

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: P482389

Luminaire Tested: **IFLD-M-SA4B-730-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482389  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-730-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

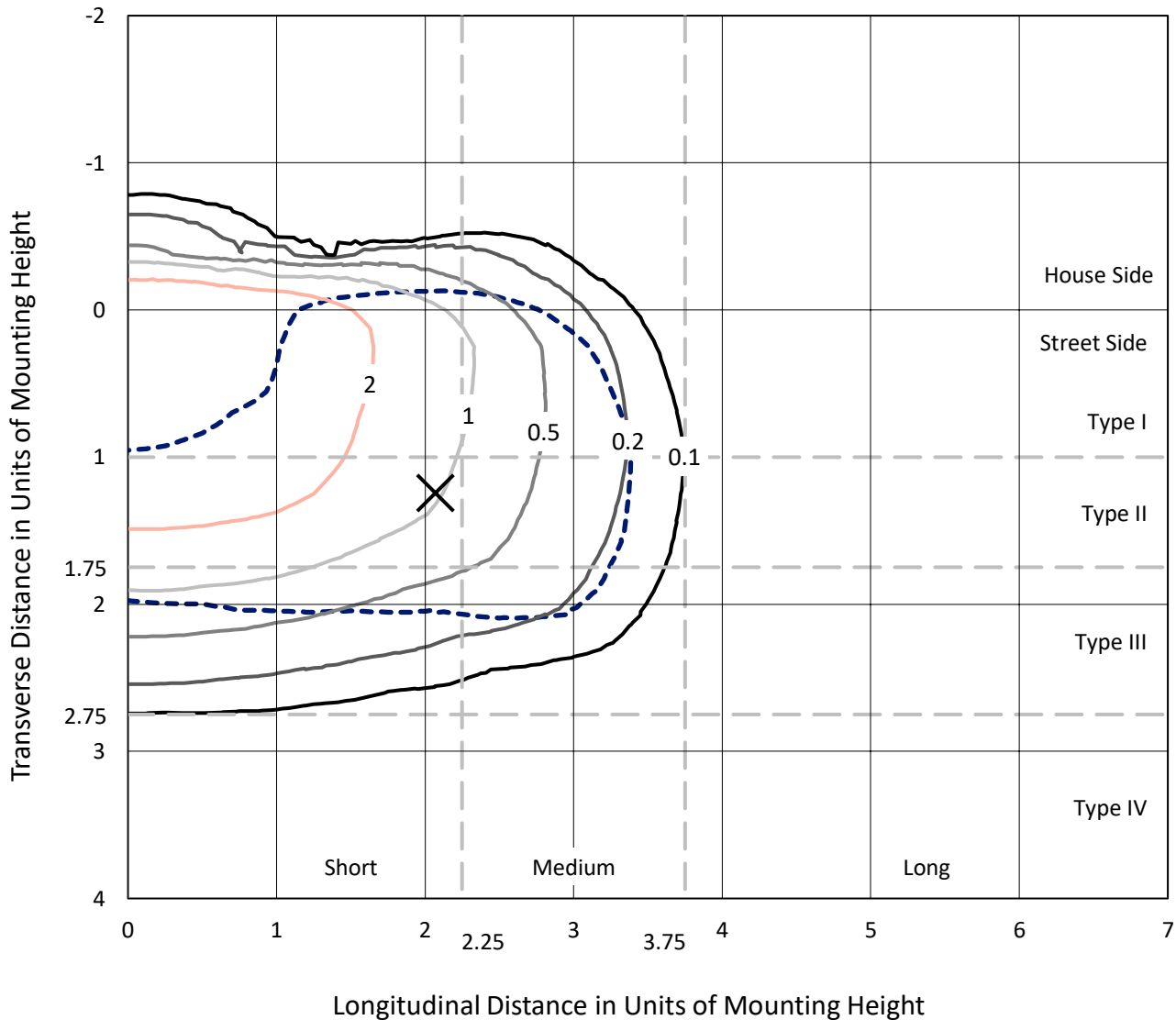
Lumens per Lamp: N/A  
Luminaire Lumens: 15432.3 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

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

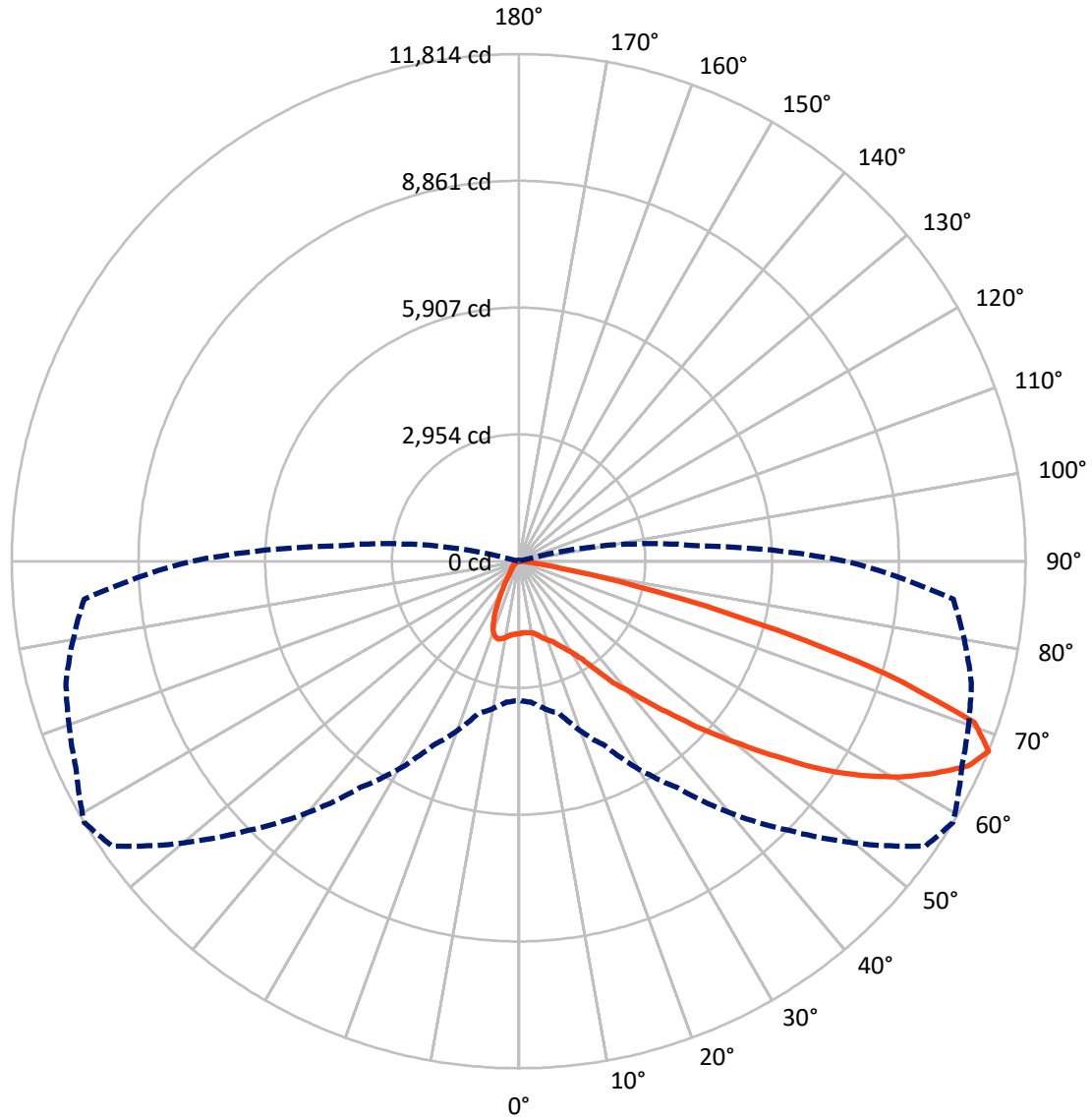
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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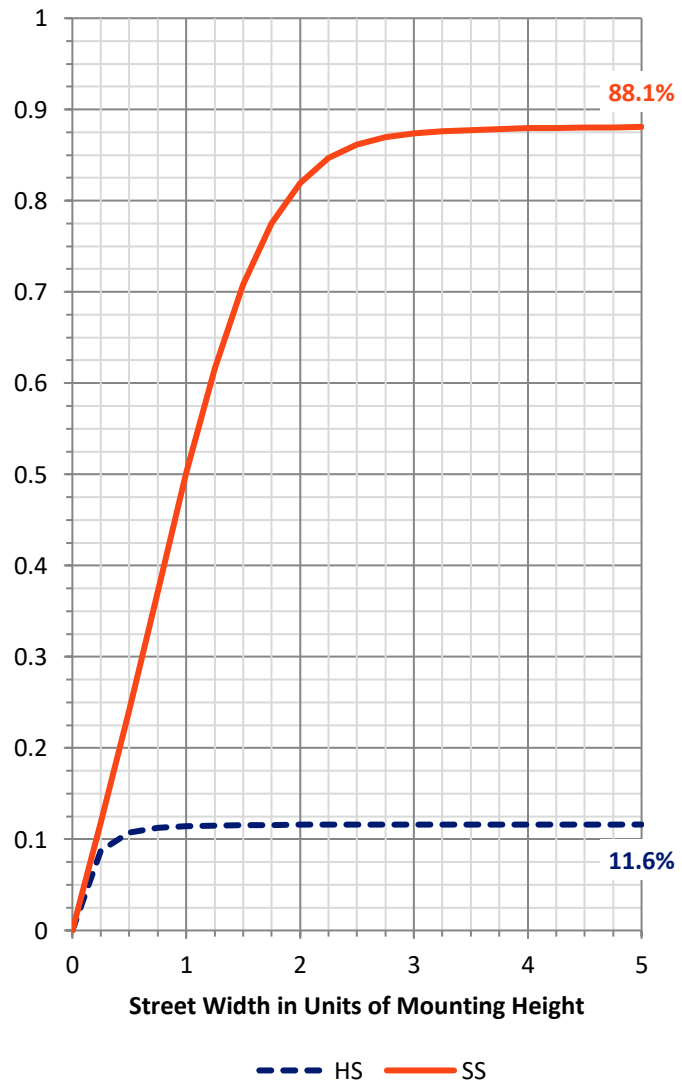
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1812.8	0.0	1812.8
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	13619.5	0.0	13619.5
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	15432.3	0.0	15432.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.8	1.0
10°-20°	464.4	3.0
20°-30°	811.7	5.3
30°-40°	1429.1	9.3
40°-50°	2526.3	16.4
50°-60°	4000.0	25.9
60°-70°	4437.1	28.8
70°-80°	1539.6	10.0
80°-90°	63.4	0.4
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°	15432.3	100.0
