

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: P484708

Luminaire Tested: **IFLD-S-SA3A-730-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484708
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-730-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

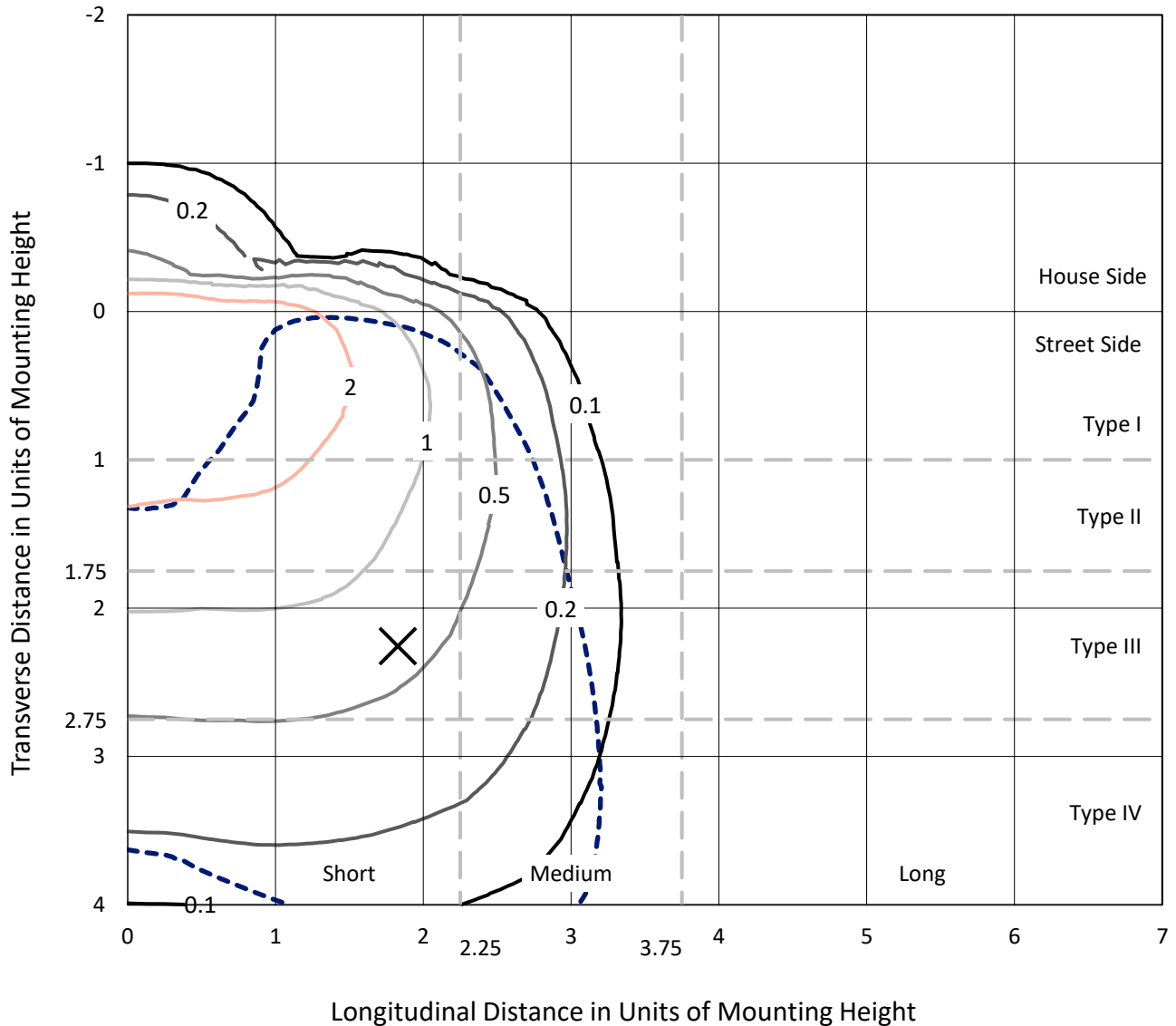
Lumens per Lamp: N/A
Luminaire Lumens: 10350 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
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

REPORT NUMBER: P484708
 CATALOG NUMBER: IFLD-S-SA3A-730-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

