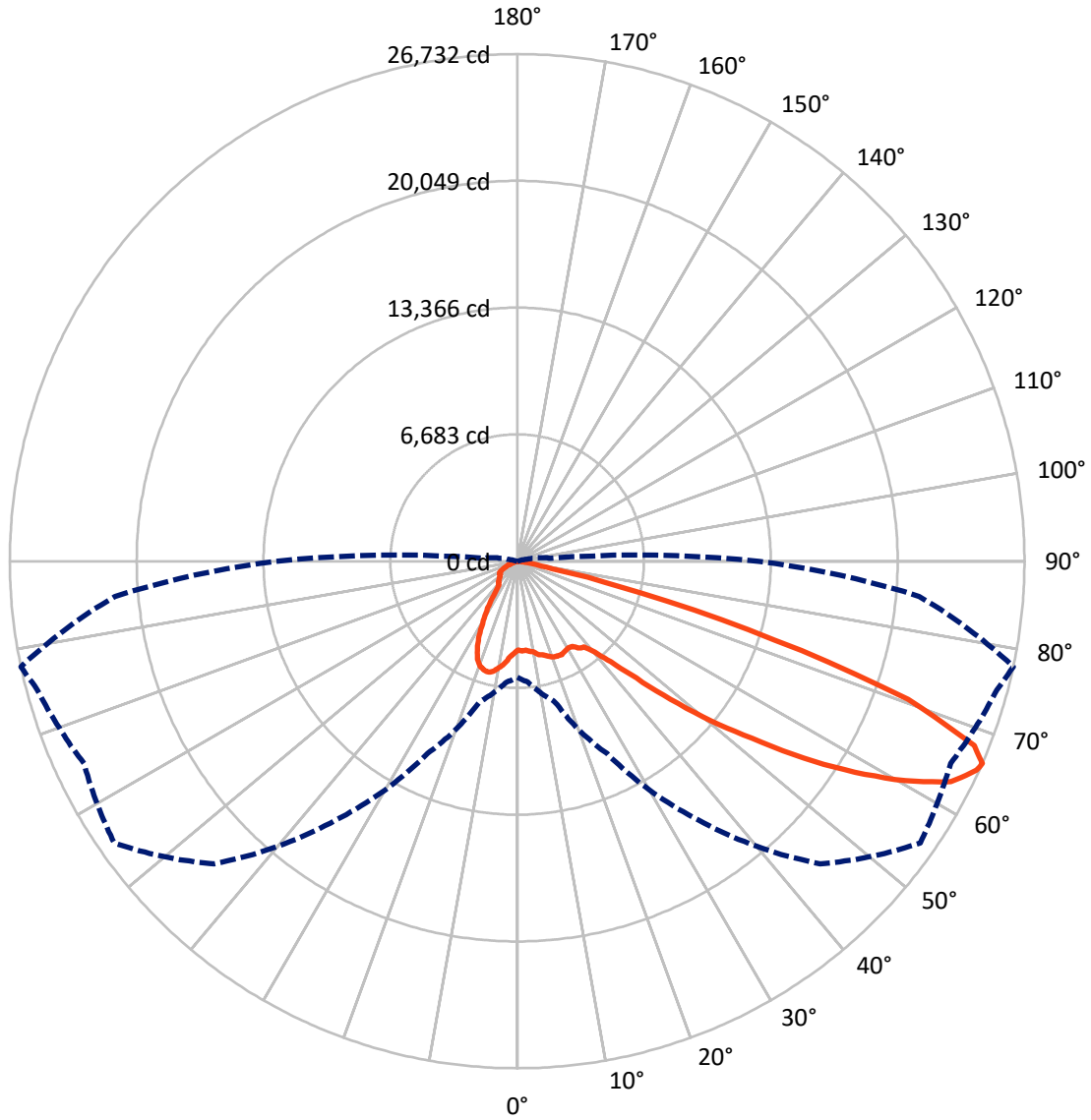
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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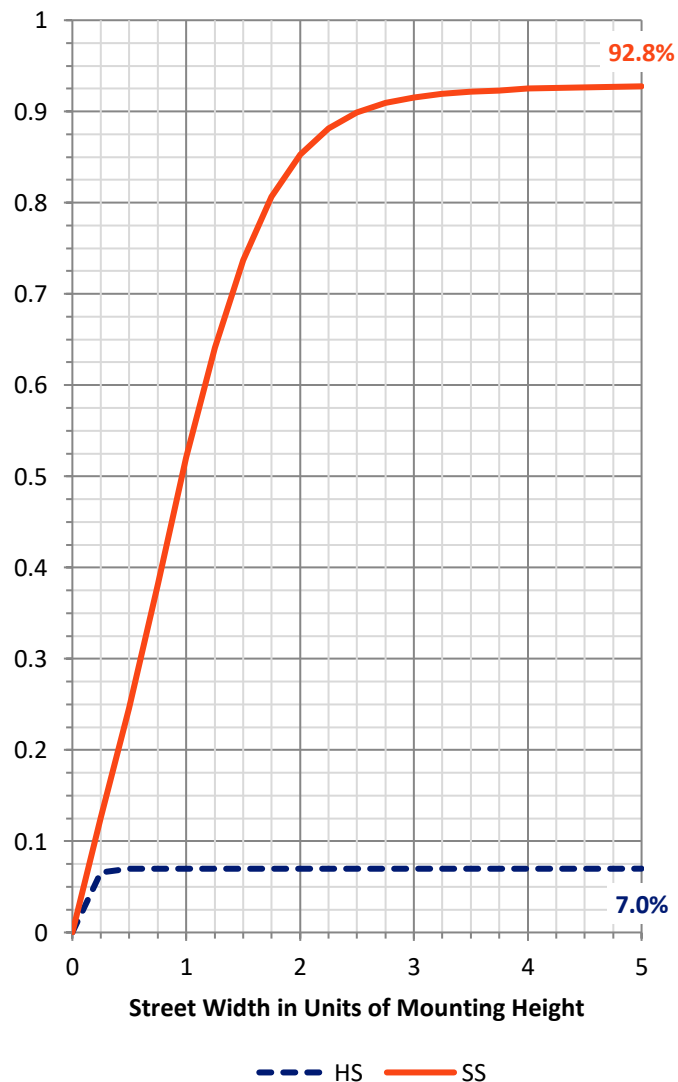
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2055.8	0.0	2055.8
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	27186.0	0.0	27186.0
	% Fixture	93.0	0.0	93.0
Total	Lumens	29241.9	0.0	29241.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.5	1.5
10°-20°	967.2	3.3
20°-30°	1382.5	4.7
30°-40°	2366.5	8.1
40°-50°	4271.2	14.6
50°-60°	7304.3	25.0
60°-70°	8990.3	30.7
70°-80°	3398.8	11.6
80°-90°	132.8	0.5
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°	29241.9	100.0
0°-180°	29241.9	100.0

Coefficient of Utilization

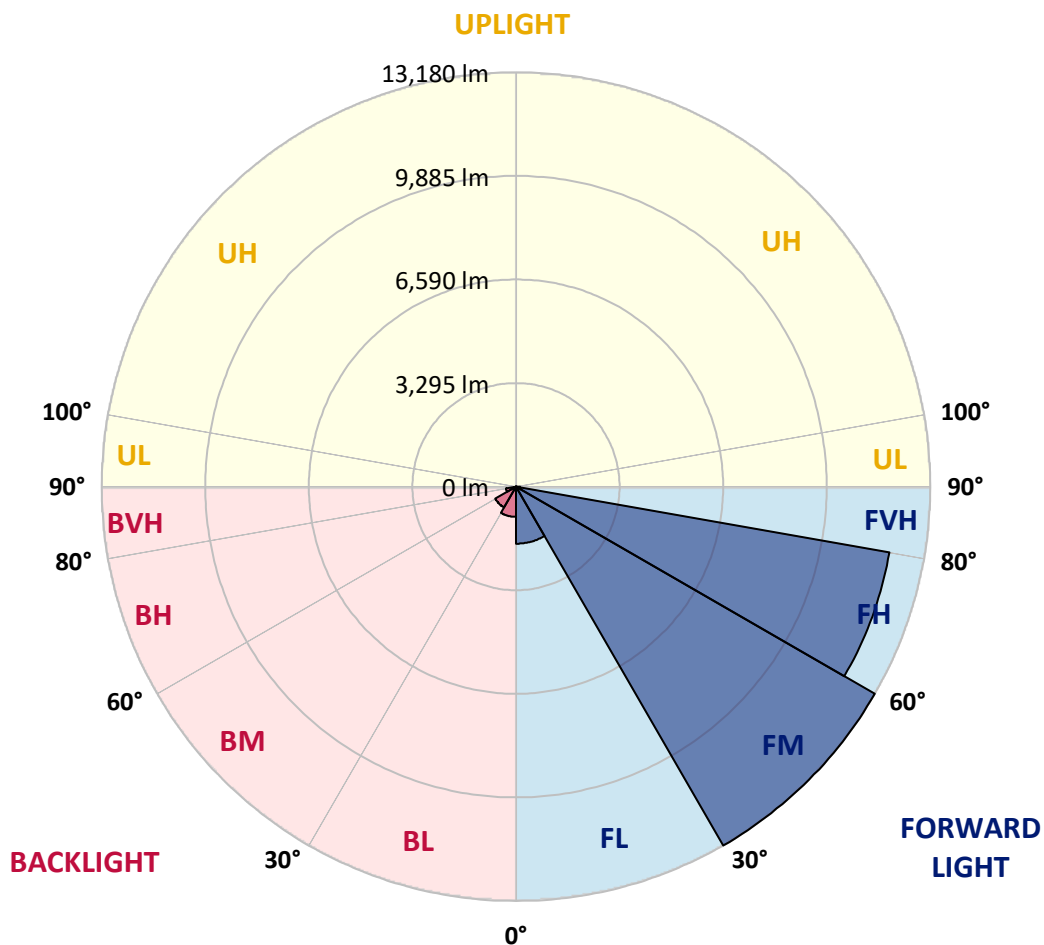


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1815.4	6.2			
FM (30°-60°)	13179.9	45.1			
FH (60°-80°)	12063.3	41.3			G5
FVH (80°-90°)	127.4	0.4			G2/225
BL (0°-30°)	962.8	3.3	B2/1000		
BM (30°-60°)	762.0	2.6	B1/1000		
BH (60°-80°)	325.7	1.1	B1/500		G1/500
BVH (80°-90°)	5.3	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-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	4683.6	4683.6	4683.6	4683.6	4683.6	4683.6	4683.6	4683.6	4683.6	4683.6	4683.6
2.5°	4308.0	4268.3	4308.0	4365.5	4396.4	4422.9	4515.7	4595.2	4679.2	4736.6	4718.9
5°	3994.3	4069.4	4078.3	4095.9	4144.5	4303.6	4356.6	4493.6	4701.3	4718.9	4798.5
7.5°	3746.9	3724.8	3782.2	3897.1	4020.8	4113.6	4268.3	4506.9	4723.4	4798.5	4953.1
10°	3389.0	3433.2	3495.0	3609.9	3760.1	3989.9	4263.8	4529.0	4838.2	4864.8	5152.0
12.5°	3194.6	3150.4	3247.6	3366.9	3623.2	3835.2	4171.1	4489.2	4908.9	5054.8	5386.1
15°	3035.5	3057.6	3150.4	3229.9	3442.0	3711.5	4104.8	4586.4	5028.2	5129.9	5633.6