0°-180°	15432.3	100.0

**Coefficient of Utilization**

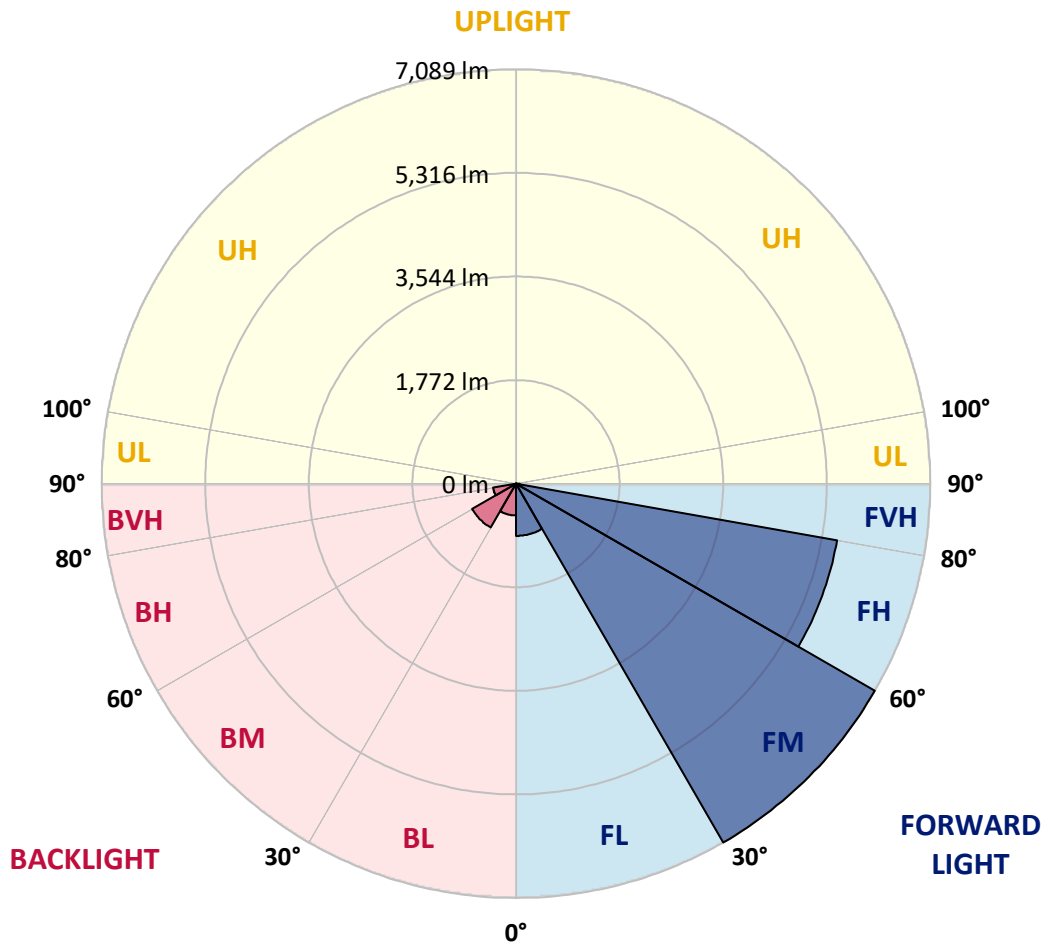


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	893.6	5.8			
FM (30°-60°)	7088.6	45.9			
FH (60°-80°)	5578.0	36.1			G3/7500
FVH (80°-90°)	59.3	0.4			G1/100
BL (0°-30°)	543.3	3.5	B2/1000		
BM (30°-60°)	866.7	5.6	B1/1000		
BH (60°-80°)	398.7	2.6	B1/500		G1/500
BVH (80°-90°)	4.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6
2.5°	1643.6	1620.2	1641.5	1643.6	1645.7	1664.9	1686.3	1671.3	1669.2	1686.3	1701.2
5°	1577.5	1566.9	1592.5	1605.2	1626.6	1643.6	1677.7	1679.9	1682.0	1701.2	1726.8
7.5°	1549.8	1524.2	1554.1	1569.0	1583.9	1624.4	1664.9	1686.3	1716.1	1739.5	1765.1
10°	1494.4	1513.6	1522.1	1547.7	1590.3	1637.2	1686.3	1696.9	1763.0	1782.2	1844.0
12.5°	1513.6	1526.4	1543.4	1549.8	1596.7	1667.1	1733.2	1737.4	1805.6	1888.8	1920.8
15°	1562.6	1554.1	1560.5	1569.0	1624.4	1682.0	1788.6	1807.8	1871.7	1965.5	2044.4
17.5°	1667.1	1652.1	1641.5	1639.4	1652.1	1705.4	1831.2	1888.8	1948.5	2076.4	2116.9
20°	1929.3	1916.5	1873.9	1763.0	1724.6	1745.9	1882.4	1963.4	2046.5	2189.4	2255.4
22.5°	2327.9	2340.7	2240.5	2084.9	1925.0	1841.9	1963.4	2033.7	2165.9	2347.1	2406.8