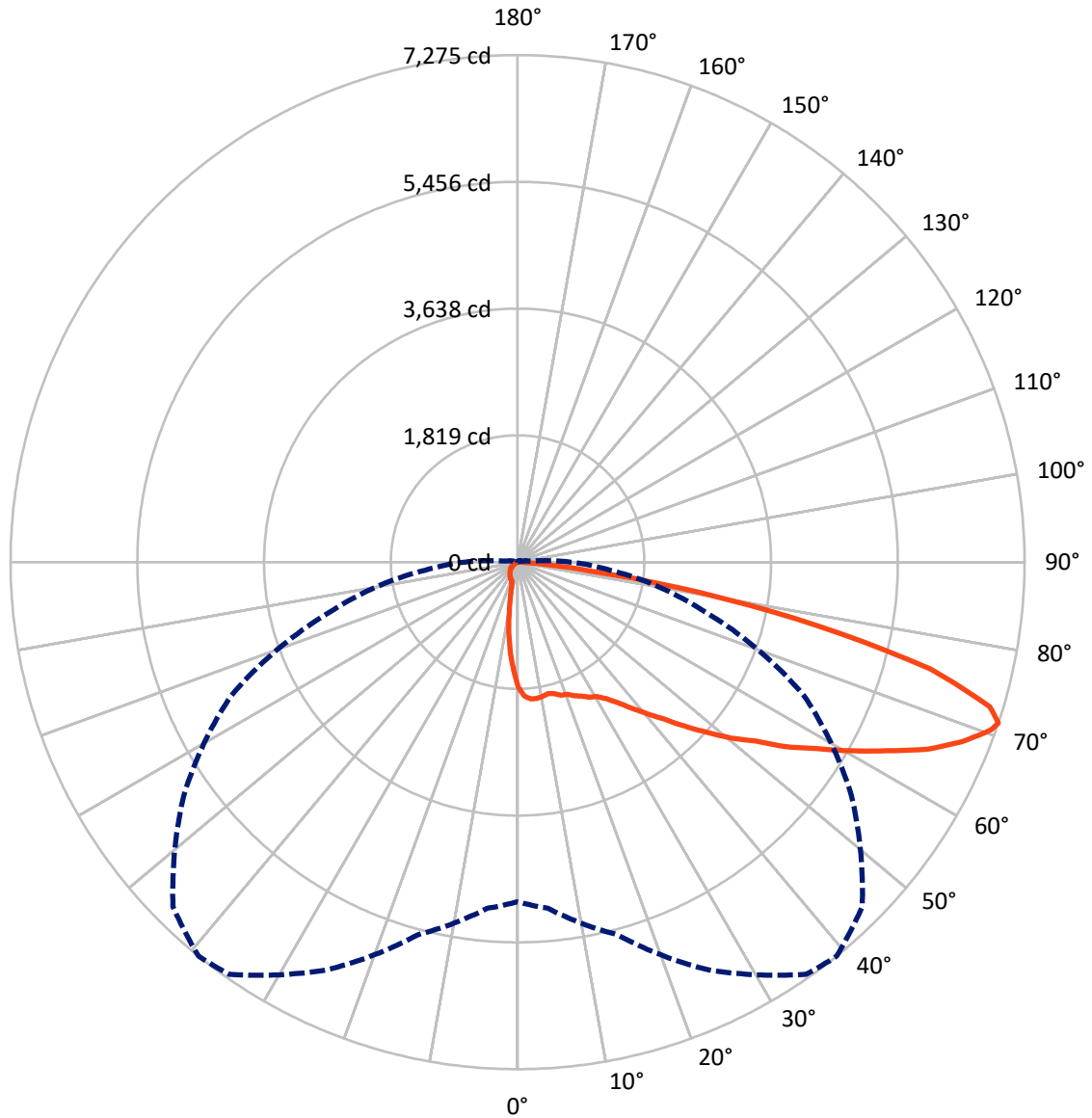
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P484708
CATALOG NUMBER: IFLD-S-SA3A-730-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical



