

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: P482812

Luminaire Tested: **IFLD-S-SA6A-735-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482812
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-735-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R
distribution lens with House Side Shield
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

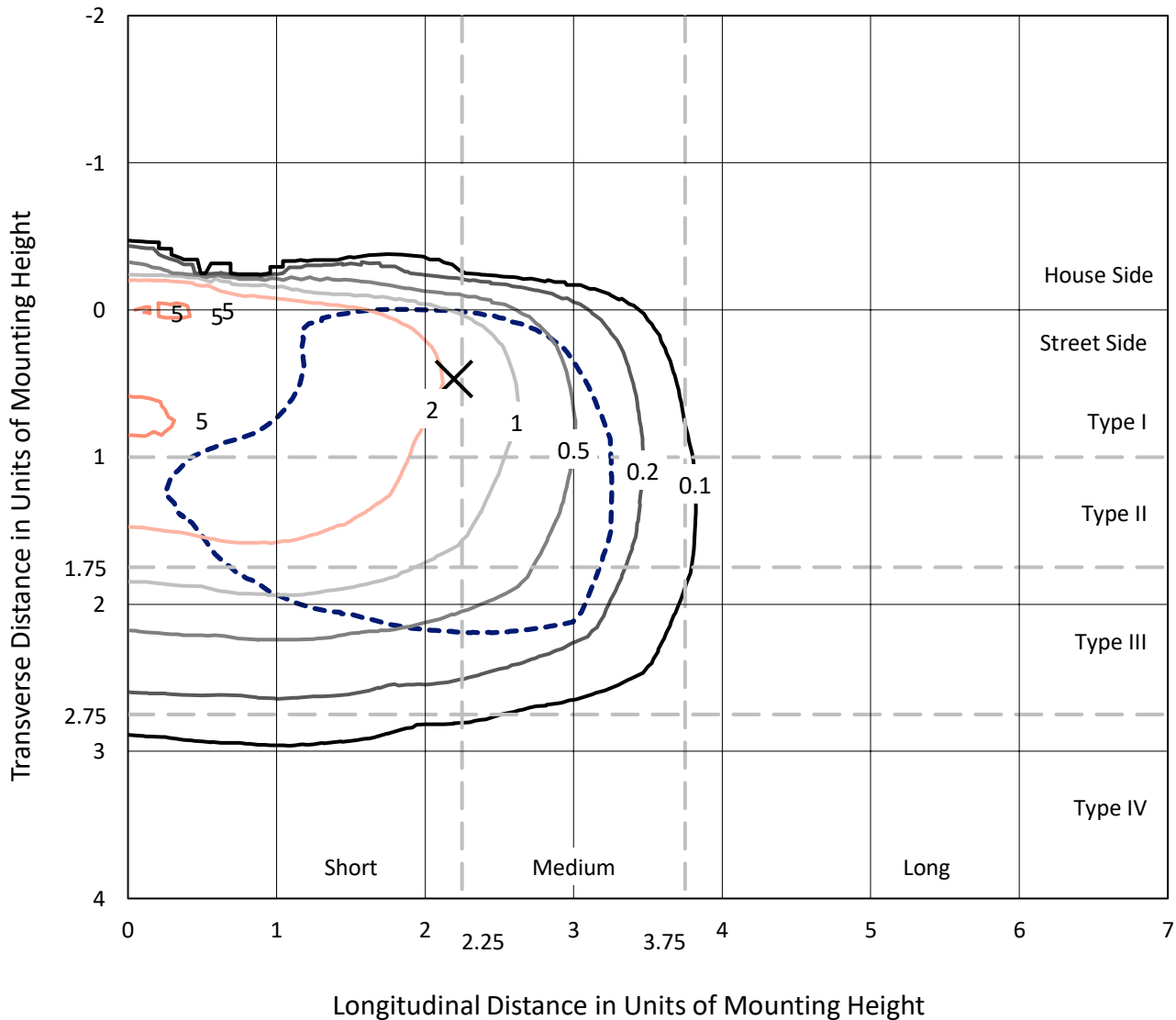
Lumens per Lamp: N/A
Luminaire Lumens: 19081.9 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 189.6
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

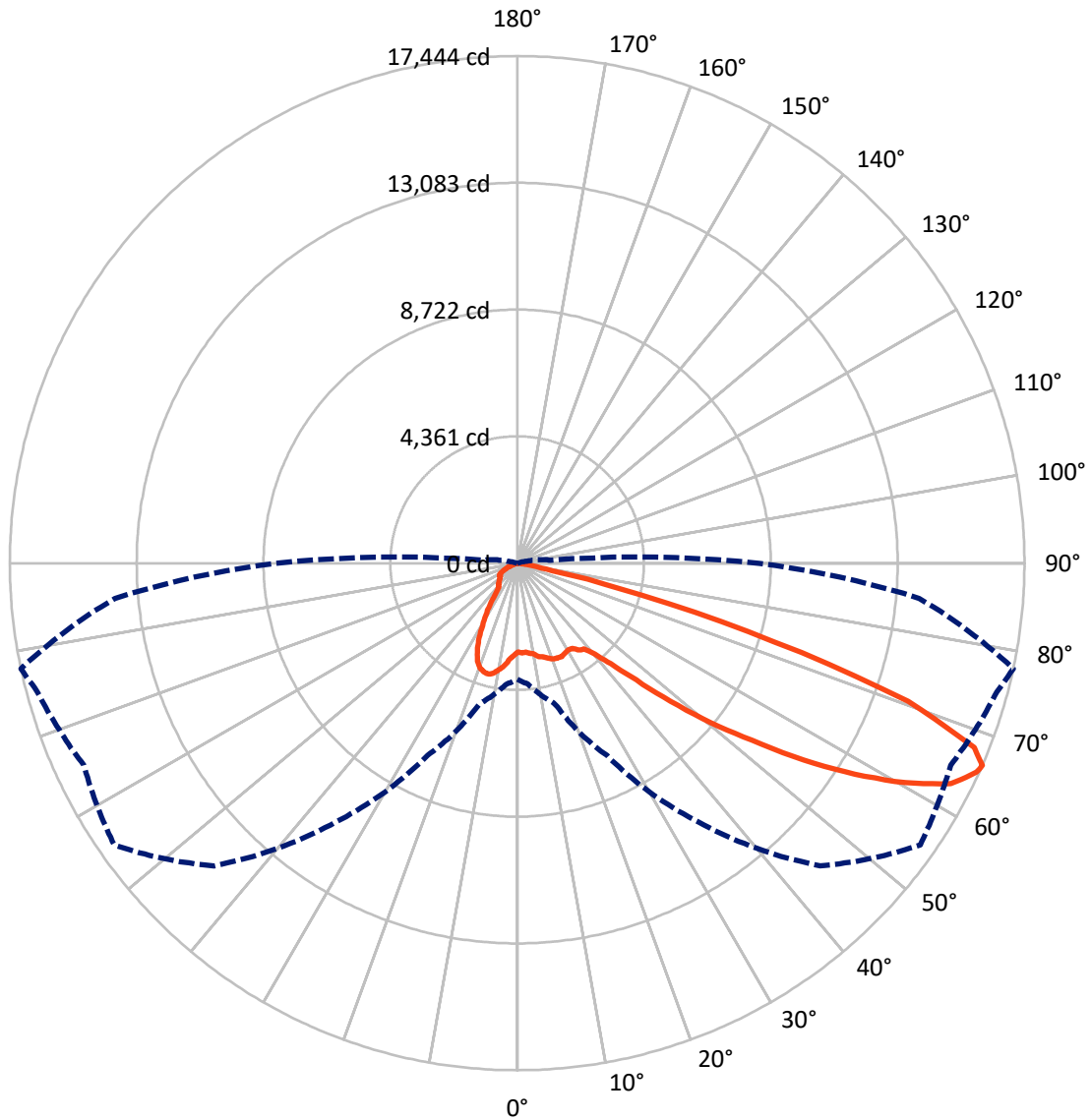
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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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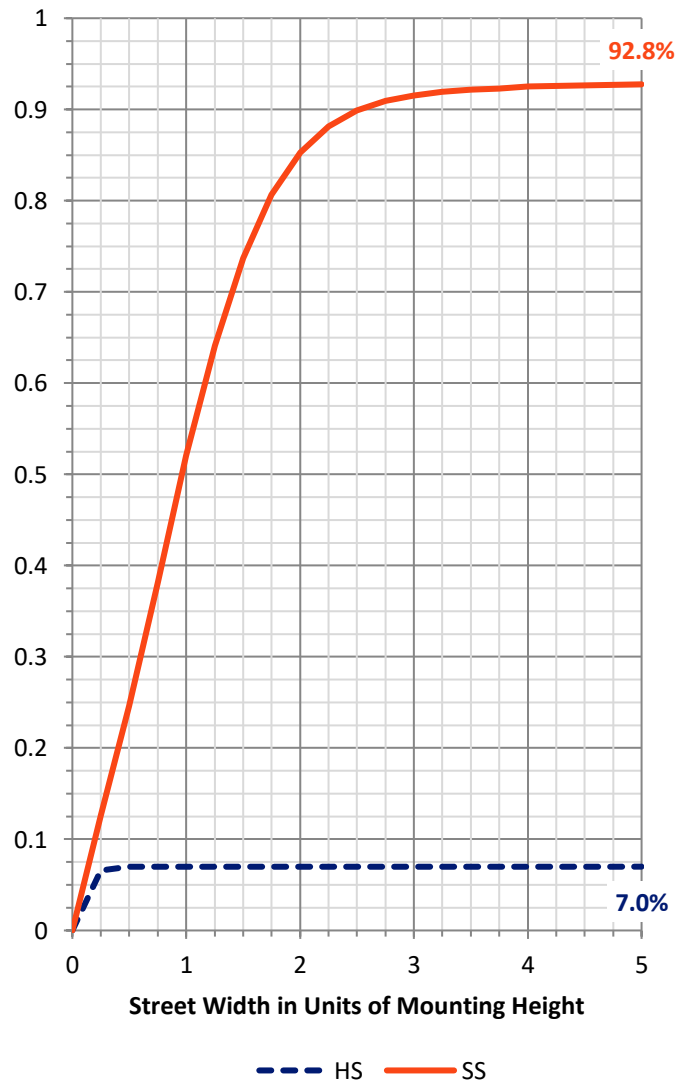
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1341.5	0.0	1341.5
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	17740.3	0.0	17740.3
	% Fixture	93.0	0.0	93.0
Total	Lumens	19081.9	0.0	19081.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.6	1.5
10°-20°	631.2	3.3
20°-30°	902.1	4.7
30°-40°	1544.2	8.1
40°-50°	2787.2	14.6
50°-60°	4766.4	25.0
60°-70°	5866.6	30.7
70°-80°	2217.9	11.6
80°-90°	86.6	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°	19081.9	100.0
0°-180°	19081.9	100.0

Coefficient of Utilization



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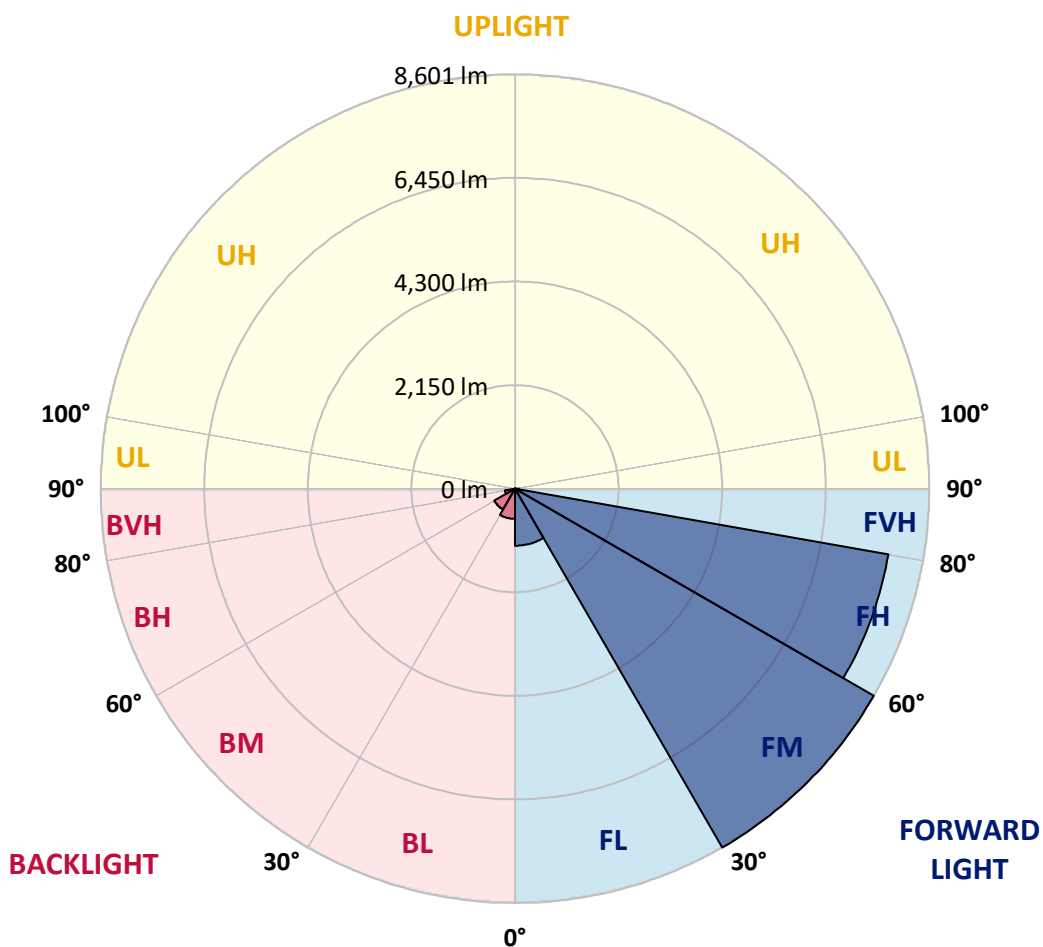
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1184.6	6.2			
