

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: P482008

Luminaire Tested: **IFLD-L-SA8A-730-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482008
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-730-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

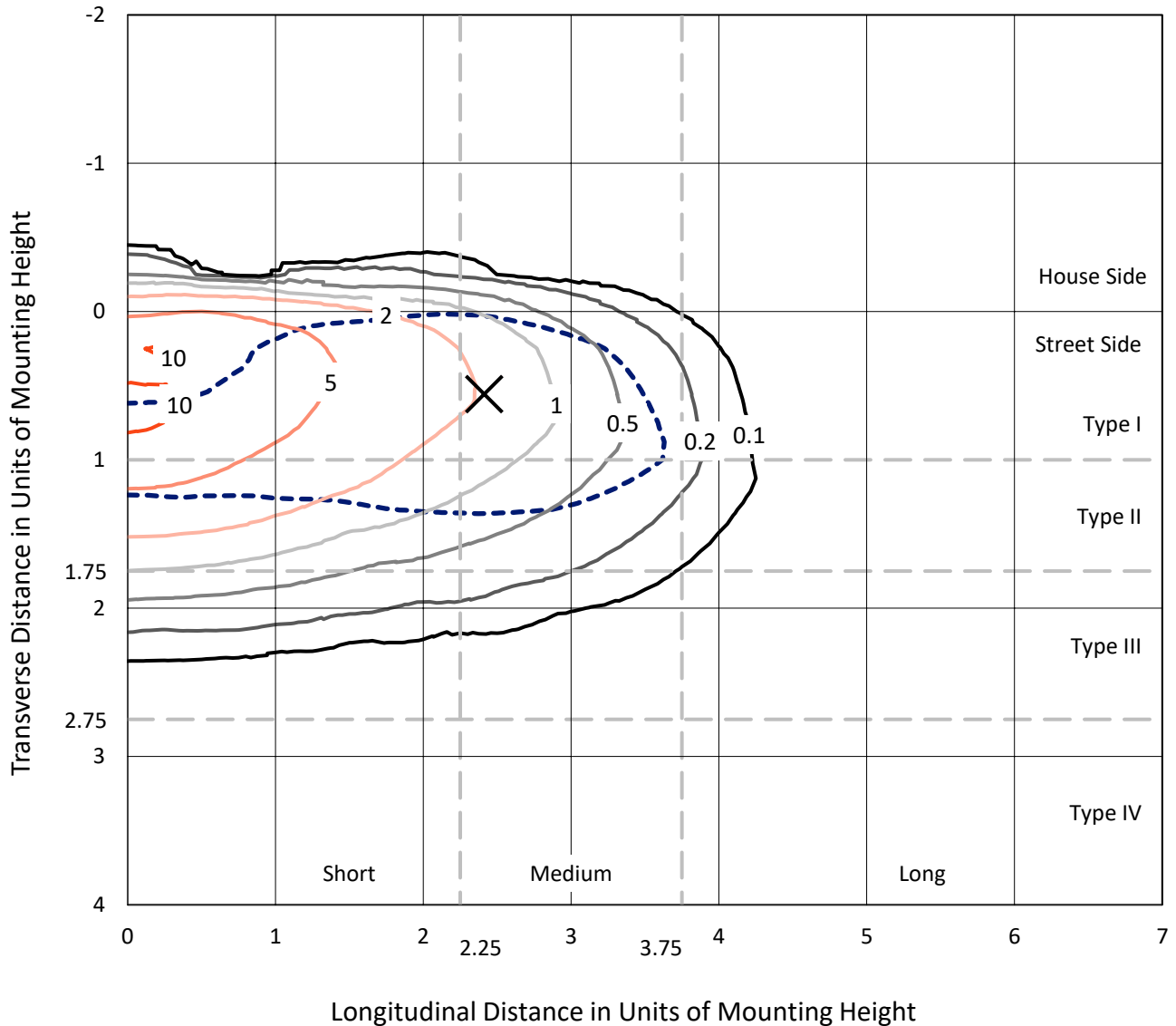
Lumens per Lamp: N/A
Luminaire Lumens: 24524.8 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 247.8
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

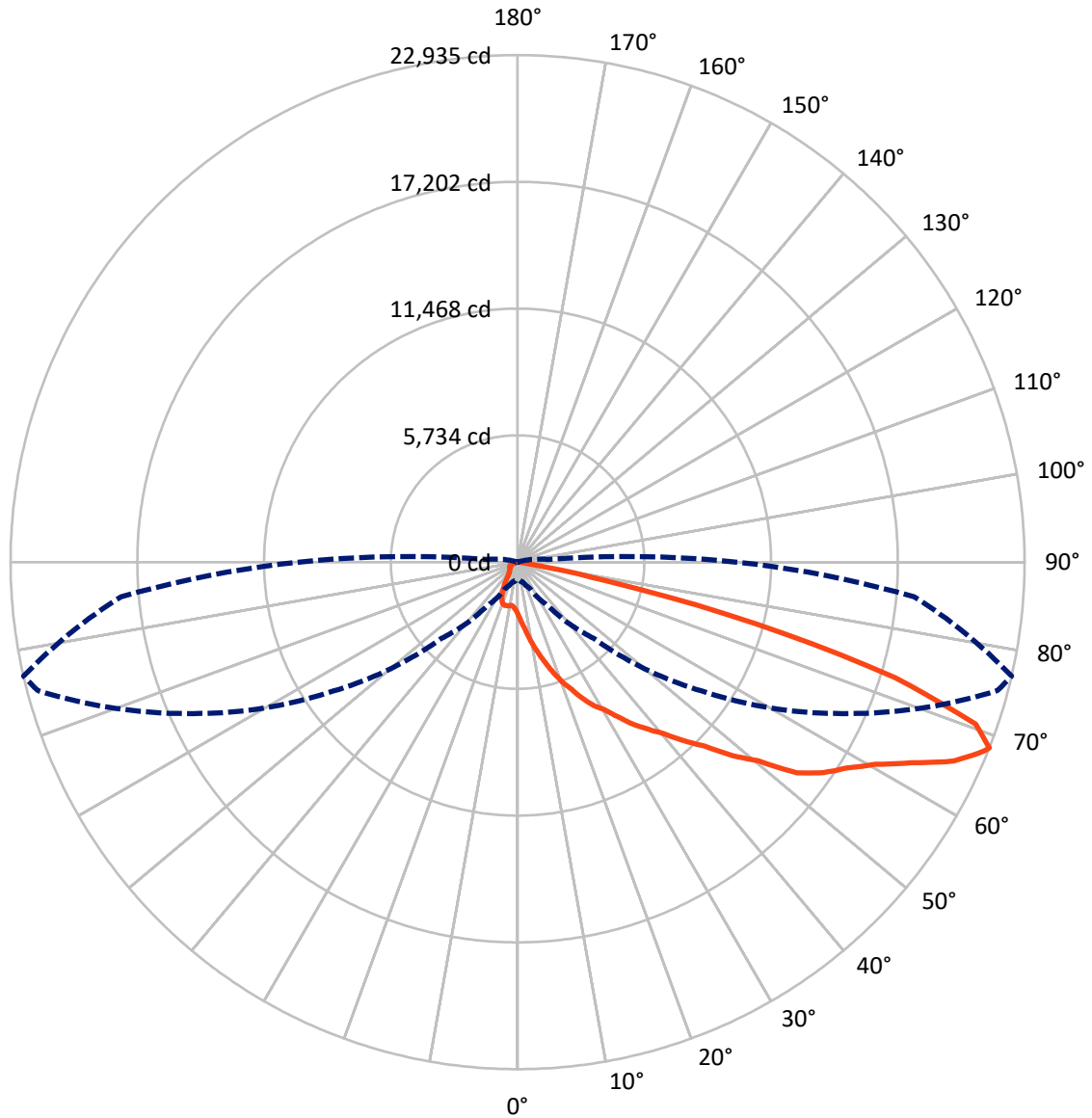
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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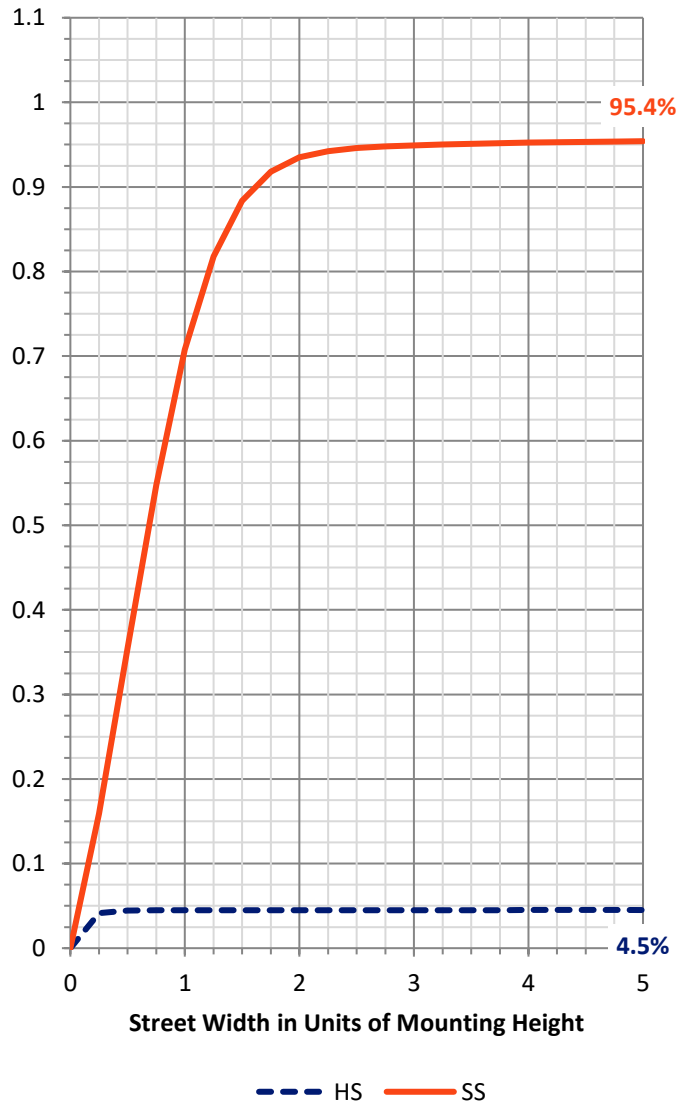
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1112.2	0.0	1112.2
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	23412.6	0.0	23412.6
	% Fixture	95.5	0.0	95.5
Total	Lumens	24524.8	0.0	24524.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.3	1.1
10°-20°	1011.8	4.1
20°-30°	1960.9	8.0
30°-40°	3418.5	13.9
40°-50°	5006.7	20.4
50°-60°	5882.1	24.0
60°-70°	4966.9	20.3
70°-80°	1925.3	7.9
80°-90°	78.3	0.3
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°	24524.8	100.0
0°-180°	24524.8	100.0

Coefficient of Utilization



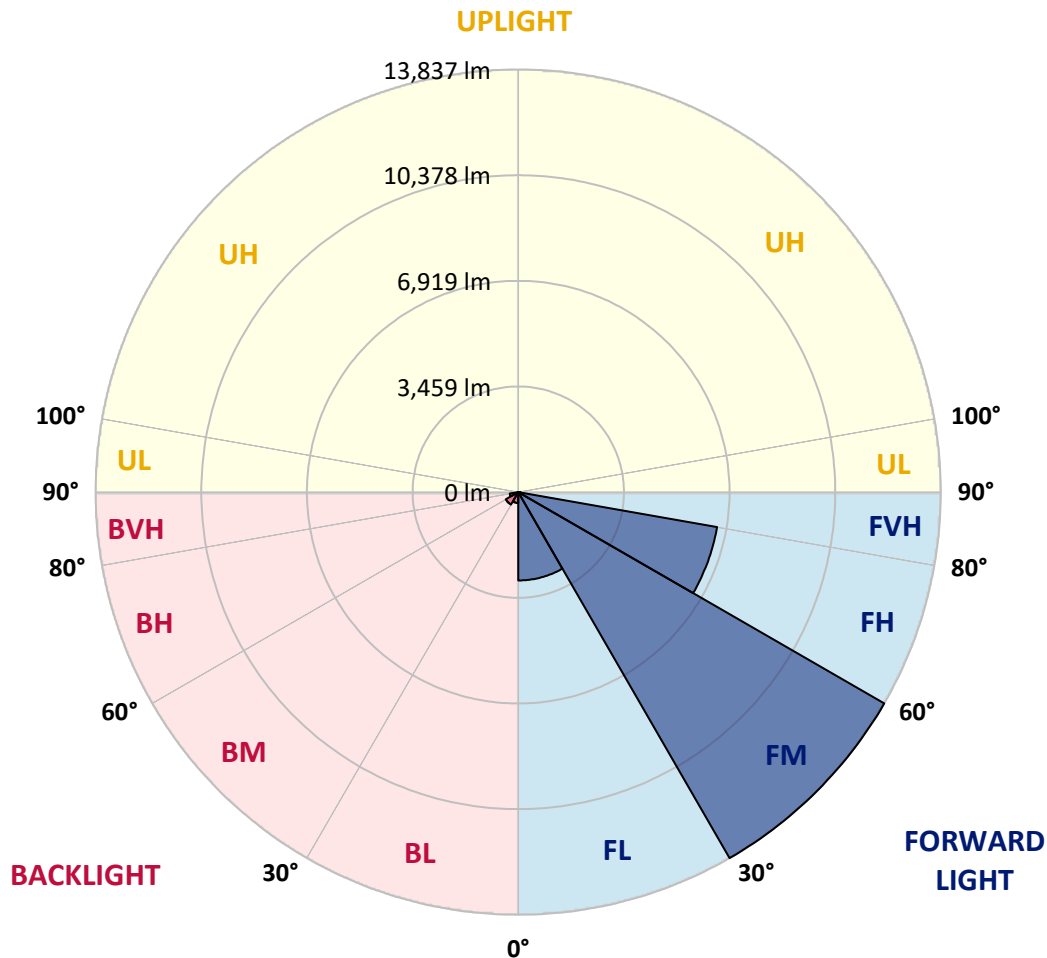
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2891.7	11.8			
FM (30°-60°)	13837.3	56.4			
FH (60°-80°)	6611.4	27.0			G3/7500
FVH (80°-90°)	72.2	0.3			G1/100
BL (0°-30°)	355.3	1.4	B1/500		