REPORT NUMBER: P484708
 CATALOG NUMBER: IFLD-S-SA3A-730-U-SL4-HSS

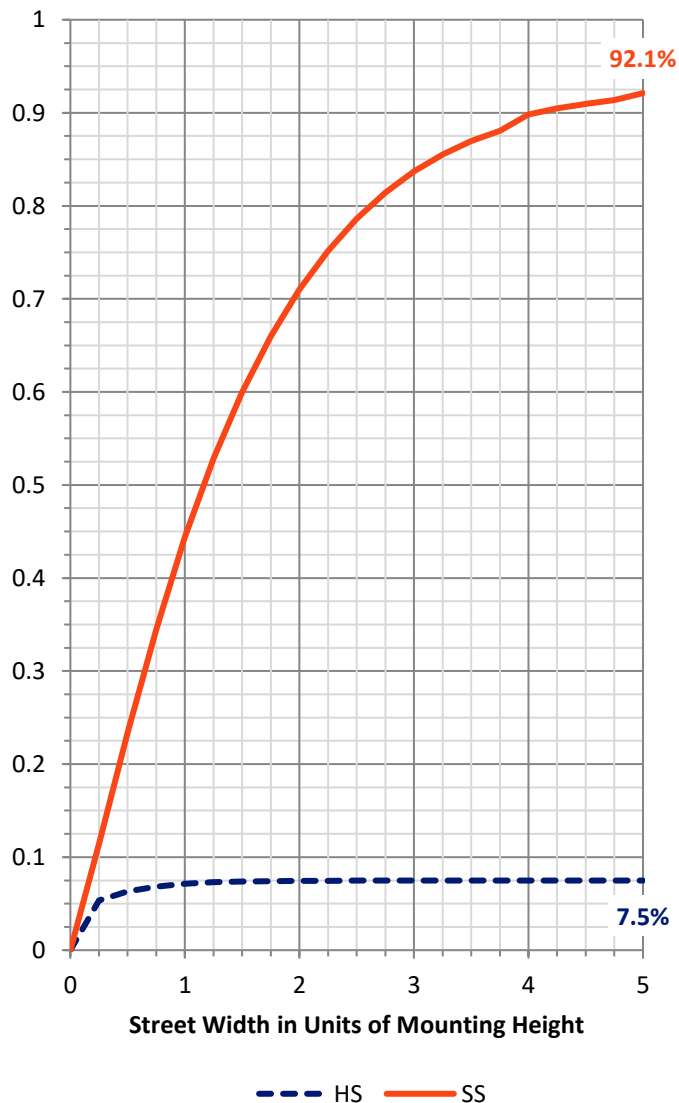
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	779.2	0.0	779.2
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	9570.8	0.0	9570.8
	% Fixture	92.5	0.0	92.5
Total	Lumens	10350.0	0.0	10350.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.6	1.5
10°-20°	370.7	3.6
20°-30°	595.1	5.8
30°-40°	911.0	8.8
40°-50°	1462.3	14.1
50°-60°	2147.9	20.8
60°-70°	2705.2	26.1
70°-80°	1805.4	17.4
80°-90°	201.8	1.9
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°	10350.0	100.0
0°-180°	10350.0	100.0