25°	2799.1	2773.5	2652.0	2470.8	2219.2	2023.1	2093.4	2172.3	2334.3	2483.5	2507.0
27.5°	3167.9	3138.0	3044.2	2824.6	2607.2	2289.6	2264.0	2313.0	2504.9	2639.2	2613.6
30°	3532.4	3543.1	3479.1	3219.0	2950.4	2615.7	2453.7	2475.0	2622.1	2794.8	2737.2
32.5°	3997.1	3971.5	3935.3	3707.2	3389.6	3031.4	2754.3	2720.2	2784.1	3012.2	2944.0
35°	4429.9	4415.0	4365.9	4135.7	3858.6	3468.4	3197.7	3121.0	3106.0	3359.7	3240.3
37.5°	4807.2	4781.6	4707.0	4559.9	4291.3	3963.0	3666.7	3598.5	3596.3	3771.2	3540.9
40°	5124.8	5144.0	5135.5	4973.5	4826.4	4564.2	4110.1	4001.4	3992.9	4086.7	3952.4
42.5°	5536.3	5581.1	5557.6	5525.6	5348.7	5246.4	4732.6	4566.3	4491.7	4683.6	4562.1
45°	6158.8	6175.8	6190.7	6111.9	5934.9	5956.2	5376.4	5178.1	5159.0	5444.6	5171.7
47.5°	6740.7	6696.0	6800.4	6804.7	6796.2	6698.1	6071.4	5924.3	5949.9	6167.3	5885.9
50°	6885.7	7000.8	7288.6	7341.9	7480.5	7570.0	6843.1	6696.0	6738.6	6985.9	6664.0
52.5°	6998.7	7173.5	7461.3	7851.4	8224.5	8437.7	7706.5	7587.1	7584.9	7736.3	7292.9
55°	7197.0	7303.5	7553.0	8090.2	8800.1	9149.7	8746.8	8554.9	8382.2	8488.8	7945.2
57.5°	7177.8	7218.3	7606.3	8269.2	9256.3	9891.5	9601.6	9418.3	9196.6	9134.8	8695.6
