

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: P484705

Luminaire Tested: **IFLD-S-SA2C-730-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484705
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-730-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

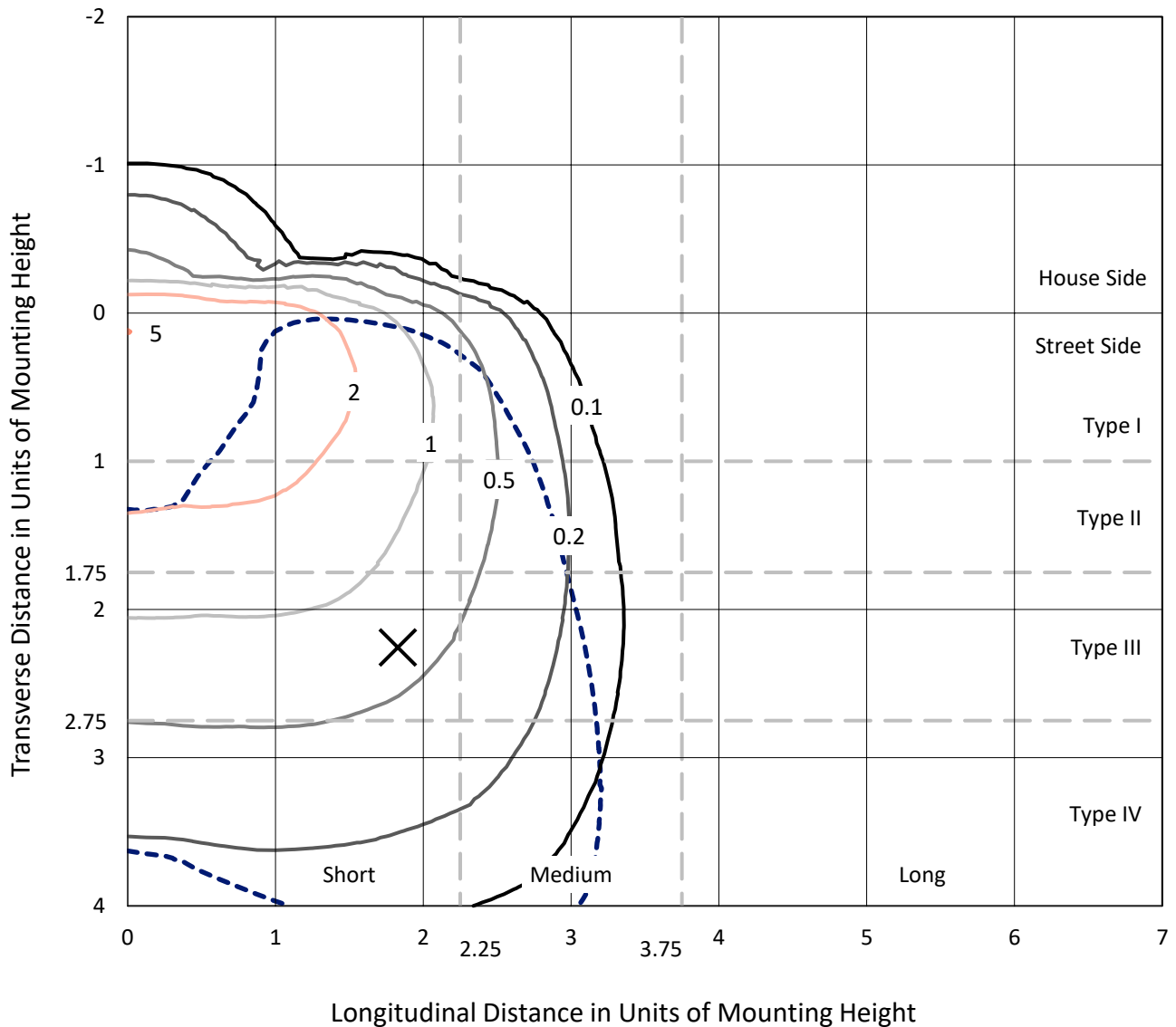
Lumens per Lamp: N/A
Luminaire Lumens: 10692.2 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2
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: P484705
 CATALOG NUMBER: IFLD-S-SA2C-730-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

