

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: P482116

Luminaire Tested: **IFLD-M-SA4B-750-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482116  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-750-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18367.8 lumens  
Efficiency: N/A  
Efficacy: 110.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

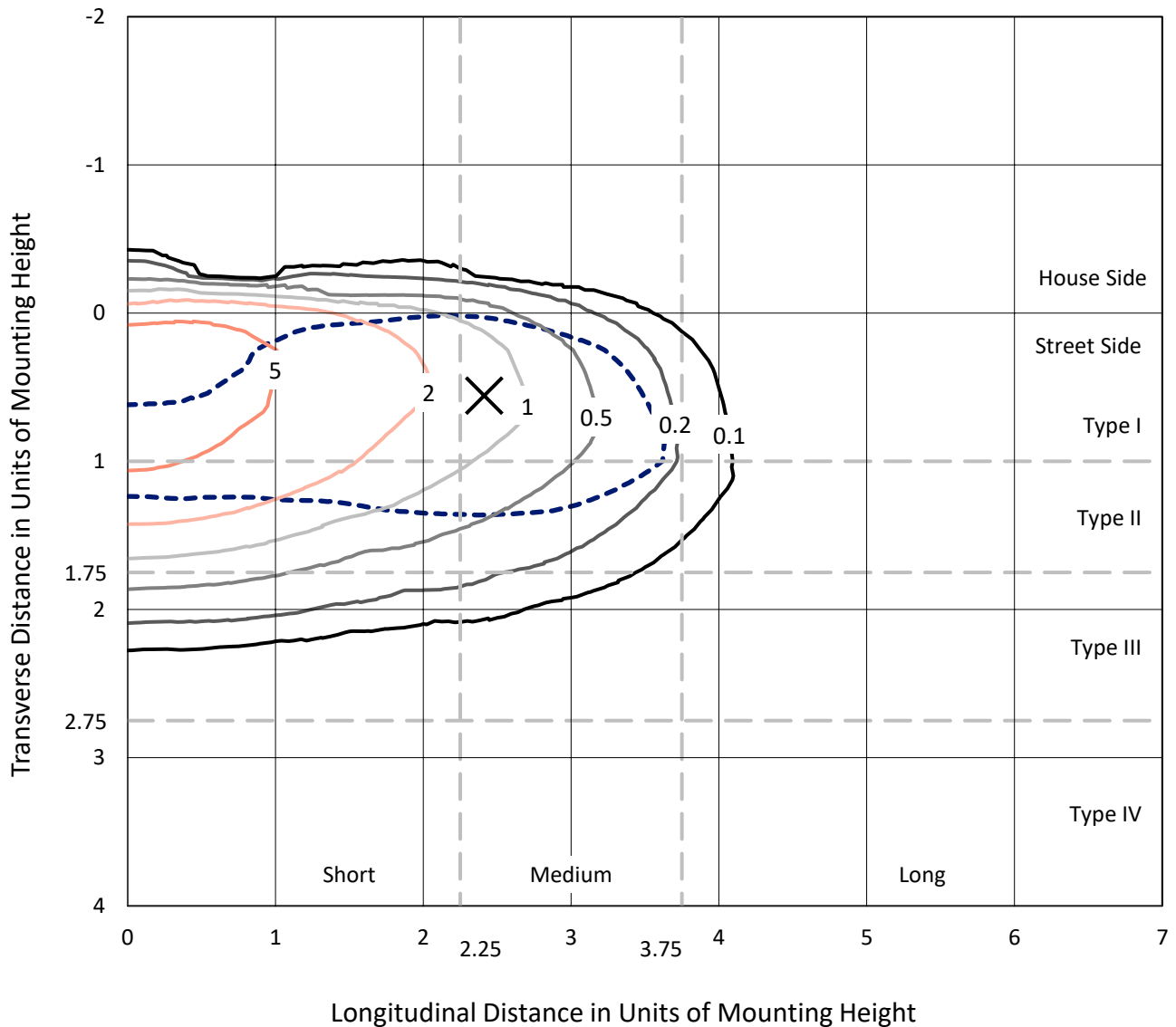
Input Watts (W): 166.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

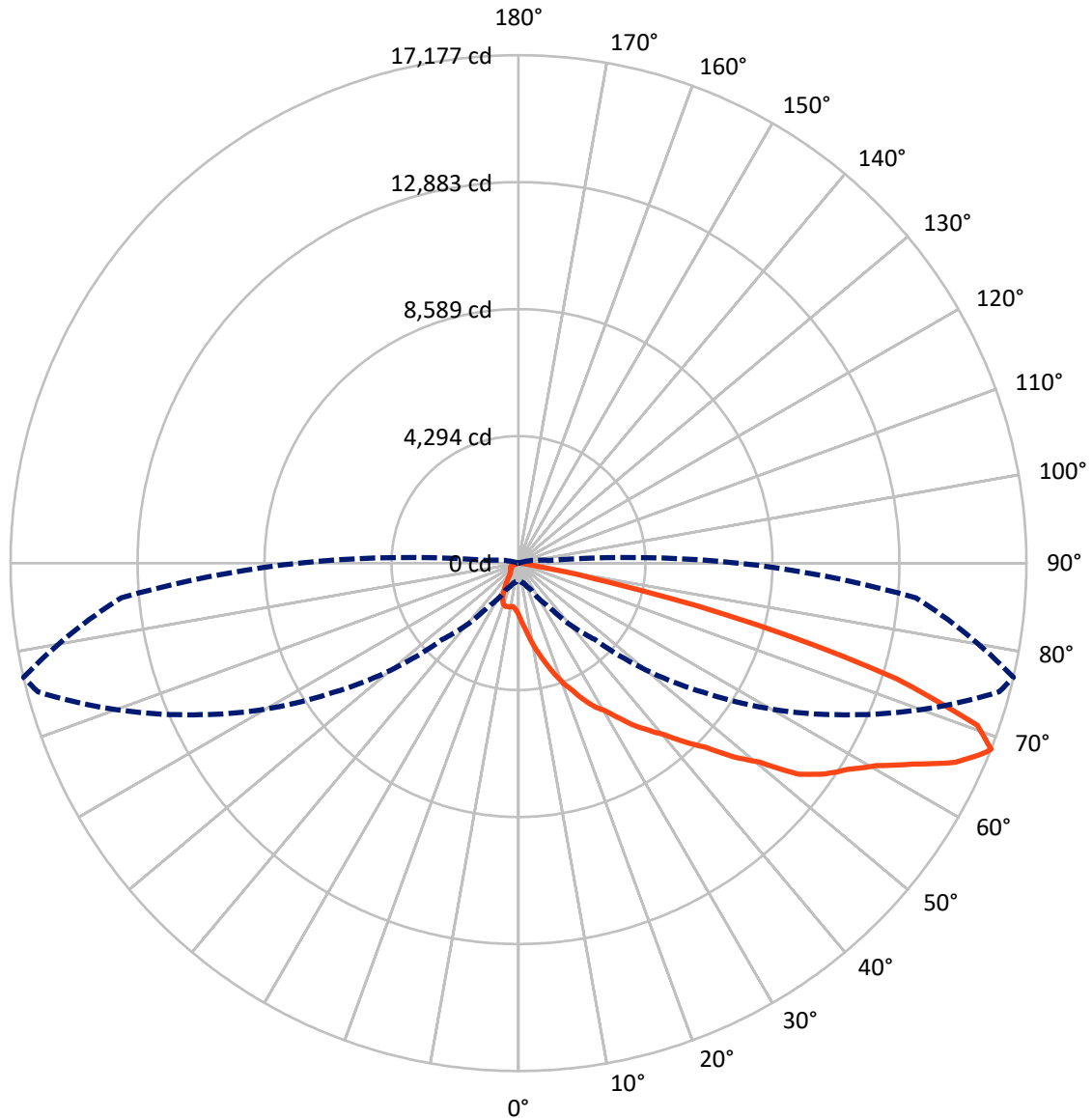
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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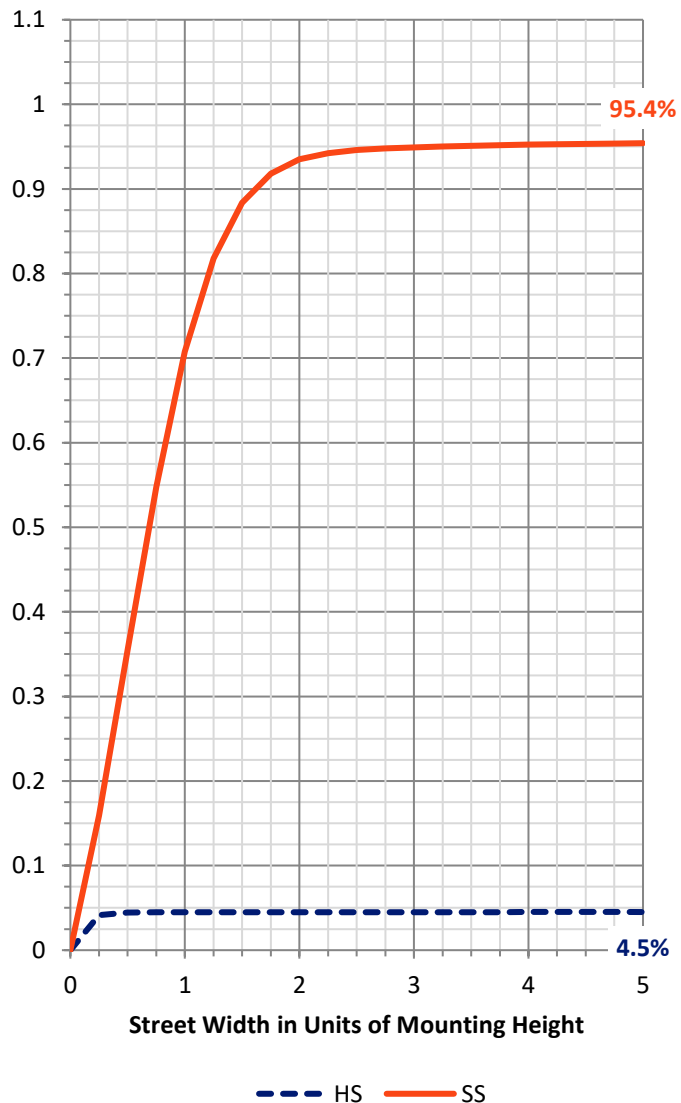
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	833.0	0.0	833.0
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	17534.8	0.0	17534.8
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	18367.8	0.0	18367.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.5	1.1
10°-20°	757.8	4.1
20°-30°	1468.6	8.0
30°-40°	2560.3	13.9
40°-50°	3749.8	20.4
50°-60°	4405.4	24.0
60°-70°	3719.9	20.3
70°-80°	1441.9	7.9
80°-90°	58.6	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°	18367.8	100.0
0°-180°	18367.8	100.0

**Coefficient of Utilization**



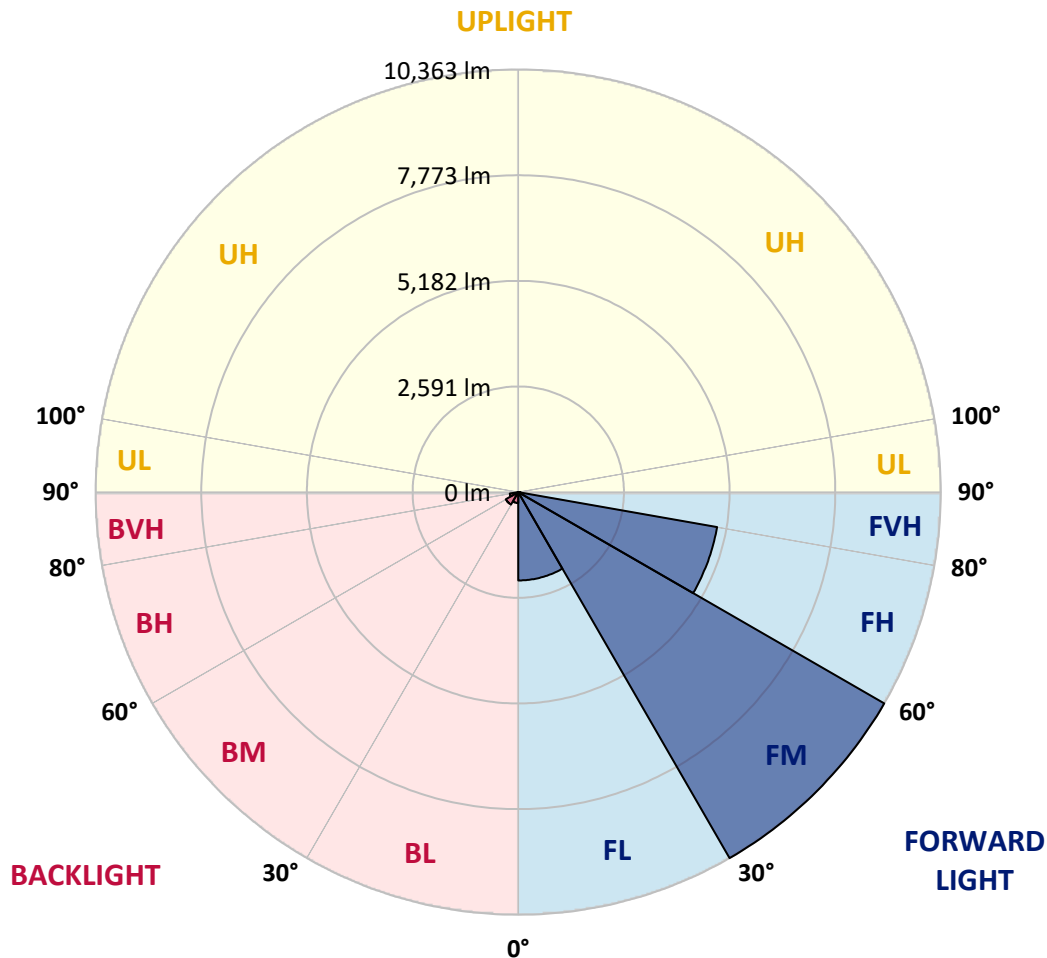
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2165.7	11.8			
FM (30°-60°)	10363.4	56.4			
FH (60°-80°)	4951.6	27.0			G2/5000
FVH (80°-90°)	54.1	0.3			G1/100
