

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: P480056

Luminaire Tested: **IFLD-L-SA7D-730-U-SL2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480056  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-730-U-SL2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

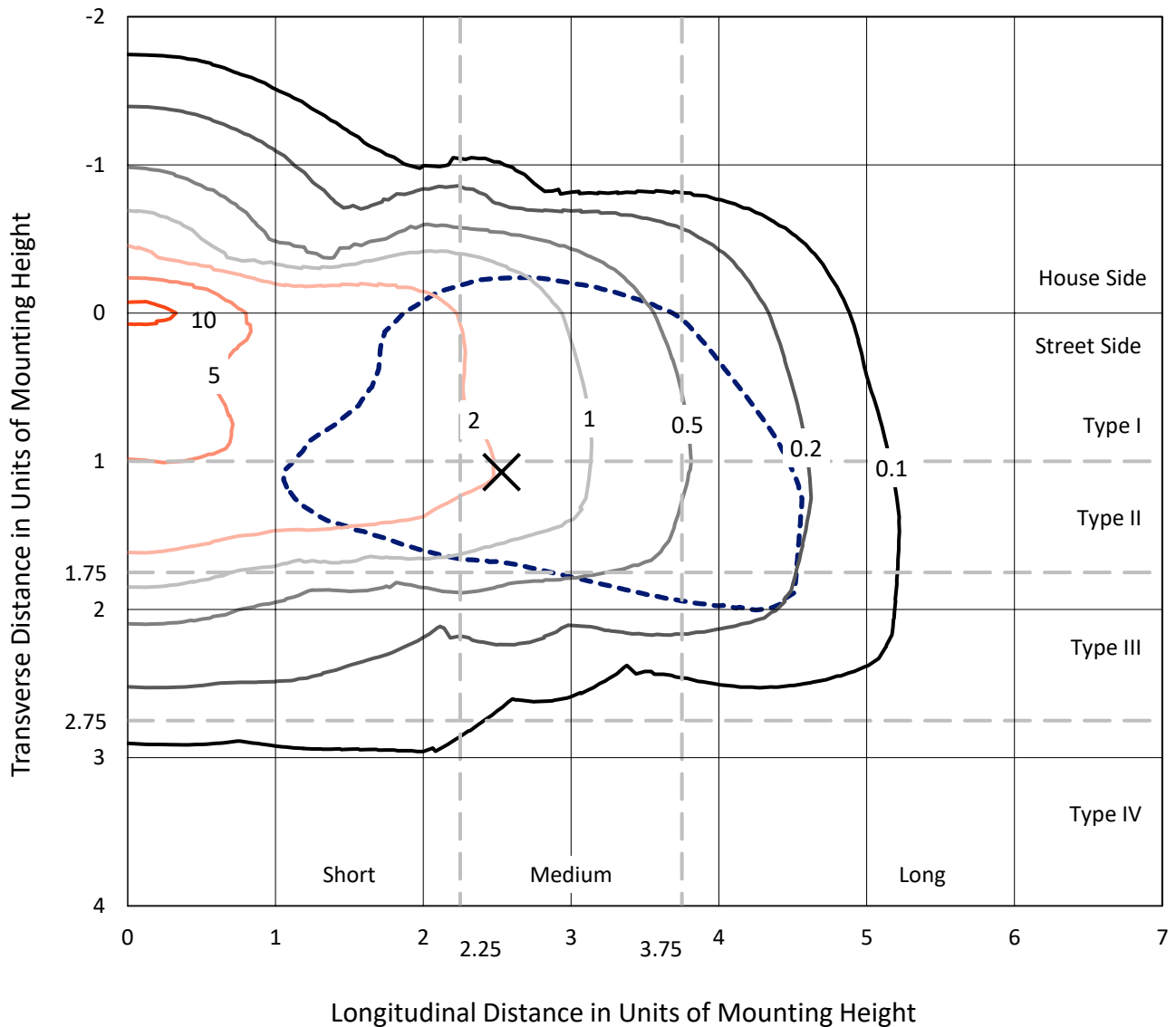
Lumens per Lamp: N/A  
Luminaire Lumens: 44287.5 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

Input Watts (W): 422.6  
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

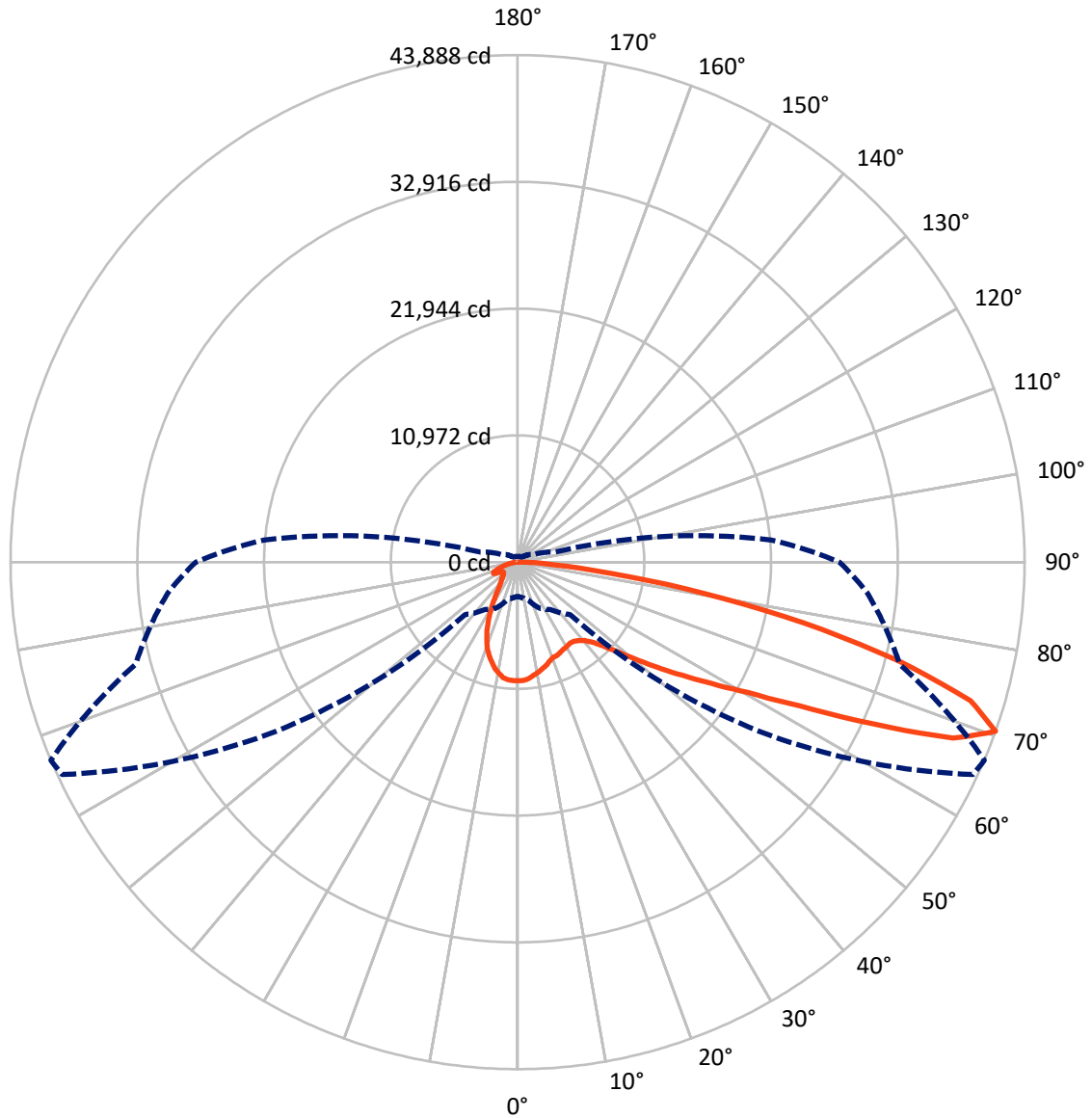
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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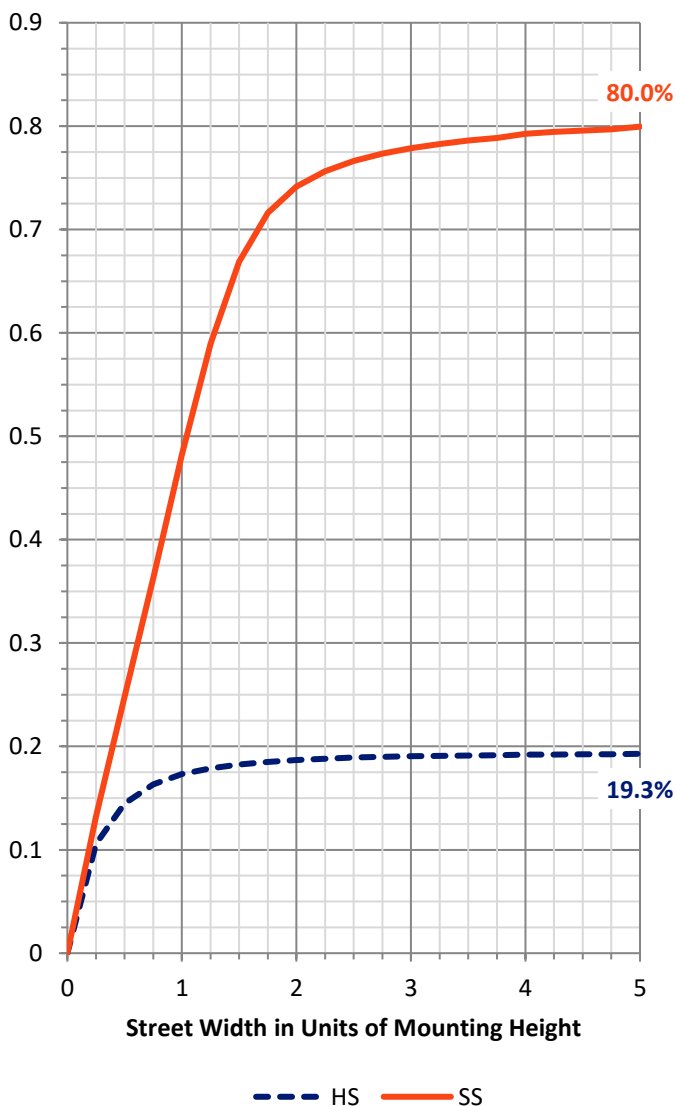
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8625.4	0.0	8625.4
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	35662.1	0.0	35662.1
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	44287.5	0.0	44287.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	894.5	2.0
10°-20°	2142.4	4.8
20°-30°	2893.2	6.5
30°-40°	3871.3	8.7
40°-50°	5692.7	12.9
50°-60°	8873.4	20.0
60°-70°	10930.6	24.7
70°-80°	7723.5	17.4
80°-90°	1265.9	2.9
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°	44287.5	100.0
0°-180°	44287.5	100.0

**Coefficient of Utilization**



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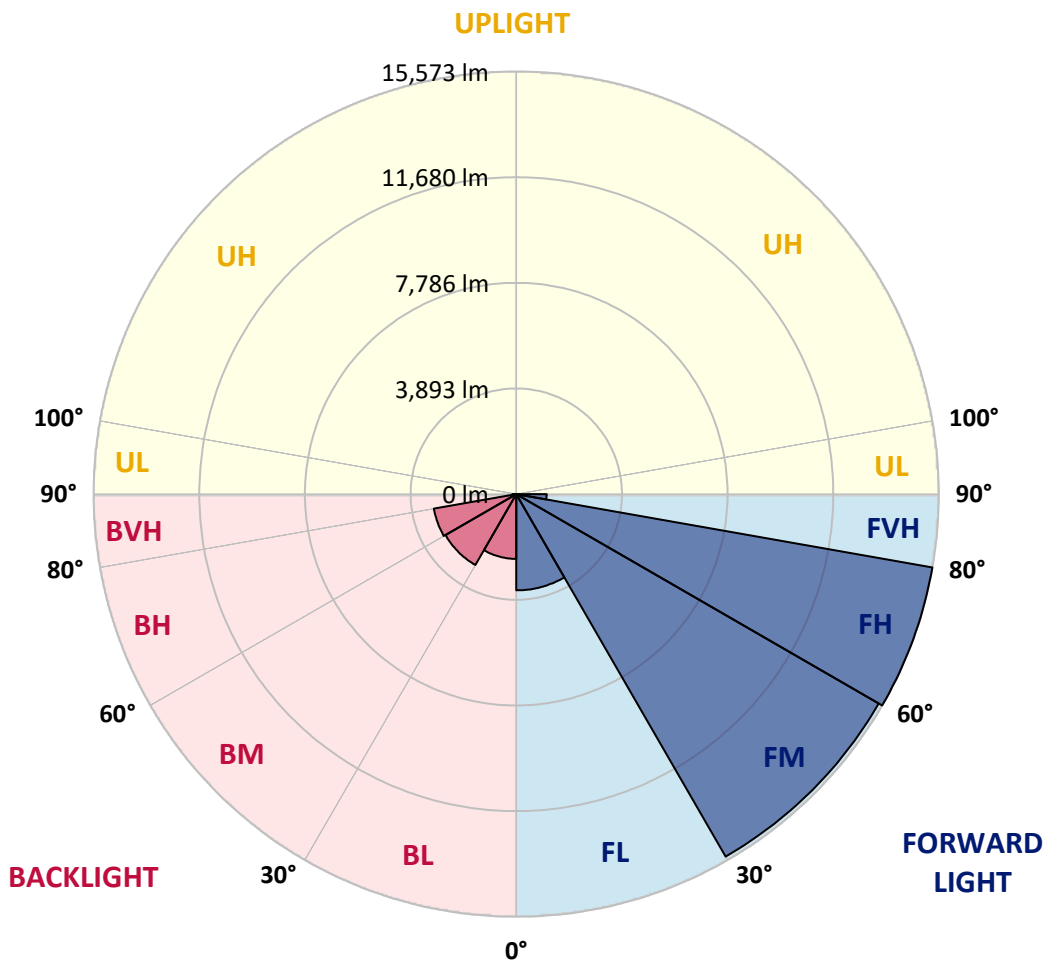