60°	6840.9	6936.9	7371.8	8147.7	9537.7	10469.3	10398.9	10211.3	9829.7	9684.8	9271.2
62.5°	6173.7	6301.6	6642.7	7721.4	9128.4	10499.1	10948.9	10878.6	10452.2	10192.1	10021.6
65°	5003.3	5063.0	5455.3	6638.4	8203.2	10040.8	11599.1	11511.7	11119.5	10731.5	10407.4
67.5°	3240.3	3297.9	3675.2	4739.0	6442.3	8857.6	11573.5	11814.4	11390.2	10923.3	10166.6
70°	1530.6	1515.7	1867.5	2632.8	4127.2	6764.2	10791.2	11266.6	10906.3	9902.2	8444.1
72.5°	466.9	507.4	776.0	1166.1	2119.0	4218.8	8459.0	8904.5	8791.5	7911.1	5636.5
75°	206.8	223.8	304.8	477.5	859.1	1731.0	5225.0	5621.6	5572.5	4666.5	2573.1
77.5°	132.2	145.0	191.9	272.9	390.1	550.0	2406.8	2792.7	2707.4	1639.4	673.6
80°	93.8	100.2	136.4	187.6	245.2	226.0	829.3	984.9	944.4	445.5	181.2
82.5°	51.2	55.4	100.2	138.6	164.1	115.1	232.4	289.9	302.7	198.3	87.4
85°	19.2	23.4	61.8	98.1	85.3	53.3	68.2	83.1	108.7	108.7	40.5
87.5°	0.0	2.1	25.6	42.6	21.3	14.9	19.2	23.4	29.8	51.2	14.9
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°	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6
2.5°	1711.8	1696.9	1703.3	1714.0	1690.5	1703.3	1677.7	1696.9	1703.3	1677.7	1690.5
5°	1733.2	1748.1	1739.5	1722.5	1707.6	1711.8	1705.4	1690.5	1703.3	1707.6	1699.0