FM (30°-60°)	8600.6	45.1			
FH (60°-80°)	7872.0	41.3			G4/12000
FVH (80°-90°)	83.2	0.4			G1/100
BL (0°-30°)	628.3	3.3	B2/1000		
BM (30°-60°)	497.2	2.6	B1/1000		
BH (60°-80°)	212.5	1.1	B1/500		G1/500
BVH (80°-90°)	3.5	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3
2.5°	2811.2	2785.3	2811.2	2848.7	2868.9	2886.2	2946.7	2998.6	3053.4	3090.9	3079.4
5°	2606.5	2655.5	2661.3	2672.8	2704.5	2808.3	2842.9	2932.3	3067.8	3079.4	3131.3
7.5°	2445.0	2430.6	2468.1	2543.1	2623.8	2684.3	2785.3	2941.0	3082.2	3131.3	3232.2
10°	2211.5	2240.3	2280.7	2355.7	2453.7	2603.6	2782.4	2955.4	3157.2	3174.5	3361.9
12.5°	2084.6	2055.8	2119.2	2197.1	2364.3	2502.7	2721.8	2929.4	3203.3	3298.5	3514.7
15°	1980.8	1995.2	2055.8	2107.7	2246.1	2422.0	2678.6	2992.9	3281.2	3347.5	3676.2
17.5°	1937.6	1928.9	1975.1	2027.0	2197.1	2396.0	2661.3	2995.7	3350.4	3436.9	3785.8
20°	1957.8	1975.1	1960.6	2009.7	2116.3	2318.2	2687.2	3050.5	3402.3	3520.5	3904.0
22.5°	2274.9	2251.9	2136.5	2044.3	2050.0	2286.5	2667.0	3085.1	3448.4	3543.6	3984.7
25°	3102.4	2978.4	2693.0	2338.4	2104.8	2200.0	2644.0	3073.6	3439.8	3558.0	4033.7
27.5°	3935.7	3829.0	3549.3	2998.6	2326.8	2165.4	2563.3	3082.2	3396.5	3506.1	3953.0
30°	4815.1	4872.8	4457.6	3803.1	2909.2	2355.7	2511.4	3036.1	3367.7	3460.0	3970.3
32.5°	5717.6	5694.5	5443.7	4734.4	3742.5	2776.6	2595.0	3082.2	3405.2	3494.6	4071.2
35°	6424.0	6343.3	6089.5	5449.4	4431.6	3410.9	2883.3	3301.4	3569.5	3676.2	4215.4
