

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: P481824

Luminaire Tested: **IFLD-S-SA3C-830-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481824
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-830-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

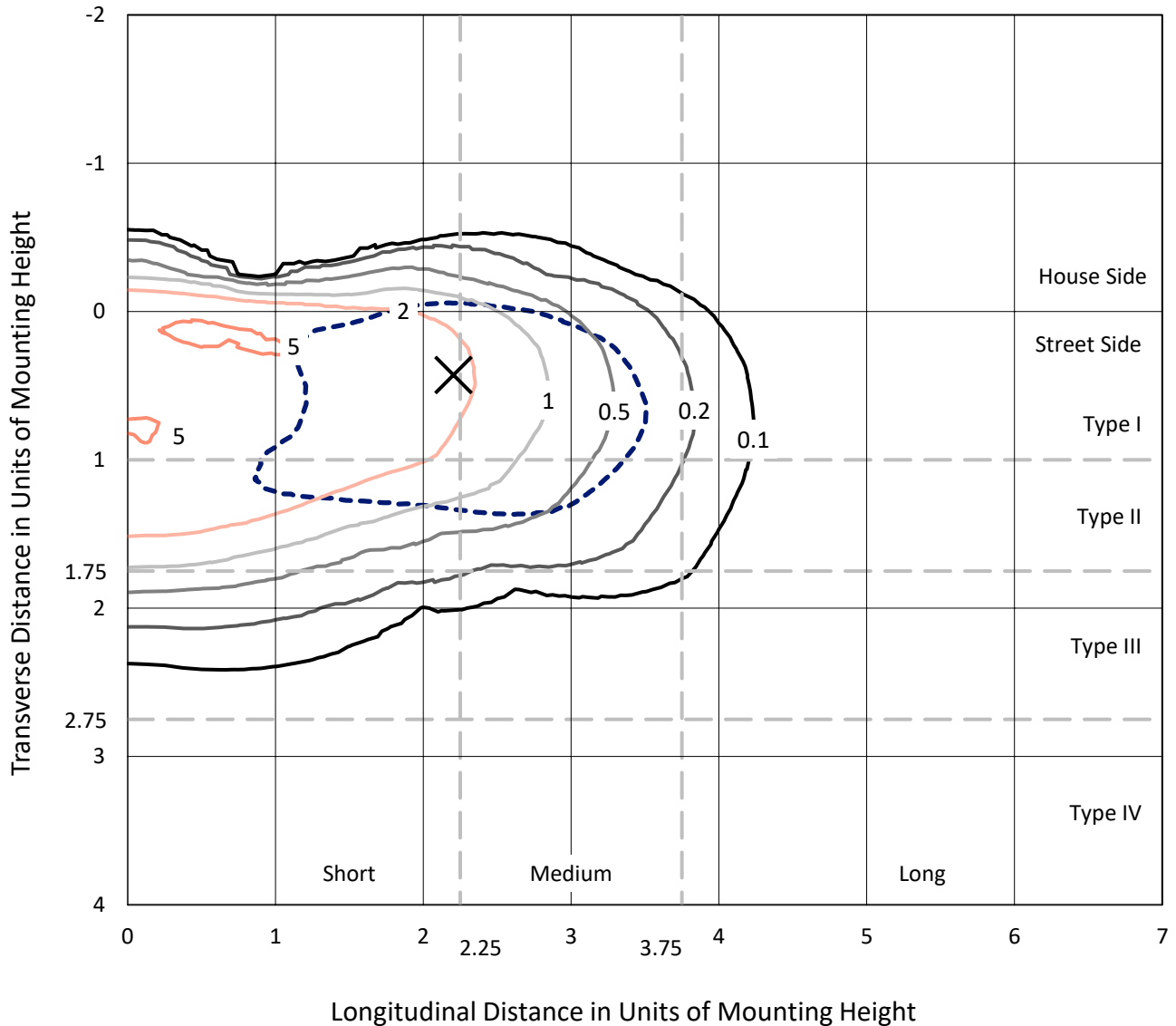
Lumens per Lamp: N/A
Luminaire Lumens: 12120.8 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 160.8
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

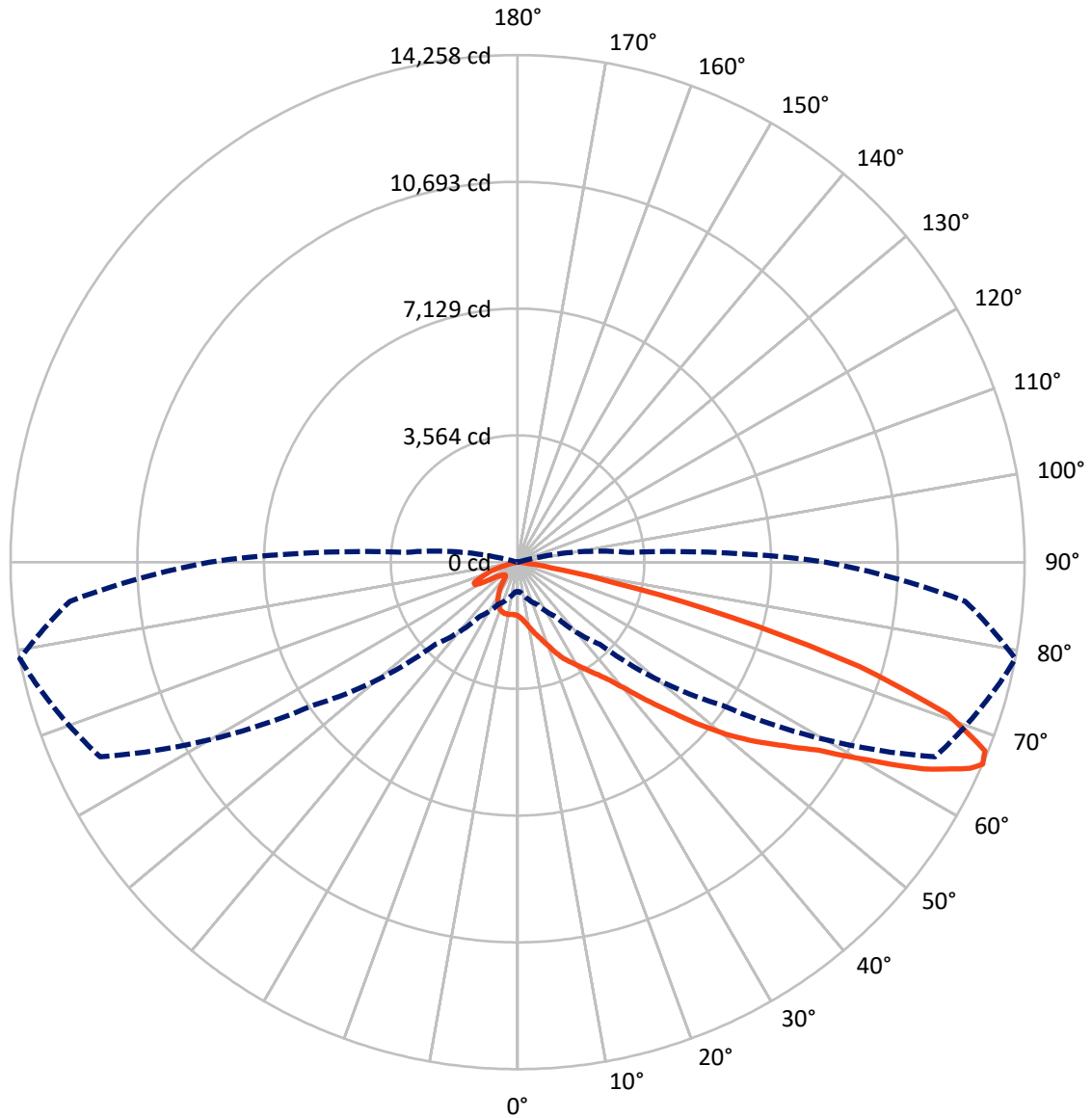
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 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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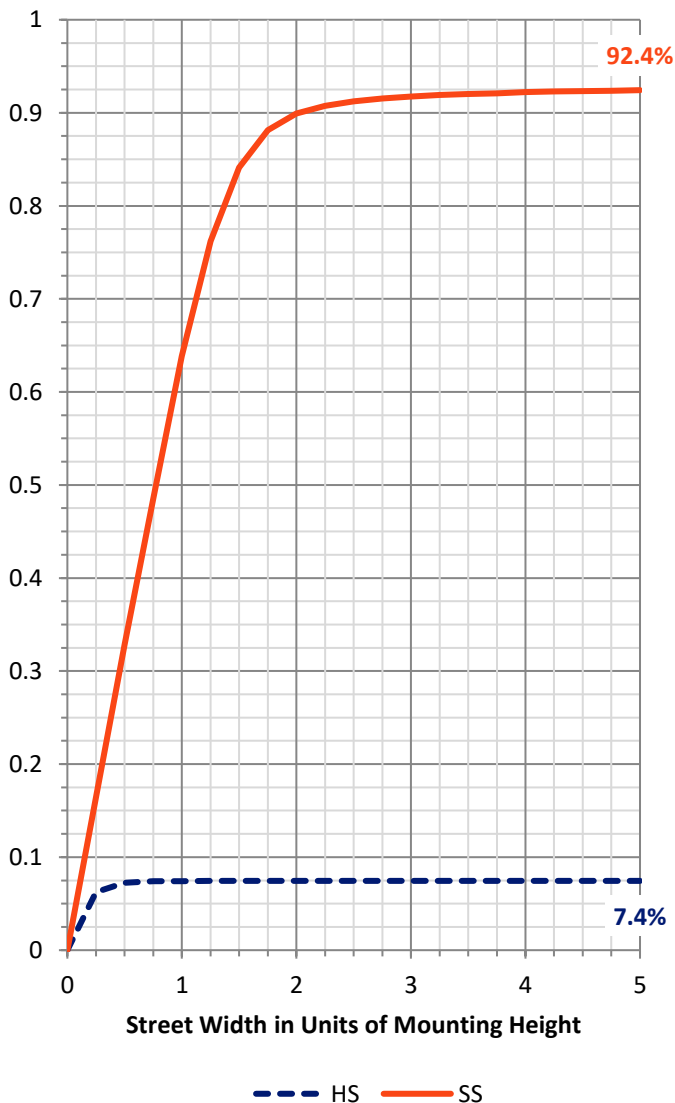
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	910.1	0.0	910.1
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	11210.7	0.0	11210.7
	% Fixture	92.5	0.0	92.5
Total	Lumens	12120.8	0.0	12120.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.6	1.2
10°-20°	392.5	3.2
20°-30°	652.0	5.4
30°-40°	1119.9	9.2
40°-50°	2028.9	16.7
50°-60°	3207.1	26.5
60°-70°	3263.5	26.9
70°-80°	1244.5	10.3
80°-90°	69.8	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°	12120.8	100.0
0°-180°	12120.8	100.0



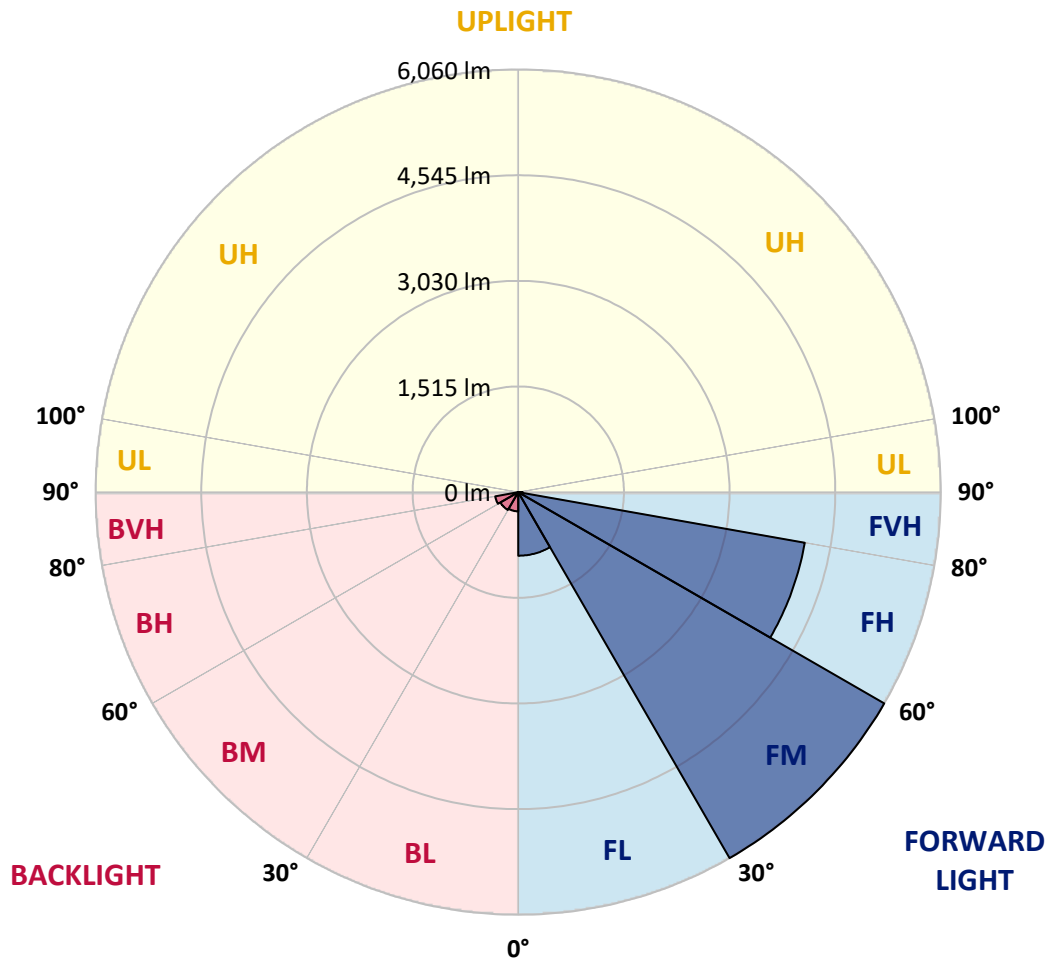
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	911.9	7.5			
FM (30°-60°)	6060.1	50.0			
FH (60°-80°)	4172.5	34.4			G2/5000
FVH (80°-90°)	66.2	0.5			G1/100
BL (0°-30°)	275.2	2.3	B1/500		