17.5°	2969.2	2956.0	3026.7	3106.2	3366.9	3671.8	4078.3	4590.8	5134.3	5266.8	5801.5
20°	3000.2	3026.7	3004.6	3079.7	3243.2	3552.5	4118.0	4674.8	5213.8	5395.0	5982.6
22.5°	3486.2	3450.8	3274.1	3132.7	3141.5	3503.9	4087.1	4727.8	5284.5	5430.3	6106.4
25°	4754.3	4564.3	4126.9	3583.4	3225.5	3371.3	4051.8	4710.1	5271.3	5452.4	6181.5
27.5°	6031.2	5867.8	5439.2	4595.2	3565.7	3318.3	3928.0	4723.4	5205.0	5372.9	6057.8
30°	7378.9	7467.2	6831.0	5828.0	4458.3	3609.9	3848.5	4652.7	5160.8	5302.2	6084.3
32.5°	8761.9	8726.5	8342.1	7255.2	5735.2	4255.0	3976.6	4723.4	5218.2	5355.2	6238.9
35°	9844.4	9720.7	9331.9	8350.9	6791.2	5227.1	4418.5	5059.2	5470.1	5633.6	6459.8
37.5°	10379.0	10432.1	10206.7	9353.9	7948.9	6128.4	4970.8	5059.2	5549.6	5739.6	6817.7
40°	10794.4	10953.4	10869.5	10595.5	9097.7	7144.7	5580.6	5372.9	5951.7	6309.6	7489.3
42.5°	11293.7	11218.5	11713.4	11461.6	10600.0	8426.1	6649.8	6119.6	6901.7	7246.3	8496.8
45°	11558.8	11846.0	12221.5	12544.1	11991.8	10025.6	8046.1	7440.7	8355.4	8792.8	9994.6
47.5°	12239.2	12354.1	12963.9	13370.4	13122.9	11854.8	10166.9	9371.6	10184.6	10873.9	11709.0
50°	12636.9	12482.2	13335.0	13953.6	14095.0	13370.4	12066.9	11448.3	12358.5	13237.8	13312.9
52.5°	12287.8	12729.7	13582.4	14691.5	15084.7	14722.4	14298.2	14028.7	14669.4	15482.4	15120.1
55°	11063.9	11364.4	13441.0	15500.1	16768.2	16600.3	16993.5	16816.8	17461.9	18323.5	17232.1
57.5°	10078.6	10454.1	12279.0	15919.8	18336.7	18831.6	19326.5	19216.0	19993.7	20987.8	19021.6
60°	9464.4	9680.9	11439.5	15813.8	19264.6	21138.1	22255.9	21478.3	22746.4	23506.4	20422.3
62.5°	8399.6	8536.5	10215.6	14408.7	19543.0	22768.5	24664.0	23608.0	24708.2	25636.1	21429.7
65°	6733.8	7104.9	8492.3	12305.5	17704.9	23068.9	26166.3	24924.7	25989.6	26599.3	21734.6