BM (30°-60°)	470.0	1.9	B1/1000		
BH (60°-80°)	280.8	1.1	B1/500		G1/500
BVH (80°-90°)	6.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3
2.5°	3568.0	3500.5	3429.5	3409.2	3277.5	3128.8	2990.3	2855.1	2628.7	2632.1	2476.7
5°	4598.6	4514.1	4456.7	4443.2	4237.0	3980.3	3770.8	3389.0	3013.9	2929.4	2645.6
7.5°	5446.7	5419.6	5335.2	5264.2	5112.2	4797.9	4551.3	4003.9	3432.9	3338.3	2851.7
10°	5960.2	6000.8	6038.0	5946.7	5828.5	5602.1	5264.2	4672.9	3909.3	3791.0	3118.7
12.5°	6507.6	6440.0	6463.7	6538.0	6382.6	6331.9	5912.9	5362.2	4466.8	4240.4	3456.5
15°	6649.5	6676.6	6734.0	6950.2	7055.0	6909.7	6548.2	5919.7	5044.6	4730.4	3770.8
17.5°	6744.1	6730.6	6801.6	7125.9	7284.7	7423.3	7196.9	6541.4	5548.0	5267.6	4162.7
20°	6862.4	6788.1	6943.5	7149.6	7517.9	7808.5	7798.3	7166.5	6075.1	5777.8	4551.3
22.5°	7301.6	7244.2	7369.2	7389.5	7646.3	8051.7	8149.7	7676.7	6615.7	6250.8	4970.2
25°	8112.6	8217.3	8068.6	7940.2	8017.9	8284.9	8355.8	8129.4	7159.7	6825.2	5389.2
27.5°	9298.5	9285.0	8991.0	8825.5	8639.6	8605.9	8656.5	8551.8	7588.8	7348.9	5733.9
30°	10572.3	10460.8	10190.5	9791.8	9383.0	9129.6	9058.6	8950.5	8092.3	7744.3	6075.1
32.5°	11586.0	11646.8	11346.1	10825.7	10146.6	9805.3	9464.1	9345.8	8646.4	8338.9	6467.1
35°	12518.5	12437.4	12197.5	11758.3	11150.1	10599.4	10065.5	9812.1	9312.0	9007.9	6899.6
37.5°	13207.8	13309.2	12853.0	12434.1	11829.3	11373.1	10849.4	10295.3	9997.9	9592.5	7426.7
40°	13859.9	13701.1	13393.7	13008.5	12447.6	12099.6	11754.9	10889.9	10727.8	10204.0	8021.3
