

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: P481691

Luminaire Tested: **IFLD-L-SA7A-740-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481691
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-740-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

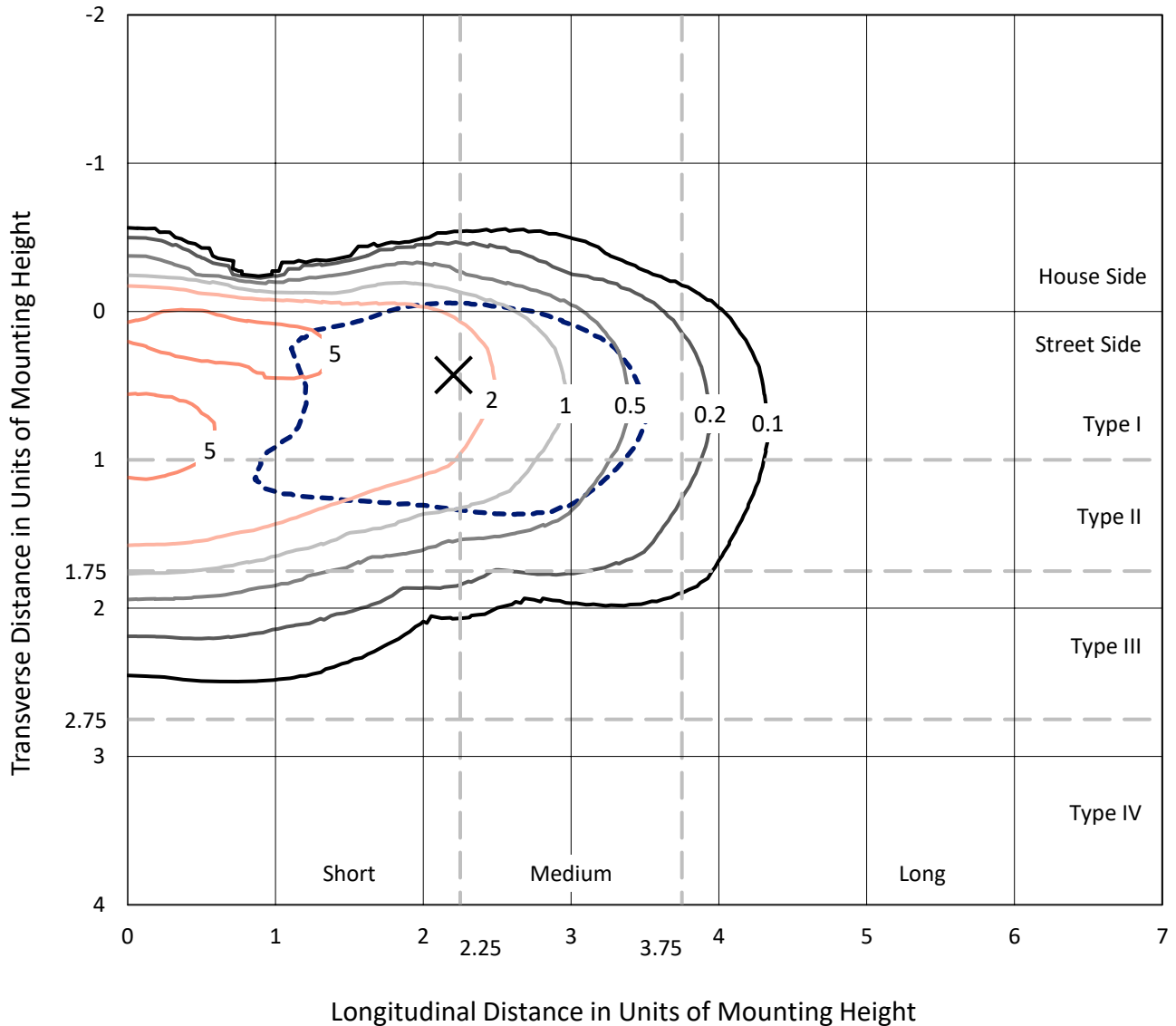
Lumens per Lamp: N/A
Luminaire Lumens: 22540.7 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 217.6
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

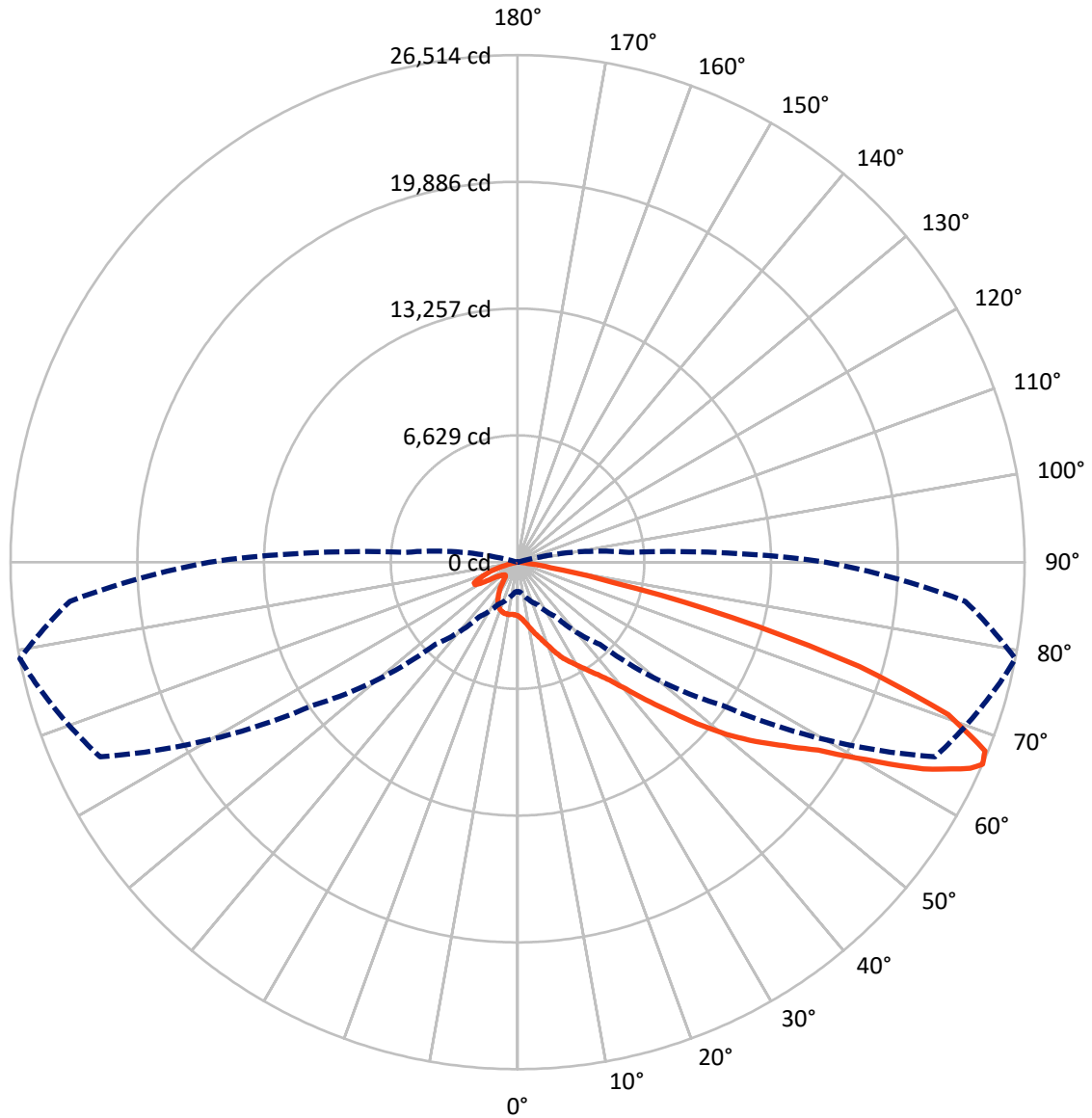
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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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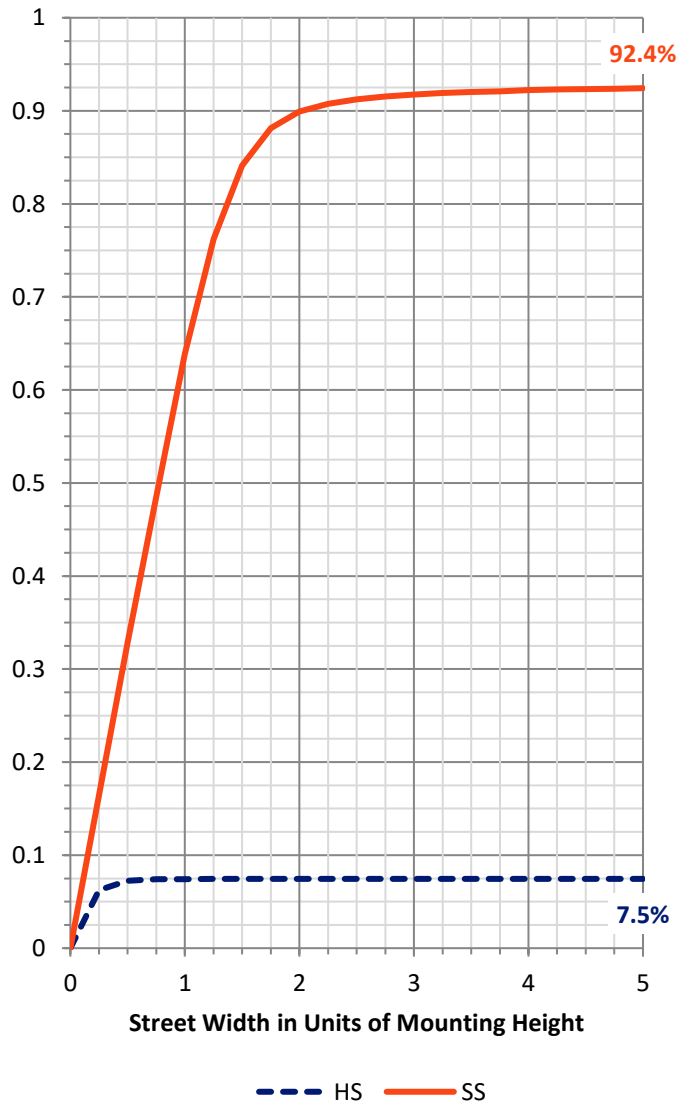
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1692.5	0.0	1692.5
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	20848.2	0.0	20848.2
	% Fixture	92.5	0.0	92.5
Total	Lumens	22540.7	0.0	22540.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.2	1.2
10°-20°	729.9	3.2
20°-30°	1212.6	5.4
30°-40°	2082.7	9.2
40°-50°	3773.1	16.7
50°-60°	5964.1	26.5
60°-70°	6069.0	26.9
70°-80°	2314.4	10.3
80°-90°	129.8	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°	22540.7	100.0
0°-180°	22540.7	100.0