Coefficient of Utilization



REPORT NUMBER: P484708

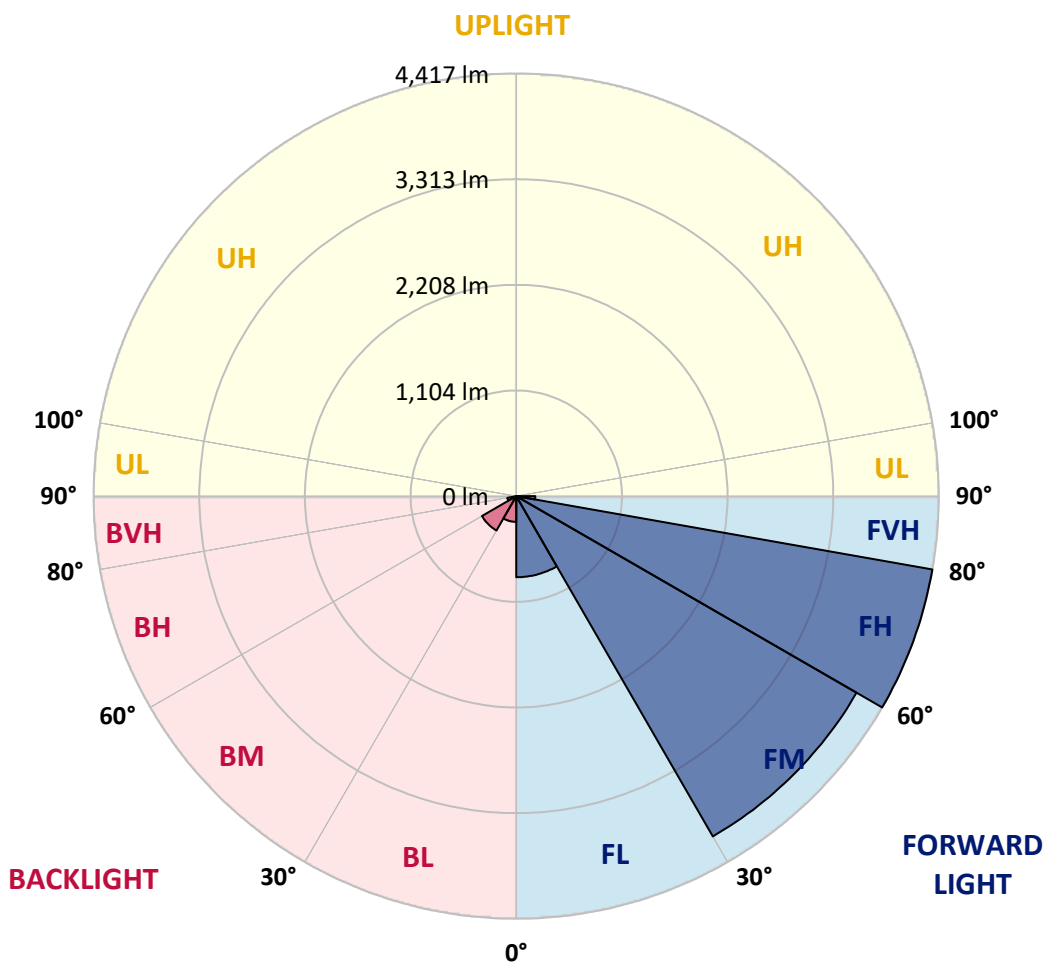
CATALOG NUMBER: IFLD-S-SA3A-730-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	847.4	8.2			
FM (30°-60°)	4107.0	39.7			
FH (60°-80°)	4416.8	42.7			G2/5000
FVH (80°-90°)	199.5	1.9			G2/225
BL (0°-30°)	269.0	2.6	B1/500		
BM (30°-60°)	414.2	4.0	B1/1000		
BH (60°-80°)	93.8	0.9	B0/110		G0/110
BVH (80°-90°)	2.2	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 IV Short