7.5°	1795.0	1777.9	1782.2	1763.0	1733.2	1731.0	1690.5	1679.9	1684.1	1688.4	1673.5
10°	1852.5	1863.2	1841.9	1827.0	1777.9	1745.9	1690.5	1630.8	1624.4	1598.8	1620.2
12.5°	1954.9	1929.3	1920.8	1871.7	1822.7	1716.1	1596.7	1505.1	1428.3	1400.6	1372.9
15°	2040.1	2035.9	2020.9	1946.3	1833.3	1639.4	1413.4	1200.2	1053.1	961.4	948.7
17.5°	2157.4	2138.2	2110.5	1993.2	1754.5	1439.0	1053.1	784.5	637.4	579.8	558.5
20°	2246.9	2232.0	2193.6	1982.6	1611.6	1072.3	652.3	498.8	462.6	451.9	454.1
22.5°	2377.0	2330.1	2257.6	1929.3	1351.6	714.2	469.0	445.5	439.2	430.6	432.8
25°	2489.9	2447.3	2295.9	1837.6	963.6	473.3	434.9	422.1	411.4	400.8	398.6
27.5°	2590.1	2536.8	2336.5	1650.0	603.3	407.2	402.9	388.0	366.7	349.6	343.2
30°	2688.2	2626.4	2347.1	1298.3	407.2	368.8	358.1	334.7	307.0	283.5	279.3
32.5°	2852.3	2777.7	2332.2	927.3	351.7	328.3	304.8	277.1	236.6	217.4	213.2
35°	3108.2	2995.2	2313.0	545.7	315.5	289.9	253.7	217.4	187.6	168.4	164.1
37.5°	3402.4	3206.2	2257.6	364.5	289.9	255.8	208.9	172.7	147.1	132.2	127.9
40°	3839.4	3515.3	2044.4	298.5	257.9	217.4	168.4	136.4	117.2	106.6	102.3
42.5°	4321.2	3869.2	1716.1	268.6	228.1	185.5	134.3	110.9	95.9	85.3	85.3