37.5°	6772.9	6807.5	6660.4	6103.9	5187.1	3999.1	3243.7	3301.4	3621.4	3745.4	4448.9
40°	7043.9	7147.7	7092.9	6914.1	5936.7	4662.3	3641.6	3506.1	3883.8	4117.3	4887.2
42.5°	7369.7	7320.7	7643.6	7479.3	6917.0	5498.4	4339.4	3993.4	4503.7	4728.6	5544.6
45°	7542.7	7730.1	7975.2	8185.7	7825.3	6542.2	5250.5	4855.5	5452.3	5737.8	6522.0
47.5°	7986.7	8061.7	8459.6	8724.9	8563.4	7735.9	6634.5	6115.5	6646.0	7095.8	7640.7
50°	8246.2	8145.3	8701.8	9105.4	9197.7	8724.9	7874.3	7470.6	8064.6	8638.4	8687.4
52.5°	8018.4	8306.8	8863.3	9587.0	9843.6	9607.1	9330.3	9154.5	9572.5	10103.1	9866.6
55°	7219.8	7415.8	8771.0	10114.6	10942.1	10832.5	11089.2	10973.8	11394.8	11957.0	11244.9
57.5°	6576.8	6821.9	8012.7	10388.5	11965.7	12288.6	12611.5	12539.5	13046.9	13695.7	12412.6
60°	6176.0	6317.3	7464.9	10319.3	12571.2	13793.7	14523.2	14015.7	14843.2	15339.1	13326.6
62.5°	5481.1	5570.5	6666.2	9402.4	12752.8	14857.6	16094.6	15405.5	16123.4	16728.9	13984.0
65°	4394.1	4636.3	5541.7	8030.0	11553.4	15053.7	17074.9	16264.7	16959.5	17357.4	14182.9
66°	3999.1	4175.0	5005.4	7303.4	10870.0	14727.9	16910.5	16443.4	17080.6	17443.9	13877.3
67.5°	3318.7	3471.5	4131.8	6268.3	9471.6	14009.9	17025.9	16322.3	17172.9	16950.9	13467.9
70°	2197.1	2295.1	2825.6	4238.4	6597.0	11461.1	15791.8	15376.6	15096.9	14263.7	10529.8
72.5°	1026.5	1167.7	1764.6	2569.0	3869.4	8018.4	12876.8	12320.3	10587.5	9255.4	6643.1
75°	464.2	527.6	968.8	1473.4	1735.7	4154.8	8306.8	7502.3	5270.7	4376.8	2909.2
77.5°	250.8	285.4	472.9	700.6	631.4	1456.1	4111.6	3419.6	1660.8	1216.8	844.8