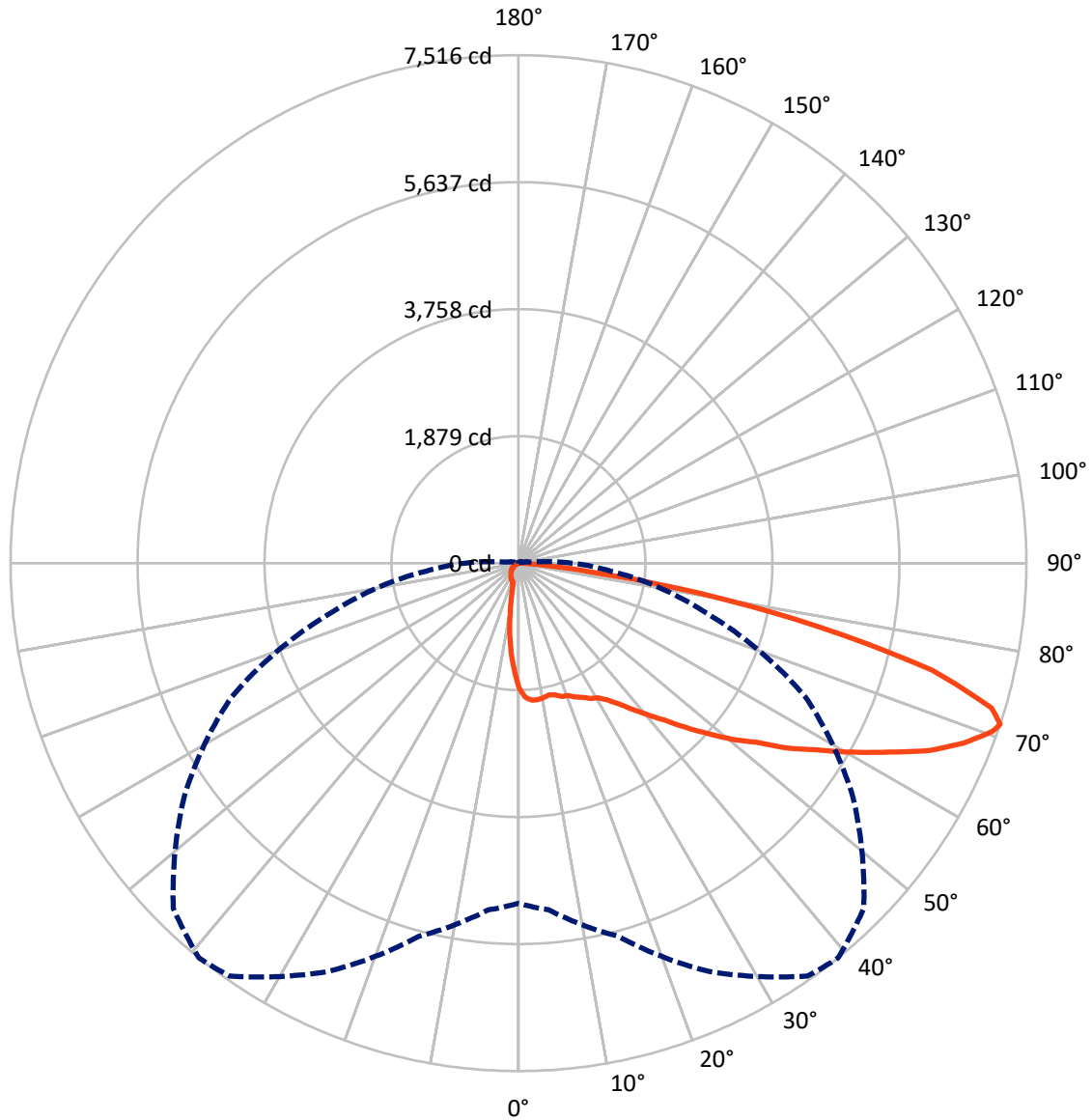
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - N/A