Coefficient of Utilization

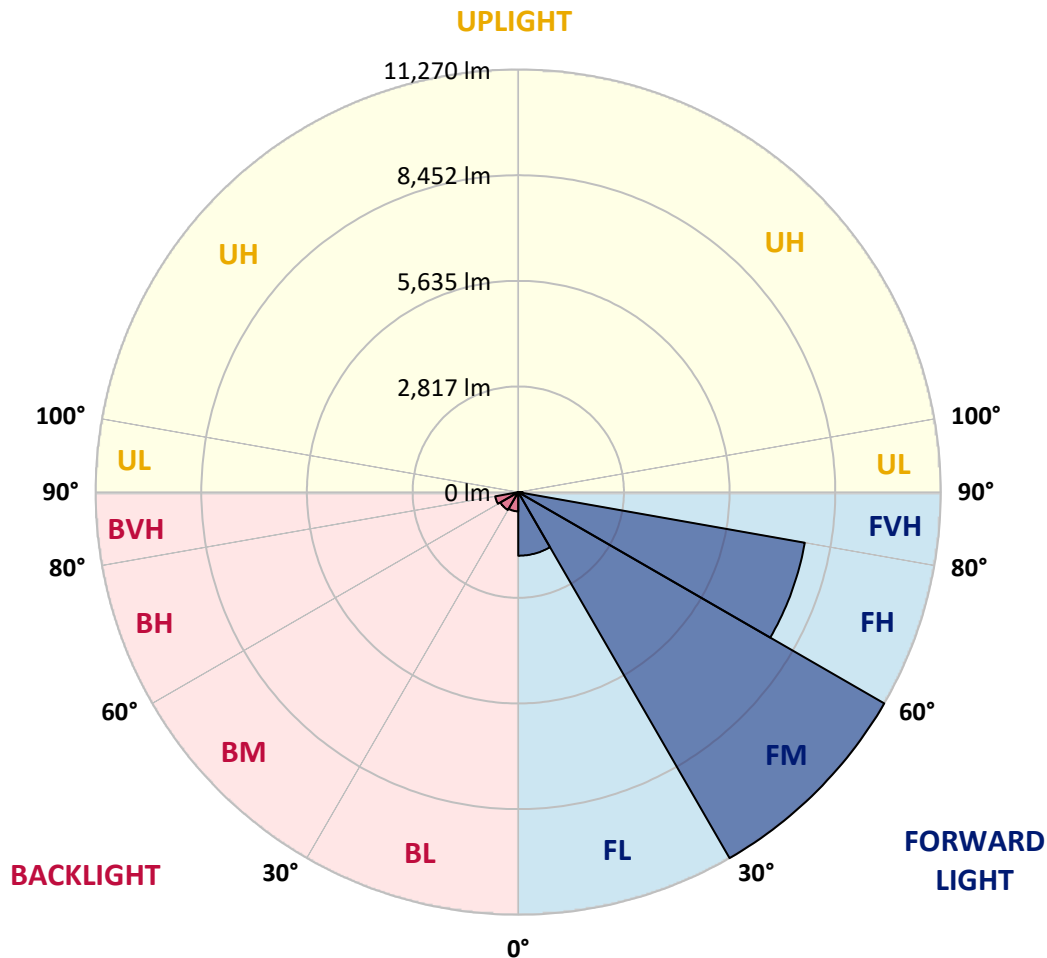


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1695.8	7.5			
FM (30°-60°)	11269.8	50.0			
FH (60°-80°)	7759.4	34.4			G4/12000
FVH (80°-90°)	123.1	0.5			G2/225
BL (0°-30°)	511.9	2.3	B2/1000		
BM (30°-60°)	550.1	2.4	B1/1000		
BH (60°-80°)	623.9	2.8	B2/1000		G2/1000
BVH (80°-90°)	6.6	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°	2804.3	2804.3	2804.3	2804.3	2804.3	2804.3	2804.3	2804.3	2804.3	2804.3	2804.3
2.5°	3176.2	3172.7	3158.8	3134.5	3103.2	3092.8	3047.6	2985.0	2950.3	2912.1	2894.7
5°	3395.1	3377.7	3419.4	3402.0	3409.0	3325.6	3270.0	3224.8	3092.8	3040.6	2957.2
7.5°	3443.7	3461.1	3457.6	3485.4	3513.2	3544.5	3506.3	3440.3	3308.2	3231.8	3141.4
10°	3443.7	3436.8	3464.6	3502.8	3582.7	3652.2	3756.5	3669.6	3568.8	3478.5	3315.2
12.5°	3381.2	3370.8	3398.6	3478.5	3621.0	3763.4	3878.1	3961.5	3819.0	3746.1	3534.1
15°	3190.1	3179.6	3294.3	3436.8	3624.4	3857.3	4097.0	4232.6	4135.3	4020.6	3784.3
17.5°	2953.8	2967.7	3089.3	3325.6	3624.4	3902.4	4208.2	4503.6	4489.7	4343.8	4097.0
20°	2873.8	2884.3	3005.9	3176.2	3516.7	3933.7	4382.0	4799.0	4882.4	4708.6	4385.5
22.5°	3026.7	3016.3	3026.7	3131.0	3443.7	3905.9	4496.7	5136.1	5285.5	5150.0	4764.2