42.5°	13745.0	13755.2	13586.2	13275.4	12869.9	12670.6	12552.3	11613.0	11390.0	11055.5	8602.5
45°	13275.4	13315.9	13373.4	13221.3	13255.1	13055.8	13373.4	12444.2	12224.6	11869.8	9271.5
47.5°	12758.4	12826.0	12812.5	13089.6	13403.8	13471.4	14265.4	13366.6	13272.0	13076.0	10197.3
50°	11900.2	11927.2	12187.4	12690.9	13120.0	13826.1	14934.4	14373.5	14518.8	14133.6	11298.8
52.5°	10433.8	10531.8	11200.8	11920.5	12785.5	14005.2	15387.2	15870.3	16238.6	15843.3	12356.4
55°	8578.8	8714.0	9372.9	10721.0	11988.1	13734.9	15799.4	16661.0	17407.7	16809.6	12998.3
57.5°	6902.9	6916.4	7507.7	8899.8	10856.2	13204.4	16008.9	17046.2	18049.7	17569.9	13782.2
60°	5260.8	5206.8	5737.2	6943.5	8950.5	11900.2	15485.1	17242.1	18850.4	18573.4	14724.9
62.5°	3385.6	3301.1	3878.9	5054.7	6990.8	9727.6	14437.7	17245.5	20100.6	19995.9	16302.8
65°	1675.9	1618.5	2115.1	3098.4	4838.5	7440.2	12944.3	17181.3	21627.8	21695.4	17840.2
67.5°	885.3	905.5	1064.3	1571.2	2790.9	5257.4	10694.0	16427.8	22408.3	22786.8	18211.9
68°	814.3	821.1	946.1	1307.6	2422.6	4875.6	10160.1	16208.2	22469.2	22935.4	18005.7
70°	662.2	672.4	716.3	821.1	1311.0	3172.7	7838.9	14343.1	21553.5	21979.2	16299.4
72.5°	527.1	557.5	584.5	628.5	770.4	1665.8	4875.6	11177.1	17806.4	17853.7	12687.5
75°	402.1	425.7	479.8	517.0	601.4	915.7	2321.3	6815.1	11684.0	11109.6	7474.0
77.5°	310.9	331.1	354.8	405.5	503.4	618.3	709.6	2892.3	4963.5	4085.0	2111.8
80°	185.8	199.4	277.1	317.6	439.2	419.0	280.4	804.2	1006.9	794.0	385.2