REPORT NUMBER: P484705
CATALOG NUMBER: IFLD-S-SA2C-730-U-SL4-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P484705
 CATALOG NUMBER: IFLD-S-SA2C-730-U-SL4-HSS

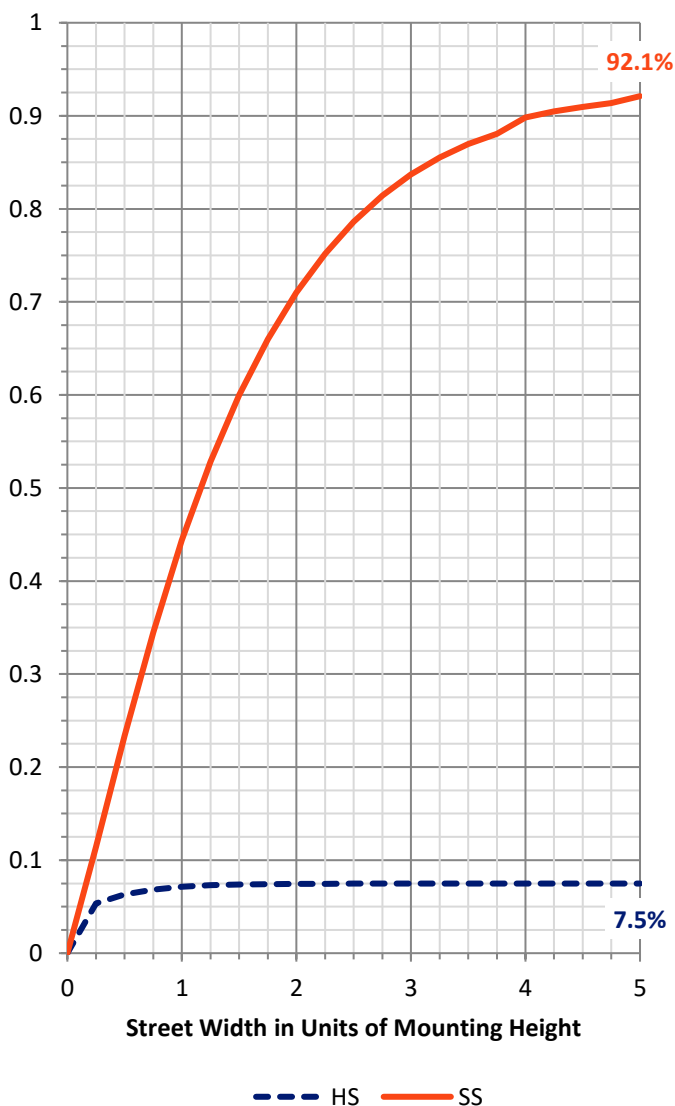
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	804.9	0.0	804.9
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	9887.3	0.0	9887.3
	% Fixture	92.5	0.0	92.5
Total	Lumens	10692.2	0.0	10692.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.6	1.5
10°-20°	383.0	3.6
20°-30°	614.8	5.8
30°-40°	941.1	8.8
40°-50°	1510.7	14.1
50°-60°	2218.9	20.8
60°-70°	2794.6	26.1
70°-80°	1865.1	17.4
80°-90°	208.4	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°	10692.2	100.0
0°-180°	10692.2	100.0