25°	3548.0	3541.0	3454.2	3294.3	3402.0	3843.4	4555.7	5358.5	5702.5	5577.4	5070.0
27.5°	4312.5	4284.7	4149.2	3815.6	3596.6	3881.6	4653.0	5573.9	6067.4	5924.9	5344.6
30°	5132.6	5066.6	4889.3	4472.3	4100.5	4024.1	4708.6	5733.8	6473.9	6293.2	5584.3
32.5°	5699.0	5785.9	5730.3	5306.3	4736.4	4354.2	4799.0	5935.3	6849.2	6731.1	5994.4
35°	6574.7	6675.5	6442.7	6067.4	5494.0	4878.9	4990.1	6098.6	7426.1	7228.0	6376.6
37.5°	7679.8	7756.2	7589.4	6877.0	6272.4	5525.3	5382.8	6439.2	7923.0	7829.2	6866.6
40°	8235.8	8604.1	8367.8	7725.0	7075.1	6428.8	6032.6	6838.8	8788.3	8711.9	7544.2
42.5°	9003.8	9187.9	9066.3	8590.2	7912.6	7394.8	6835.3	7617.2	9837.8	9837.8	8461.7
45°	9816.9	9823.9	9816.9	9427.7	8826.5	8559.0	7919.6	8593.7	10967.1	11092.2	9559.8
47.5°	10484.1	10692.6	10675.2	10442.4	9976.8	9876.0	9003.8	9705.7	12384.9	12603.9	10630.1
50°	10828.1	11061.0	11130.5	11252.1	11231.2	11443.2	10188.7	10994.9	13608.1	14146.8	12006.2
52.5°	10734.3	10751.7	11179.1	11658.7	12423.2	13017.4	11617.0	12457.9	15039.8	15571.5	13069.5
55°	9966.3	9900.3	10779.5	11328.5	12909.7	13980.0	13594.2	14282.3	16155.3	16965.0	14167.6
57.5°	8281.0	8298.3	9111.5	10227.0	12548.3	14362.2	15707.1	16666.2	17719.1	18535.7	15710.5
60°	5716.4	5695.5	6606.0	7895.2	10425.0	13649.8	16923.3	19755.4	19811.0	20968.2	18480.1