REPORT NUMBER: P484708

CATALOG NUMBER: IFLD-S-SA3A-730-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5
2.5°	1941.3	1960.3	1941.3	1933.2	1925.0	1926.4	1904.7	1908.7	1882.9	1849.0	1821.9
5°	2002.4	2028.2	2007.8	1998.3	1997.0	1971.2	1960.3	1934.5	1903.3	1850.4	1817.8
7.5°	1997.0	1991.5	2001.0	1992.9	1975.3	1975.3	1963.0	1926.4	1895.2	1835.4	1779.8
10°	1956.2	1972.5	1964.4	1954.9	1959.0	1960.3	1937.2	1911.5	1901.9	1842.2	1751.3
12.5°	1952.2	1925.0	1954.9	1956.2	1938.6	1937.2	1934.5	1927.7	1897.9	1843.6	1758.0
15°	1938.6	1927.7	1957.6	1959.0	1963.0	1959.0	1963.0	1957.6	1927.7	1896.5	1787.9
17.5°	1949.5	1937.2	1979.3	1999.7	1990.2	2009.2	2002.4	1978.0	1952.2	1915.5	1816.4
20°	1952.2	1969.8	2016.0	2024.1	2054.0	2022.8	2021.4	1995.6	1979.3	1940.0	1834.1
22.5°	2002.4	2010.6	2067.6	2085.2	2086.6	2082.5	2048.6	2018.7	2011.9	1963.0	1838.1
25°	2078.4	2106.9	2132.7	2143.6	2147.7	2128.7	2093.4	2055.4	2039.1	2007.8	1880.2
27.5°	2212.8	2195.2	2218.3	2234.6	2188.4	2195.2	2150.4	2117.8	2094.7	2067.6	1929.1
30°	2332.3	2316.0	2317.4	2314.6	2275.3	2238.6	2226.4	2169.4	2140.9	2151.7	2005.1
32.5°	2439.5	2404.2	2434.1	2420.5	2347.2	2336.4	2326.9	2254.9	2260.3	2310.6	2119.2
35°	2538.6	2526.4	2550.9	2526.4	2477.6	2474.8	2465.3	2402.9	2432.8	2504.7	2314.6
37.5°	2629.6	2633.7	2663.5	2651.3	2655.4	2658.1	2652.7	2586.2	2671.7	2833.2	2542.7
40°	2713.8	2708.3	2781.6	2819.7	2827.8	2857.7	2857.7	2841.4	2973.1	3155.0	2859.0
42.5°	2803.4	2816.9	2912.0	2975.8	3053.2	3079.0	3114.3	3122.4	3326.0	3533.7	3182.1
45°	2950.0	2926.9	3047.7	3198.4	3266.3	3357.3	3411.6	3457.7	3703.4	3988.5	3505.2
47.5°	3136.0	3089.8	3195.7	3414.3	3571.8	3646.4	3744.2	3805.3	4045.5	4340.1	3810.7
50°	3342.3	3294.8	3346.4	3647.8	3831.0	3966.8	4091.7	4169.1	4459.6	4733.8	4033.3
52.5°	3575.8	3532.4	3540.5	3890.8	4160.9	4260.0	4424.3	4539.7	4828.9	4971.4	4112.1
55°	3824.3	3813.4	3787.6	4128.4	4450.1	4672.7	4771.8	4910.3	5207.6	5100.4	4197.6
57.5°	4074.0	4040.1	4076.8	4443.3	4914.4	5047.4	5184.5	5267.3	5418.0	5213.0	4165.0
60°	4308.9	4311.6	4363.2	4785.4	5309.4	5498.1	5621.7	5571.4	5633.9	5261.9	4090.3
62.5°	4507.1	4501.7	4632.0	5169.6	5832.1	5959.7	6052.0	5828.0	5734.4	5309.4	3960.0
65°	4685.0	4746.0	4951.0	5627.1	6323.5	6470.2	6414.5	6071.0	5832.1	5169.6	3593.5
67.5°	4819.4	4910.3	5266.0	6057.5	6774.2	6877.4	6800.0	6255.7	5716.7	4621.1	2926.9
70°	4898.1	4990.4	5491.3	6415.8	7134.0	7208.7	7026.8	6113.1	5043.4	3346.4	1825.9
71°	4873.7	4986.3	5534.8	6453.9	7219.5	7275.2	6992.8	5849.7	4535.6	2802.0	1331.8
72.5°	4652.4	4758.3	5354.2	6426.7	7116.4	7082.4	6728.1	5217.1	3570.4	1786.6	688.3
75°	3418.3	3532.4	4595.4	5559.2	6352.0	6118.5	5445.2	3661.4	1862.6	547.1	200.9
77.5°	1702.4	1721.4	2852.2	4036.0	4659.2	4427.0	3649.1	2041.8	696.4	161.6	100.5
80°	784.7	790.1	1069.8	2090.6	2816.9	2651.3	2044.5	1007.3	315.0	85.5	78.7
82.5°	534.9	543.0	644.8	866.1	1223.2	1031.7	828.1	644.8	180.6	51.6	77.4
85°	97.7	89.6	361.1	458.9	472.4	320.4	286.4	558.0	67.9	29.9	67.9
87.5°	0.0	1.4	50.2	187.3	168.3	74.7	97.7	135.8	6.8	9.5	12.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P484708