Coefficient of Utilization



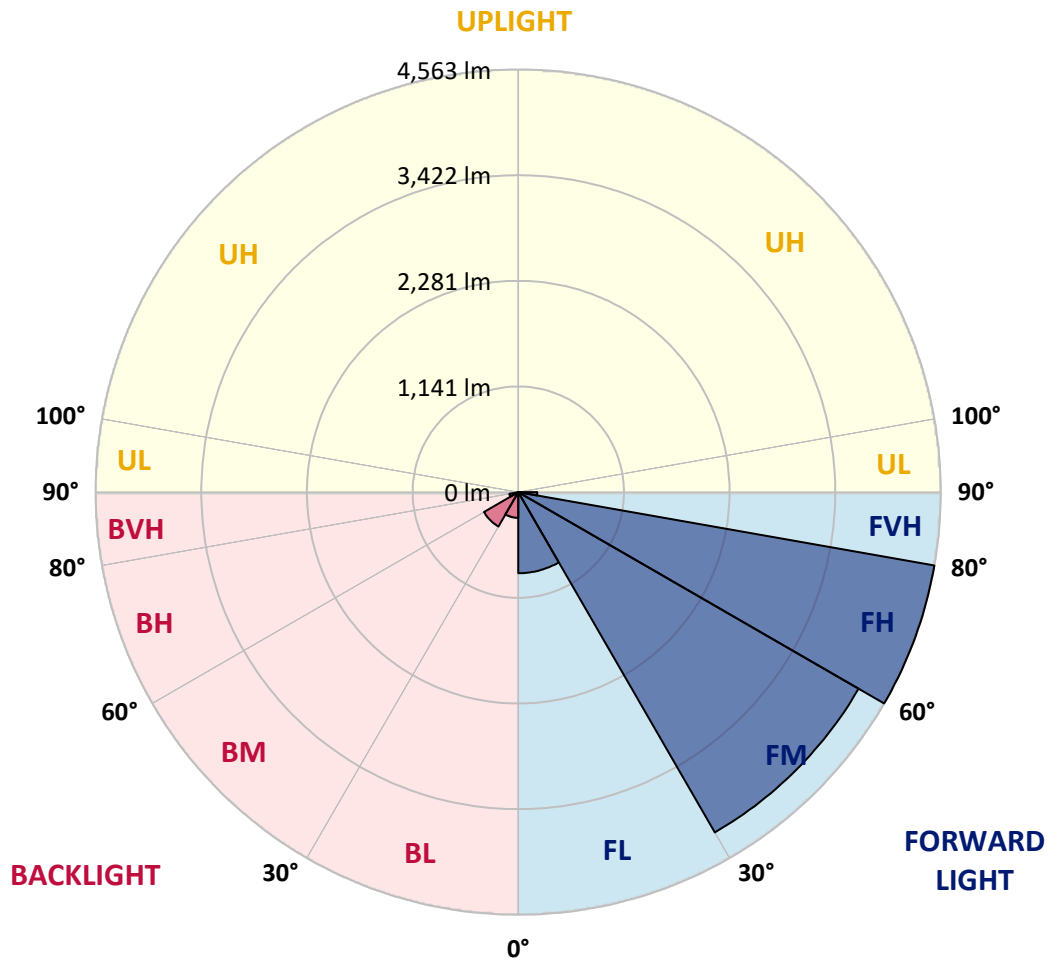
REPORT NUMBER: P484705
 CATALOG NUMBER: IFLD-S-SA2C-730-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	875.5	8.2			
FM (30°-60°)	4242.8	39.7			
FH (60°-80°)	4562.8	42.7			G2/5000
FVH (80°-90°)	206.1	1.9			G2/225
BL (0°-30°)	277.9	2.6	B1/500		
BM (30°-60°)	427.9	4.0	B1/1000		
BH (60°-80°)	96.9	0.9	B0/110		G0/110
BVH (80°-90°)	2.3	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: P484705