62.5°	3214.4	3221.3	3912.9	5014.4	7294.0	11154.8	16864.2	23035.8	22799.5	23814.3	21628.5
65°	1820.9	1866.1	2342.2	2971.1	4368.1	7488.6	14504.7	24342.5	25103.5	26007.0	23539.7
66°	1539.4	1570.7	1977.3	2453.4	3485.4	6074.3	13055.6	24088.8	25826.3	26514.3	23501.5
67.5°	1191.9	1233.6	1574.2	1946.0	2557.6	4204.8	10508.4	22827.3	25958.3	26361.4	22837.8
70°	816.6	844.4	1105.1	1476.9	1747.9	2151.0	6282.8	18872.8	23553.6	23894.2	19849.3
72.5°	573.4	587.3	774.9	1119.0	1344.8	1230.2	3117.1	13427.4	18024.9	18688.6	15439.5
75°	413.5	427.4	531.7	802.7	1049.5	806.2	1428.2	8576.3	11054.0	11575.3	9299.1
77.5°	298.9	316.2	361.4	517.8	761.0	566.4	702.0	4479.3	5212.5	5122.2	3999.7
80°	180.7	198.1	267.6	333.6	556.0	399.6	385.7	1869.6	1848.7	1754.9	1258.0
82.5°	83.4	97.3	142.5	225.9	389.2	278.0	184.2	667.2	583.8	535.2	354.5
85°	24.3	31.3	83.4	170.3	198.1	135.5	111.2	229.4	239.8	205.0	118.2
87.5°	0.0	3.5	38.2	41.7	59.1	45.2	41.7	59.1	111.2	90.4	38.2
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°	2804.3	2804.3	2804.3	2804.3	2804.3	2804.3	2804.3	2804.3	2804.3	2804.3	2804.3
2.5°	2832.1	2807.8	2748.7	2658.4	2578.5	2536.8	2477.7	2425.6	2397.8	2394.3	2390.8
5°	2901.6	2835.6	2693.1	2529.8	2408.2	2276.1	2185.8	2119.8	2057.2	1998.1	2032.9