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3544.9	8.0			
FM (30°-60°)	15424.4	34.8			
FH (60°-80°)	15573.0	35.2			G5
FVH (80°-90°)	1119.9	2.5			G5
BL (0°-30°)	2385.2	5.4	B3/2500		
BM (30°-60°)	3013.0	6.8	B3/5000		
BH (60°-80°)	3081.1	7.0	B4/5000		G4/5000
BVH (80°-90°)	146.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	10252.4	10252.4	10252.4	10252.4	10252.4	10252.4	10252.4	10252.4	10252.4	10252.4	10252.4
2.5°	9546.4	9654.2	9693.5	9752.3	9904.3	10017.1	10085.7	10164.2	10257.3	10335.8	10384.8
5°	8879.6	8938.4	9031.5	9095.3	9286.5	9590.5	9796.4	10129.8	10120.0	10242.6	10428.9
7.5°	8232.3	8291.2	8335.3	8462.8	8737.4	9011.9	9389.5	9928.8	9889.6	10174.0	10463.3
10°	7830.3	7786.2	7800.9	8016.6	8232.3	8541.2	9016.8	9566.0	9708.2	10149.5	10561.3
12.5°	7452.7	7403.7	7521.4	7658.7	7923.4	8202.9	8771.7	9266.9	9482.6	10061.2	10605.4
15°	7217.4	7183.1	7330.2	7389.0	7702.8	8036.2	8438.3	9041.4	9276.7	9953.3	10536.8
17.5°	7085.0	7114.4	7168.4	7295.8	7496.9	7781.3	8222.5	8889.4	8992.3	9820.9	10522.1
20°	7109.5	7143.8	7148.7	7202.7	7340.0	7560.6	8011.7	8727.6	8796.2	9796.4	10561.3
22.5°	7305.6	7256.6	7276.2	7241.9	7281.1	7452.7	7849.9	8511.8	8776.6	9590.5	10478.0
25°	7599.8	7531.2	7521.4	7403.7	7330.2	7379.2	7820.5	8457.9	8629.5	9526.8	10473.1