BM (30°-60°)	295.8	2.4	B1/1000		
BH (60°-80°)	335.5	2.8	B1/500		G1/500
BVH (80°-90°)	3.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1508.0	1508.0	1508.0	1508.0	1508.0	1508.0	1508.0	1508.0	1508.0	1508.0	1508.0
2.5°	1707.9	1706.0	1698.6	1685.5	1668.7	1663.1	1638.8	1605.1	1586.5	1565.9	1556.6
5°	1825.6	1816.3	1838.7	1829.4	1833.1	1788.3	1758.4	1734.1	1663.1	1635.0	1590.2
7.5°	1851.8	1861.1	1859.3	1874.2	1889.2	1906.0	1885.4	1849.9	1778.9	1737.8	1689.2
10°	1851.8	1848.1	1863.0	1883.6	1926.5	1963.9	2020.0	1973.3	1919.1	1870.5	1782.7
12.5°	1818.2	1812.6	1827.5	1870.5	1947.1	2023.7	2085.4	2130.2	2053.6	2014.4	1900.4
15°	1715.4	1709.8	1771.4	1848.1	1949.0	2074.2	2203.1	2276.0	2223.7	2162.0	2034.9
17.5°	1588.3	1595.8	1661.2	1788.3	1949.0	2098.5	2262.9	2421.7	2414.2	2335.8	2203.1
20°	1545.3	1551.0	1616.4	1707.9	1891.0	2115.3	2356.3	2580.6	2625.4	2532.0	2358.2
22.5°	1627.6	1622.0	1627.6	1683.6	1851.8	2100.3	2418.0	2761.8	2842.2	2769.3	2561.9
25°	1907.9	1904.1	1857.4	1771.4	1829.4	2066.7	2449.8	2881.4	3066.4	2999.1	2726.3
27.5°	2319.0	2304.0	2231.1	2051.7	1934.0	2087.2	2502.1	2997.3	3262.6	3186.0	2873.9
30°	2759.9	2724.4	2629.1	2404.9	2205.0	2163.9	2532.0	3083.2	3481.2	3384.1	3002.9
32.5°	3064.5	3111.2	3081.3	2853.4	2546.9	2341.4	2580.6	3191.6	3683.0	3619.5	3223.4
35°	3535.4	3589.6	3464.4	3262.6	2954.3	2623.5	2683.3	3279.4	3993.2	3886.7	3428.9
37.5°	4129.6	4170.7	4081.1	3698.0	3372.8	2971.1	2894.5	3462.5	4260.4	4210.0	3692.4