82.5°	108.1	118.3	158.8	243.3	307.5	226.4	165.6	250.0	246.7	216.2	128.4
85°	3.4	6.8	87.8	145.3	108.1	60.8	101.4	104.7	87.8	81.1	57.4
87.5°	0.0	3.4	23.7	20.3	23.7	13.5	20.3	27.0	33.8	30.4	23.7
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°	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3	2348.3
2.5°	2371.9	2297.6	2132.0	2007.0	1871.9	1790.8	1709.7	1659.0	1632.0	1615.1	1628.6
5°	2432.8	2277.3	2010.4	1773.9	1618.5	1513.7	1409.0	1354.9	1304.2	1277.2	1294.1
7.5°	2567.9	2334.8	1892.1	1635.3	1452.9	1290.7	1158.9	1054.2	993.4	939.3	949.4
10°	2733.5	2368.6	1895.5	1554.3	1290.7	1033.9	848.1	716.3	642.0	594.7	591.3
12.5°	2902.4	2500.3	1909.0	1473.2	1091.4	777.1	557.5	459.5	415.6	391.9	391.9
15°	3159.2	2618.6	1875.2	1324.5	827.8	506.8	381.8	348.0	331.1	310.9	314.2
17.5°	3382.2	2807.8	1858.4	1101.5	567.6	364.9	317.6	280.4	263.5	243.3	243.3
20°	3682.9	2926.1	1767.1	851.5	391.9	304.1	256.8	223.0	196.0	179.1	182.5
22.5°	3956.6	3017.3	1604.9	581.2	300.7	239.9	189.2	155.4	131.8	111.5	114.9
25°	4253.9	3108.5	1368.4	358.2	212.9	148.7	101.4	74.3	50.7	37.2	37.2
27.5°	4466.8	3135.5	1061.0	212.9	128.4	67.6	23.7	3.4	0.0	0.0	0.0
30°	4683.0	3145.7	733.2	114.9	50.7	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	4929.7	3142.3	459.5	60.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0
35°	5118.9	3084.9	219.6	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	5406.1	3000.4	67.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5733.9	2848.3	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	6027.8	2692.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6362.3	2500.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	6950.2	2419.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7717.2	2355.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8190.3	2165.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	8436.9	1969.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	8801.8	1875.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	9342.4	1882.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	10187.1	1976.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	10653.4	1882.0	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	10258.1	1507.0	64.2	16.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0
68°	9916.8	1385.3	64.2	16.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	8197.0	902.1	60.8	16.9	6.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5970.4	500.1	50.7	13.5	6.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	3473.4	250.0	37.2	13.5	6.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	905.5	125.0	30.4	16.9	10.1	3.4	0.0	0.0	0.0	0.0	0.0
80°	179.1	81.1	27.0	20.3	13.5	6.8	0.0	0.0	0.0	0.0	0.0
82.5°	84.5	57.4	27.0	20.3	16.9	10.1	3.4	0.0	0.0	0.0	0.0
85°	43.9	27.0	27.0	20.3	20.3	13.5	6.8	0.0	0.0	0.0	0.0
87.5°	20.3	10.1	10.1	10.1	10.1	6.8	3.4	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)