27.5°	8119.6	8016.6	8016.6	7840.1	7541.0	7462.5	7737.1	8369.6	8521.6	9467.9	10360.3
30°	8619.7	8619.7	8624.6	8374.5	8041.1	7653.8	7771.4	8335.3	8433.4	9291.4	10208.3
32.5°	9227.7	9213.0	9188.4	9065.9	8551.0	7972.5	7938.2	8291.2	8340.2	9232.6	10164.2
35°	9820.9	9781.7	9972.9	9865.1	9340.4	8595.2	8109.8	8310.8	8418.7	9144.3	10026.9
37.5°	10267.1	10291.6	10688.8	10757.4	10306.4	9301.2	8595.2	8506.9	8609.9	9271.8	10026.9
40°	10845.7	10943.8	11316.4	11546.8	11272.3	10232.8	9365.0	8835.4	8909.0	9556.2	10242.6
42.5°	11605.7	11689.0	12164.6	12463.7	12385.3	11419.4	10124.9	9521.9	9463.0	10031.8	10566.2
45°	12610.8	12625.5	13106.0	13517.9	13679.7	12659.9	11331.1	10389.7	10340.7	10850.6	11159.5
47.5°	13807.2	13792.5	14091.6	14532.8	14969.2	14140.6	12718.7	11708.7	11532.1	12022.5	12145.0
50°	14964.3	14900.6	14969.2	15533.1	16371.5	15994.0	14405.4	13321.8	13145.3	13414.9	13625.8
52.5°	15601.7	15680.2	15493.9	16239.1	17862.1	18185.7	16641.2	15248.7	15096.7	15229.1	15596.8
55°	15155.5	15317.3	15194.8	15900.8	18514.2	20857.9	19534.0	17479.6	17283.5	17234.5	17837.6
57.5°	13258.0	13552.2	13576.7	14694.7	18288.6	22927.0	23603.6	20112.6	19818.4	19318.3	19941.0
60°	10178.9	10473.1	10698.6	12022.5	16356.8	24162.6	28320.4	23858.6	22887.8	21593.3	21966.0