45°	4898.9	4238.0	1323.8	245.2	202.5	153.5	110.9	89.5	76.7	68.2	64.0
47.5°	5542.7	4572.7	893.2	221.7	170.5	125.8	91.7	68.2	55.4	49.0	49.0
50°	6118.3	4869.0	569.2	194.0	149.2	104.5	74.6	55.4	44.8	36.2	34.1
52.5°	6640.6	5095.0	392.3	170.5	127.9	85.3	61.8	44.8	34.1	27.7	27.7
55°	7175.6	5210.1	289.9	147.1	110.9	72.5	51.2	40.5	29.8	23.4	21.3
57.5°	7614.8	5259.1	221.7	127.9	93.8	57.6	44.8	34.1	25.6	19.2	17.1
60°	7990.0	5235.7	172.7	106.6	74.6	49.0	38.4	27.7	21.3	14.9	12.8
62.5°	8209.6	5095.0	136.4	91.7	59.7	42.6	32.0	23.4	14.9	10.7	8.5
65°	8213.8	4796.5	106.6	68.2	44.8	36.2	27.7	19.2	10.7	4.3	2.1
67.5°	7625.4	4150.6	85.3	53.3	36.2	27.7	21.3	14.9	4.3	0.0	0.0
70°	5964.8	3140.1	70.3	42.6	29.8	23.4	14.9	8.5	2.1	0.0	0.0
72.5°	3801.0	1880.2	57.6	34.1	25.6	17.1	10.7	6.4	0.0	0.0	0.0
75°	1590.3	579.8	44.8	29.8	19.2	12.8	8.5	2.1	0.0	0.0	0.0
77.5°	409.3	183.3	36.2	25.6	19.2	10.7	6.4	2.1	0.0	0.0	0.0
80°	121.5	68.2	29.8	21.3	14.9	8.5	4.3	2.1	0.0	0.0	0.0
82.5°	55.4	40.5	25.6	19.2	12.8	8.5	4.3	0.0	0.0	0.0	0.0
85°	21.3	12.8	12.8	10.7	10.7	6.4	2.1	0.0	0.0	0.0	0.0
87.5°	8.5	4.3	4.3	4.3	2.1	2.1	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)