BL (0°-30°)	266.1	1.4	B1/500		
BM (30°-60°)	352.0	1.9	B1/1000		
BH (60°-80°)	210.3	1.1	B1/500		G1/500
BVH (80°-90°)	4.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7
2.5°	2672.3	2621.7	2568.5	2553.3	2454.6	2343.3	2239.5	2138.3	1968.8	1971.3	1854.9
5°	3444.1	3380.8	3337.8	3327.7	3173.3	2981.0	2824.1	2538.2	2257.3	2194.0	1981.4
7.5°	4079.3	4059.0	3995.8	3942.6	3828.7	3593.4	3408.7	2998.7	2571.0	2500.2	2135.8
10°	4463.9	4494.3	4522.1	4453.8	4365.2	4195.7	3942.6	3499.8	2927.9	2839.3	2335.7
12.5°	4873.9	4823.2	4841.0	4896.6	4780.2	4742.3	4428.5	4016.0	3345.4	3175.9	2588.8
15°	4980.1	5000.4	5043.4	5205.4	5283.8	5175.0	4904.2	4433.5	3778.1	3542.8	2824.1
17.5°	5051.0	5040.9	5094.0	5337.0	5455.9	5559.6	5390.1	4899.2	4155.2	3945.1	3117.7
20°	5139.6	5083.9	5200.3	5354.7	5630.5	5848.1	5840.5	5367.3	4549.9	4327.3	3408.7
22.5°	5468.5	5425.5	5519.2	5534.3	5726.7	6030.3	6103.7	5749.4	4954.8	4681.5	3722.5
25°	6075.9	6154.3	6043.0	5946.8	6005.0	6204.9	6258.1	6088.5	5362.3	5111.7	4036.2
27.5°	6964.1	6954.0	6733.8	6609.8	6470.6	6445.3	6483.3	6404.8	5683.6	5504.0	4294.4
30°	7918.1	7834.6	7632.2	7333.6	7027.4	6837.6	6784.4	6703.5	6060.7	5800.0	4549.9
32.5°	8677.3	8722.8	8497.6	8107.9	7599.3	7343.7	7088.1	6999.5	6475.7	6245.4	4843.5
35°	9375.7	9315.0	9135.3	8806.4	8350.9	7938.4	7538.5	7348.7	6974.2	6746.5	5167.4
37.5°	9892.0	9967.9	9626.3	9312.5	8859.5	8517.9	8125.6	7710.6	7487.9	7184.3	5562.2