62.5°	7134.0	7335.1	7560.6	8374.5	12610.8	23436.9	32399.8	29134.3	27344.7	23991.0	24456.8
65°	5197.3	5354.2	5584.7	6065.2	7746.9	19391.8	34292.4	35400.5	33704.0	27040.7	26981.9
67.5°	3912.7	4010.8	4314.7	5084.5	5368.9	11978.3	32331.2	42019.7	40646.9	30428.8	29011.8
70°	2961.5	3044.8	3329.2	4383.4	5015.9	6423.1	25506.0	43495.6	43887.8	34228.7	30374.8
72.5°	2039.7	2132.9	2451.6	3652.8	4775.6	5094.3	16008.7	39514.2	40999.9	35792.8	28913.7
75°	1250.3	1314.0	1500.4	2770.3	4741.3	4981.6	8810.9	32380.2	33954.1	33071.5	25295.2
77.5°	882.6	877.7	912.0	1622.9	4108.8	5011.0	5432.7	23726.2	25256.0	24373.4	17165.8
80°	642.3	647.2	681.5	970.8	2789.9	5094.3	4280.4	15891.0	16347.0	12708.9	6771.2
82.5°	387.3	407.0	490.3	657.0	1676.9	4599.1	3956.8	8830.5	8261.8	4079.4	1863.2
85°	205.9	205.9	289.3	416.8	892.4	3432.2	3809.7	4202.0	3520.4	1265.0	691.3
87.5°	49.0	49.0	83.4	166.7	357.9	1642.5	2598.7	1672.0	1338.6	426.6	284.4
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°	10252.4	10252.4	10252.4	10252.4	10252.4	10252.4	10252.4	10252.4	10252.4	10252.4	10252.4
2.5°	10365.2	10306.4	10379.9	10232.8	10115.1	10120.0	9938.6	9928.8	9904.3	9776.8	9820.9
5°	10482.9	10433.8	10350.5	10188.7	9928.8	9669.0	9512.1	9311.0	9227.7	9183.5	9203.2
7.5°	10595.6	10507.4	10267.1	10041.6	9639.5	9149.2	8864.8	8595.2	8252.0	8212.7	8144.1