40°	4428.6	4626.7	4499.6	4153.9	3804.5	3456.9	3243.9	3677.4	4725.7	4684.6	4056.8
42.5°	4841.6	4940.6	4875.2	4619.2	4254.8	3976.4	3675.6	4096.0	5290.0	5290.0	4550.1
45°	5278.8	5282.6	5278.8	5069.6	4746.3	4602.4	4258.6	4621.1	5897.3	5964.6	5140.6
47.5°	5637.6	5749.7	5740.4	5615.2	5364.8	5310.6	4841.6	5219.0	6659.7	6777.5	5716.1
50°	5822.6	5947.8	5985.2	6050.6	6039.4	6153.3	5478.8	5912.3	7317.5	7607.1	6456.1
52.5°	5772.2	5781.5	6011.3	6269.2	6680.3	6999.8	6246.8	6699.0	8087.4	8373.3	7027.9
55°	5359.2	5323.7	5796.4	6091.7	6941.9	7517.4	7310.0	7680.0	8687.2	9122.6	7618.3
57.5°	4452.9	4462.3	4899.5	5499.3	6747.6	7723.0	8446.1	8961.9	9528.1	9967.2	8448.0
60°	3073.9	3062.7	3552.2	4245.5	5605.8	7339.9	9100.2	10623.1	10653.0	11275.2	9937.3
62.5°	1728.5	1732.2	2104.1	2696.4	3922.2	5998.3	9068.4	12387.0	12260.0	12805.6	11630.3
65°	979.2	1003.4	1259.4	1597.7	2348.8	4026.9	7799.6	13089.6	13498.9	13984.7	12658.0
66°	827.8	844.6	1063.2	1319.2	1874.2	3266.3	7020.4	12953.2	13887.5	14257.5	12637.4
67.5°	640.9	663.4	846.5	1046.4	1375.3	2261.0	5650.7	12274.9	13958.6	14175.3	12280.5
70°	439.1	454.1	594.2	794.2	939.9	1156.7	3378.5	10148.4	12665.5	12848.6	10673.5
72.5°	308.3	315.8	416.7	601.7	723.2	661.5	1676.1	7220.3	9692.5	10049.4	8302.3
75°	222.4	229.8	285.9	431.6	564.3	433.5	768.0	4611.7	5944.1	6224.4	5000.4
77.5°	160.7	170.0	194.3	278.4	409.2	304.6	377.5	2408.6	2802.9	2754.3	2150.8
80°	97.2	106.5	143.9	179.4	299.0	214.9	207.4	1005.3	994.1	943.7	676.4