80°	193.2	227.8	395.0	400.8	233.5	377.7	1528.1	1058.2	415.2	314.3	201.8
82.5°	100.9	144.2	311.4	259.5	118.2	152.8	472.9	294.1	129.7	103.8	86.5
85°	40.4	63.4	175.9	173.0	69.2	51.9	132.6	89.4	51.9	43.2	40.4
87.5°	2.9	2.9	95.1	66.3	43.2	14.4	20.2	20.2	25.9	23.1	28.8
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°	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3	3056.3
2.5°	3131.3	3165.9	3171.6	3266.8	3287.0	3266.8	3318.7	3310.0	3333.1	3315.8	3284.1
5°	3203.3	3252.4	3347.5	3419.6	3419.6	3361.9	3315.8	3255.2	3165.9	3142.8	3125.5
7.5°	3327.3	3483.0	3569.5	3523.4	3431.1	3214.9	2915.0	2695.9	2511.4	2442.2	2410.4
10°	3546.5	3633.0	3733.9	3546.5	3163.0	2704.5	2200.0	1868.4	1608.9	1551.2	1508.0
12.5°	3687.7	3826.1	3883.8	3419.6	2667.0	1983.7	1435.9	1061.1	879.4	741.0	717.9
15°	3872.3	4030.8	3912.6	3076.5	2101.9	1300.4	743.9	464.2	377.7	354.6	354.6
17.5°	3999.1	4172.1	3794.4	2649.7	1490.7	692.0	369.1	320.0	314.3	317.2	311.4
20°	4221.1	4324.9	3615.7	2153.8	890.9	354.6	297.0	285.4	279.7	288.3	282.6
22.5°	4304.8	4399.9	3324.4	1559.9	400.8	236.4	222.0	213.4	219.1	216.2	213.4
25°	4299.0	4348.0	2845.8	893.8	118.2	92.3	83.6	83.6	77.8	80.7	77.8
27.5°	4342.2	4221.1	2309.5	265.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	4365.3	4016.4	1643.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4376.8	3909.7	1058.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	4466.2	3696.4	452.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4526.8	3422.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4777.6	3336.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5103.4	3174.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	5556.1	2935.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6155.8	2793.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	6602.7	2571.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7170.8	2439.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	7845.4	2445.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8459.6	2404.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	8773.9	2055.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8707.6	1663.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8476.9	1306.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	8318.3	1156.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7836.8	925.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	6236.6	634.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	3967.4	389.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1828.0	178.8	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	573.8	109.6	23.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	149.9	69.2	23.1	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	77.8	49.0	20.2	8.6	5.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	49.0	20.2	8.6	5.8	5.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	43.2	11.5	5.8	5.8	2.9	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)