10°	10625.1	10438.7	10129.8	9649.3	9114.9	8570.7	7923.4	7423.3	7158.6	6952.6	6874.2
12.5°	10580.9	10502.5	9909.2	9291.4	8482.4	7629.3	6874.2	6168.1	5677.8	5422.9	5354.2
15°	10576.0	10438.7	9664.1	8747.2	7712.6	6599.6	5525.8	4677.6	4162.7	3951.9	3951.9
17.5°	10580.9	10252.4	9374.8	8198.0	6805.5	5300.3	4118.6	3422.4	3138.0	3108.6	3133.1
20°	10482.9	10115.1	9070.8	7550.8	5668.0	3981.3	2990.9	2706.5	2706.5	2745.7	2760.5
22.5°	10394.6	9909.2	8590.3	6751.6	4510.9	2883.0	2431.9	2348.6	2441.8	2510.4	2539.8
25°	10272.0	9737.6	8100.0	5923.0	3432.2	2324.1	2113.2	2132.9	2221.1	2343.7	2333.9
27.5°	10095.5	9438.5	7516.5	4962.0	2554.5	2005.4	1951.4	1961.2	2054.4	2108.3	2098.5
30°	9894.5	9134.5	6977.1	4005.8	2025.0	1838.7	1833.8	1858.3	1873.0	1902.4	1897.5
32.5°	9639.5	8732.5	6403.5	3113.5	1824.0	1745.5	1725.9	1711.2	1725.9	1721.0	1706.3
35°	9458.1	8516.7	5820.0	2373.1	1711.2	1662.2	1647.4	1622.9	1603.3	1573.9	1569.0
37.5°	9409.1	8301.0	5207.1	1936.7	1622.9	1598.4	1549.4	1505.3	1480.7	1466.0	1456.2
40°	9379.7	8158.8	4608.9	1701.4	1549.4	1524.9	1466.0	1407.2	1382.7	1368.0	1372.9
42.5°	9482.6	8080.3	4000.9	1583.7	1485.6	1441.5	1377.8	1309.1	1304.2	1294.4	1309.1
45°	9845.5	8178.4	3437.1	1500.4	1421.9	1348.4	1265.0	1230.7	1225.8	1216.0	1225.8
47.5°	10669.2	8423.6	2956.6	1446.4	1353.3	1289.5	1201.3	1152.2	1147.3	1142.4	1142.4