7.5°	2995.5	2891.2	2658.4	2446.4	2182.3	2012.0	1852.2	1758.4	1702.8	1650.6	1643.7
10°	3141.4	3009.4	2634.1	2251.8	1949.5	1699.3	1536.0	1400.4	1324.0	1233.6	1268.4
12.5°	3339.5	3103.2	2543.7	2074.6	1685.4	1421.3	1188.5	969.5	847.9	754.1	757.6
15°	3537.6	3228.3	2460.3	1859.1	1445.6	1098.1	757.6	608.1	573.4	552.5	559.5
17.5°	3732.2	3329.1	2331.7	1640.2	1171.1	698.5	552.5	521.3	503.9	483.0	483.0
20°	3968.5	3395.1	2171.9	1438.7	806.2	517.8	472.6	451.8	424.0	396.2	399.6
22.5°	4197.8	3450.7	1987.7	1181.5	542.1	448.3	396.2	368.4	344.0	316.2	316.2
25°	4427.2	3468.1	1747.9	847.9	437.9	357.9	309.3	271.1	246.7	222.4	225.9
27.5°	4583.5	3360.3	1522.1	542.1	351.0	271.1	215.5	184.2	163.3	139.0	139.0
30°	4673.9	3162.3	1278.8	382.3	264.1	184.2	128.6	97.3	76.5	59.1	55.6
32.5°	4764.2	3002.4	1004.3	291.9	173.8	97.3	48.7	17.4	0.0	0.0	0.0
35°	4944.9	2821.7	674.2	163.3	59.1	3.5	0.0	0.0	0.0	0.0	0.0
37.5°	5059.6	2571.5	309.3	24.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	5348.0	2446.4	76.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	5817.2	2359.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	6331.5	2324.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	7016.0	2418.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	7738.9	2672.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	8531.2	2912.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9222.7	3200.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	10494.5	3881.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	12777.6	5219.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	15349.1	6213.3	38.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	16290.9	6189.0	66.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	16124.1	5848.4	66.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	15258.8	5195.1	59.1	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	13104.3	4291.6	59.1	10.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	9990.7	3343.0	55.6	13.9	3.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	6029.1	1779.2	45.2	17.4	7.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	2401.2	625.5	34.8	13.9	7.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	649.8	187.7	20.9	13.9	10.4	3.5	0.0	0.0	0.0	0.0	0.0
82.5°	170.3	69.5	17.4	13.9	7.0	3.5	0.0	0.0	0.0	0.0	0.0
85°	66.0	27.8	13.9	10.4	10.4	7.0	3.5	0.0	0.0	0.0	0.0
87.5°	20.9	10.4	10.4	7.0	7.0	3.5	3.5	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)