40°	10380.4	10261.4	10031.1	9742.7	9322.6	9061.9	8803.8	8156.0	8034.5	7642.3	6007.6
42.5°	10294.3	10301.9	10175.4	9942.6	9638.9	9489.6	9401.0	8697.5	8530.5	8280.0	6442.8
45°	9942.6	9972.9	10016.0	9902.1	9927.4	9778.1	10016.0	9320.1	9155.6	8889.9	6943.9
47.5°	9555.4	9606.0	9595.9	9803.4	10038.7	10089.3	10684.0	10010.9	9940.0	9793.3	7637.2
50°	8912.6	8932.9	9127.7	9504.8	9826.2	10355.1	11185.1	10765.0	10873.8	10585.3	8462.2
52.5°	7814.4	7887.8	8388.8	8927.8	9575.6	10489.2	11524.2	11886.0	12161.9	11865.8	9254.3
55°	6425.1	6526.3	7019.8	8029.5	8978.4	10286.7	11832.9	12478.2	13037.4	12589.5	9735.1
57.5°	5169.9	5180.1	5622.9	6665.5	8130.7	9889.4	11989.8	12766.7	13518.3	13158.9	10322.2
60°	3940.1	3899.6	4296.9	5200.3	6703.5	8912.6	11597.6	12913.5	14118.0	13910.5	11028.2
62.5°	2535.6	2472.4	2905.1	3785.7	5235.7	7285.5	10813.1	12916.0	15054.3	14975.9	12210.0
65°	1255.2	1212.1	1584.1	2320.5	3623.8	5572.3	9694.6	12867.9	16198.1	16248.7	13361.4
67.5°	663.0	678.2	797.1	1176.7	2090.2	3937.6	8009.2	12303.6	16782.7	17066.1	13639.7
68°	609.9	614.9	708.6	979.3	1814.4	3651.6	7609.4	12139.1	16828.2	17177.4	13485.4
70°	496.0	503.6	536.5	614.9	981.9	2376.2	5870.9	10742.2	16142.4	16461.3	12207.4
72.5°	394.8	417.5	437.8	470.7	577.0	1247.6	3651.6	8371.1	13336.1	13371.5	9502.3
75°	301.1	318.9	359.3	387.2	450.4	685.8	1738.5	5104.1	8750.7	8320.5	5597.6
77.5°	232.8	248.0	265.7	303.7	377.1	463.1	531.4	2166.2	3717.4	3059.4	1581.6