CATALOG NUMBER: IFLD-S-SA3A-730-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5	1801.5
2.5°	1798.8	1783.8	1733.6	1677.9	1627.7	1588.4	1538.1	1515.0	1478.4	1458.0	1456.7
5°	1773.0	1732.3	1645.4	1551.7	1447.2	1360.3	1263.9	1209.6	1147.1	1128.1	1124.1
7.5°	1729.5	1671.2	1543.6	1411.9	1251.7	1098.3	980.2	853.9	776.5	743.9	731.7
10°	1702.4	1631.8	1458.0	1261.2	1037.2	821.3	655.7	521.3	450.7	416.8	408.6
12.5°	1702.4	1626.4	1388.8	1117.3	820.0	562.0	405.9	328.5	305.5	297.3	297.3
15°	1698.3	1615.5	1322.3	969.3	606.8	377.4	302.7	286.4	283.7	282.4	281.0
17.5°	1718.7	1596.5	1254.4	810.5	429.0	297.3	278.3	275.6	272.9	272.9	270.2
20°	1733.6	1585.6	1172.9	642.1	320.4	275.6	267.4	263.4	262.0	260.7	263.4
22.5°	1721.4	1569.3	1072.5	480.6	279.7	262.0	256.6	252.5	249.8	249.8	251.1
25°	1744.5	1554.4	972.0	362.5	262.0	249.8	244.4	241.6	240.3	238.9	236.2
27.5°	1775.7	1561.2	852.6	291.9	247.1	237.6	232.1	229.4	228.1	225.4	228.1
30°	1813.7	1559.8	720.9	255.2	233.5	224.0	218.6	217.2	214.5	213.1	214.5
32.5°	1878.9	1595.1	585.1	236.2	218.6	210.4	205.0	203.6	202.3	200.9	199.6
35°	2018.7	1638.6	457.5	221.3	205.0	195.5	191.4	188.7	187.3	186.0	184.6
37.5°	2191.1	1735.0	348.9	207.7	191.4	181.9	177.8	176.5	171.1	169.7	168.3
40°	2407.0	1838.1	268.8	192.8	179.2	169.7	165.6	161.6	154.8	152.0	149.3
42.5°	2675.8	1938.6	221.3	179.2	165.6	158.8	152.0	145.3	139.8	134.4	131.7
45°	2944.6	2055.4	194.1	167.0	154.8	146.6	141.2	131.7	122.2	114.0	112.7
47.5°	3168.6	2097.4	177.8	153.4	143.9	137.1	129.0	116.8	103.2	95.0	93.7
50°	3335.5	2073.0	161.6	139.8	131.7	124.9	114.0	99.1	85.5	77.4	74.7
52.5°	3368.1	1965.8	146.6	129.0	119.5	111.3	99.1	82.8	67.9	59.7	58.4
55°	3345.0	1787.9	134.4	119.5	108.6	96.4	82.8	66.5	52.9	44.8	43.4
57.5°	3297.5	1577.5	120.8	107.2	95.0	82.8	67.9	54.3	39.4	31.2	31.2
60°	3136.0	1291.0	107.2	93.7	81.5	70.6	55.7	39.4	27.2	20.4	19.0
62.5°	2910.6	992.4	93.7	80.1	70.6	58.4	43.4	28.5	16.3	10.9	10.9
65°	2499.3	695.1	78.7	66.5	58.4	47.5	32.6	17.6	9.5	4.1	4.1
67.5°	1899.2	430.3	65.2	55.7	50.2	38.0	23.1	10.9	4.1	1.4	0.0
70°	1090.1	224.0	51.6	44.8	39.4	28.5	16.3	5.4	2.7	0.0	0.0
71°	761.6	165.6	46.2	39.4	35.3	25.8	13.6	4.1	1.4	0.0	0.0
72.5°	381.5	110.0	39.4	32.6	28.5	20.4	10.9	4.1	1.4	0.0	0.0
75°	135.8	70.6	27.2	21.7	20.4	14.9	6.8	2.7	1.4	0.0	0.0
77.5°	93.7	57.0	19.0	13.6	13.6	9.5	4.1	1.4	1.4	0.0	0.0
80°	85.5	31.2	12.2	8.1	6.8	5.4	2.7	1.4	0.0	0.0	0.0
82.5°	85.5	23.1	6.8	5.4	4.1	2.7	1.4	0.0	0.0	0.0	0.0
85°	59.7	12.2	4.1	4.1	2.7	1.4	0.0	0.0	0.0	0.0	0.0
87.5°	9.5	4.1	2.7	1.4	1.4	0.0	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)