50°	11806.7	9178.6	2554.5	1382.7	1309.1	1220.9	1137.5	1083.6	1073.8	1054.2	1054.2
52.5°	13591.4	10448.5	2314.3	1348.4	1230.7	1157.1	1068.9	1010.0	985.5	965.9	965.9
55°	15601.7	12022.5	2270.1	1289.5	1147.3	1078.7	1000.2	941.4	916.9	892.4	882.6
57.5°	17891.5	14106.3	2583.9	1250.3	1088.5	1000.2	912.0	858.0	838.4	813.9	804.1
60°	20024.3	16185.2	3559.7	1191.5	1034.6	926.7	838.4	784.5	760.0	735.5	735.5
62.5°	22490.6	18759.3	5212.0	1191.5	985.5	848.2	760.0	720.8	706.0	681.5	676.6
65°	25408.0	21421.7	6418.2	1265.0	970.8	779.6	686.4	647.2	632.5	617.8	612.9
67.5°	27629.1	22951.5	5520.9	1461.1	1034.6	720.8	612.9	588.4	578.6	563.9	554.1
70°	27864.4	22019.9	3329.2	1578.8	1098.3	661.9	549.1	524.6	524.6	509.9	500.1
72.5°	25751.2	19538.9	2240.7	1407.2	995.3	593.3	485.4	465.8	456.0	446.2	441.3
75°	21549.2	16572.5	1770.0	1122.8	764.9	490.3	421.7	402.1	387.3	382.4	372.6
77.5°	14474.0	10772.2	1309.1	877.7	563.9	397.2	353.0	333.4	318.7	313.8	299.1
80°	5560.1	4103.9	843.3	637.4	397.2	313.8	279.5	259.9	250.1	235.3	225.5
82.5°	1637.6	1328.7	470.7	392.2	255.0	215.7	201.0	186.3	171.6	156.9	152.0
85°	676.6	608.0	289.3	205.9	156.9	127.5	117.7	103.0	88.3	78.4	68.6
87.5°	313.8	259.9	132.4	78.4	53.9	29.4	14.7	4.9	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)