80°	139.2	149.3	207.5	237.9	329.0	313.8	210.0	602.3	754.1	594.7	288.5
82.5°	81.0	88.6	118.9	182.2	230.3	169.5	124.0	187.3	184.7	162.0	96.2
85°	2.5	5.1	65.8	108.8	81.0	45.6	75.9	78.4	65.8	60.7	43.0
87.5°	0.0	2.5	17.7	15.2	17.7	10.1	15.2	20.2	25.3	22.8	17.7
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°	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7
2.5°	1776.5	1720.8	1596.8	1503.2	1401.9	1341.2	1280.5	1242.5	1222.3	1209.6	1219.7
5°	1822.0	1705.6	1505.7	1328.5	1212.1	1133.7	1055.2	1014.8	976.8	956.6	969.2
7.5°	1923.2	1748.6	1417.1	1224.8	1088.1	966.7	868.0	789.5	744.0	703.5	711.1
10°	2047.2	1773.9	1419.6	1164.1	966.7	774.4	635.2	536.5	480.8	445.4	442.8
12.5°	2173.8	1872.6	1429.8	1103.3	817.4	582.0	417.5	344.2	311.3	293.5	293.5
15°	2366.1	1961.2	1404.5	992.0	620.0	379.6	286.0	260.6	248.0	232.8	235.3
17.5°	2533.1	2102.9	1391.8	825.0	425.1	273.3	237.9	210.0	197.4	182.2	182.2
20°	2758.3	2191.5	1323.5	637.7	293.5	227.8	192.3	167.0	146.8	134.1	136.7
22.5°	2963.3	2259.8	1202.0	435.3	225.2	179.7	141.7	116.4	98.7	83.5	86.0
25°	3186.0	2328.1	1024.9	268.2	159.4	111.3	75.9	55.7	38.0	27.8	27.8
27.5°	3345.4	2348.4	794.6	159.4	96.2	50.6	17.7	2.5	0.0	0.0	0.0
30°	3507.4	2356.0	549.1	86.0	38.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	3692.1	2353.4	344.2	45.6	2.5	0.0	0.0	0.0	0.0	0.0	0.0
35°	3833.8	2310.4	164.5	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	4048.9	2247.1	50.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	4294.4	2133.3	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	4514.5	2016.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	4765.0	1872.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	5205.4	1811.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	5779.8	1763.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	6134.1	1622.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6318.8	1475.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6592.1	1404.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6997.0	1409.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7629.6	1480.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7978.9	1409.5	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7682.8	1128.6	48.1	12.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0
68°	7427.2	1037.5	48.1	12.7	2.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	6139.1	675.7	45.6	12.7	5.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4471.5	374.5	38.0	10.1	5.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	2601.4	187.3	27.8	10.1	5.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	678.2	93.6	22.8	12.7	7.6	2.5	0.0	0.0	0.0	0.0	0.0
80°	134.1	60.7	20.2	15.2	10.1	5.1	0.0	0.0	0.0	0.0	0.0
82.5°	63.3	43.0	20.2	15.2	12.7	7.6	2.5	0.0	0.0	0.0	0.0
85°	32.9	20.2	20.2	15.2	15.2	10.1	5.1	0.0	0.0	0.0	0.0
87.5°	15.2	7.6	7.6	7.6	7.6	5.1	2.5	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)