82.5°	44.8	52.3	76.6	121.5	209.3	149.5	99.0	358.8	313.9	287.8	190.6
85°	13.1	16.8	44.8	91.6	106.5	72.9	59.8	123.3	128.9	110.2	63.5
87.5°	0.0	1.9	20.6	22.4	31.8	24.3	22.4	31.8	59.8	48.6	20.6
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°	1508.0	1508.0	1508.0	1508.0	1508.0	1508.0	1508.0	1508.0	1508.0	1508.0	1508.0
2.5°	1522.9	1509.8	1478.1	1429.5	1386.5	1364.1	1332.3	1304.3	1289.3	1287.5	1285.6
5°	1560.3	1524.8	1448.2	1360.4	1294.9	1223.9	1175.4	1139.9	1106.2	1074.5	1093.1
7.5°	1610.7	1554.7	1429.5	1315.5	1173.5	1081.9	996.0	945.5	915.6	887.6	883.9
10°	1689.2	1618.2	1416.4	1210.9	1048.3	913.8	825.9	753.1	711.9	663.4	682.0
12.5°	1795.7	1668.7	1367.8	1115.6	906.3	764.3	639.1	521.3	455.9	405.5	407.4
15°	1902.2	1735.9	1323.0	999.7	777.3	590.5	407.4	327.0	308.3	297.1	300.8
17.5°	2006.9	1790.1	1253.8	882.0	629.7	375.6	297.1	280.3	270.9	259.7	259.7
20°	2134.0	1825.6	1167.9	773.6	433.5	278.4	254.1	242.9	228.0	213.0	214.9
22.5°	2257.3	1855.5	1068.8	635.3	291.5	241.1	213.0	198.1	185.0	170.0	170.0
25°	2380.6	1864.9	939.9	455.9	235.4	192.5	166.3	145.8	132.7	119.6	121.5
27.5°	2464.7	1807.0	818.5	291.5	188.7	145.8	115.9	99.0	87.8	74.7	74.7
30°	2513.3	1700.4	687.7	205.5	142.0	99.0	69.1	52.3	41.1	31.8	29.9
32.5°	2561.9	1614.5	540.0	157.0	93.4	52.3	26.2	9.3	0.0	0.0	0.0
35°	2659.0	1517.3	362.5	87.8	31.8	1.9	0.0	0.0	0.0	0.0	0.0
37.5°	2720.7	1382.8	166.3	13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2875.8	1315.5	41.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3128.1	1268.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3404.6	1250.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3772.7	1300.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4161.4	1437.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4587.4	1565.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4959.3	1721.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5643.2	2087.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	6870.9	2806.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	8253.7	3341.1	20.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	8760.1	3328.0	35.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	8670.4	3144.9	35.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	8205.1	2793.6	31.8	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7046.5	2307.7	31.8	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	5372.3	1797.6	29.9	7.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	3242.0	956.7	24.3	9.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1291.2	336.4	18.7	7.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	349.4	100.9	11.2	7.5	5.6	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	91.6	37.4	9.3	7.5	3.7	1.9	0.0	0.0	0.0	0.0	0.0
85°	35.5	14.9	7.5	5.6	5.6	3.7	1.9	0.0	0.0	0.0	0.0
87.5°	11.2	5.6	5.6	3.7	3.7	1.9	1.9	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)