66°	6128.4	6398.0	7670.5	11192.0	16657.7	22569.7	25914.4	25198.7	26175.1	26731.9	21266.2
67.5°	5085.7	5319.9	6331.7	9605.8	14514.7	21469.4	26091.2	25013.1	26316.5	25976.3	20638.8
70°	3366.9	3517.1	4330.1	6495.2	10109.5	17563.5	24200.1	23563.8	23135.2	21858.3	16136.3
72.5°	1573.0	1789.5	2704.1	3936.9	5929.6	12287.8	19733.0	18880.2	16224.7	14183.4	10180.2
75°	711.4	808.6	1484.6	2257.8	2659.9	6367.0	12729.7	11496.9	8077.0	6707.3	4458.3
77.5°	384.4	437.4	724.6	1073.7	967.6	2231.3	6300.8	5240.3	2545.1	1864.6	1294.6
80°	296.0	349.1	605.3	614.2	357.9	578.8	2341.8	1621.6	636.3	481.6	309.3
82.5°	154.6	220.9	477.2	397.7	181.2	234.2	724.6	450.7	198.8	159.1	132.6
85°	61.9	97.2	269.5	265.1	106.0	79.5	203.3	137.0	79.5	66.3	61.9
87.5°	4.4	4.4	145.8	101.6	66.3	22.1	30.9	30.9	39.8	35.3	44.2
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°	4683.6	4683.6	4683.6	4683.6	4683.6	4683.6	4683.6	4683.6	4683.6	4683.6	4683.6
2.5°	4798.5	4851.5	4860.3	5006.1	5037.1	5006.1	5085.7	5072.4	5107.8	5081.3	5032.7
5°	4908.9	4984.1	5129.9	5240.3	5240.3	5152.0	5081.3	4988.5	4851.5	4816.2	4789.6
7.5°	5098.9	5337.5	5470.1	5399.4	5258.0	4926.6	4467.1	4131.3	3848.5	3742.5	3693.9
10°	5434.7	5567.3	5721.9	5434.7	4847.1	4144.5	3371.3	2863.2	2465.5	2377.1	2310.9
12.5°	5651.2	5863.3	5951.7	5240.3	4087.1	3039.9	2200.4	1626.0	1347.6	1135.6	1100.2
15°	5934.0	6177.0	5995.9	4714.5	3221.1	1992.7	1140.0	711.4	578.8	543.5	543.5
17.5°	6128.4	6393.6	5814.7	4060.6	2284.4	1060.4	565.6	490.5	481.6	486.0	477.2
20°	6468.7	6627.7	5540.8	3300.6	1365.3	543.5	455.1	437.4	428.6	441.8	433.0
22.5°	6596.8	6742.6	5094.5	2390.4	614.2	362.3	340.2	327.0	335.8	331.4	327.0
25°	6588.0	6663.1	4361.1	1369.7	181.2	141.4	128.1	128.1	119.3	123.7	119.3
27.5°	6654.2	6468.7	3539.2	406.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	6689.6	6155.0	2518.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	6707.3	5991.5	1621.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	6844.2	5664.5	693.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	6937.0	5244.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	7321.4	5112.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	7820.7	4864.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	8514.4	4498.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	9433.5	4281.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	10118.3	3941.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	10988.8	3738.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	12022.7	3746.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	12963.9	3685.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	13445.5	3150.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	13343.8	2549.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	12990.4	2001.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	12747.3	1771.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	12009.5	1418.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	9557.2	972.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6079.8	596.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	2801.3	273.9	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	879.3	167.9	35.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	229.8	106.0	35.3	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	119.3	75.1	30.9	13.3	8.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	75.1	30.9	13.3	8.8	8.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	66.3	17.7	8.8	8.8	4.4	0.0	0.0	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)