CATALOG NUMBER: IFLD-S-SA2C-730-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1861.0	1861.0	1861.0	1861.0	1861.0	1861.0	1861.0	1861.0	1861.0	1861.0	1861.0
2.5°	2005.5	2025.1	2005.5	1997.1	1988.7	1990.1	1967.6	1971.8	1945.2	1910.1	1882.1
5°	2068.6	2095.3	2074.2	2064.4	2063.0	2036.4	2025.1	1998.5	1966.2	1911.5	1877.9
7.5°	2063.0	2057.4	2067.2	2058.8	2040.6	2040.6	2027.9	1990.1	1957.8	1896.1	1838.6
10°	2020.9	2037.8	2029.3	2019.5	2023.7	2025.1	2001.3	1974.6	1964.8	1903.1	1809.2
12.5°	2016.7	1988.7	2019.5	2020.9	2002.7	2001.3	1998.5	1991.5	1960.6	1904.5	1816.2
15°	2002.7	1991.5	2022.3	2023.7	2027.9	2023.7	2027.9	2022.3	1991.5	1959.2	1847.0
17.5°	2013.9	2001.3	2044.8	2065.8	2056.0	2075.6	2068.6	2043.4	2016.7	1978.9	1876.5
20°	2016.7	2035.0	2082.6	2091.0	2121.9	2089.6	2088.2	2061.6	2044.8	2004.1	1894.7
22.5°	2068.6	2077.0	2135.9	2154.2	2155.6	2151.4	2116.3	2085.4	2078.4	2027.9	1898.9
25°	2147.1	2176.6	2203.2	2214.5	2218.7	2199.0	2162.6	2123.3	2106.5	2074.2	1942.4
27.5°	2286.0	2267.8	2291.6	2308.4	2260.7	2267.8	2221.5	2187.8	2164.0	2135.9	1992.9
30°	2409.4	2392.6	2394.0	2391.2	2350.5	2312.6	2300.0	2241.1	2211.7	2222.9	2071.4
32.5°	2520.2	2483.7	2514.6	2500.6	2424.8	2413.6	2403.8	2329.5	2335.1	2387.0	2189.2
35°	2622.6	2610.0	2635.2	2610.0	2559.5	2556.7	2546.8	2482.3	2513.2	2587.5	2391.2
37.5°	2716.5	2720.7	2751.6	2739.0	2743.2	2746.0	2740.4	2671.7	2760.0	2926.9	2626.8
40°	2803.5	2797.9	2873.6	2912.9	2921.3	2952.2	2952.2	2935.3	3071.4	3259.3	2953.6
42.5°	2896.1	2910.1	3008.2	3074.2	3154.1	3180.7	3217.2	3225.6	3436.0	3650.6	3287.3
45°	3047.5	3023.7	3148.5	3304.2	3374.3	3468.3	3524.3	3572.0	3825.9	4120.4	3621.1
47.5°	3239.7	3192.0	3301.4	3527.2	3689.8	3767.0	3867.9	3931.1	4179.3	4483.6	3936.7
50°	3452.8	3403.7	3457.0	3768.4	3957.7	4098.0	4227.0	4306.9	4607.0	4890.3	4166.7
52.5°	3694.0	3649.2	3657.6	4019.4	4298.5	4400.9	4570.6	4689.8	4988.5	5135.8	4248.0
55°	3950.7	3939.5	3912.8	4264.8	4597.2	4827.2	4929.6	5072.7	5379.8	5269.0	4336.4
57.5°	4208.7	4173.7	4211.5	4590.2	5076.9	5214.3	5355.9	5441.5	5597.2	5385.4	4302.7
60°	4451.4	4454.2	4507.5	4943.6	5485.0	5679.9	5807.5	5755.6	5820.2	5435.9	4225.6
62.5°	4656.1	4650.5	4785.1	5340.5	6024.9	6156.7	6252.1	6020.7	5923.9	5485.0	4090.9
65°	4839.8	4903.0	5114.7	5813.1	6532.6	6684.1	6626.6	6271.7	6024.9	5340.5	3712.3
67.5°	4978.7	5072.7	5440.1	6257.7	6998.2	7104.8	7024.9	6462.5	5905.7	4773.9	3023.7
70°	5060.0	5155.4	5672.9	6628.0	7369.9	7447.0	7259.1	6315.2	5210.1	3457.0	1886.3
71°	5034.8	5151.2	5717.8	6667.2	7458.2	7515.7	7224.0	6043.1	4685.6	2894.7	1375.8
72.5°	4806.2	4915.6	5531.3	6639.2	7351.6	7316.6	6950.5	5389.6	3688.4	1845.6	711.0
75°	3531.4	3649.2	4747.3	5743.0	6562.0	6320.8	5625.2	3782.4	1924.2	565.2	207.6
77.5°	1758.7	1778.3	2946.5	4169.5	4813.2	4573.4	3769.8	2109.3	719.5	166.9	103.8
80°	810.6	816.2	1105.1	2159.8	2910.1	2739.0	2112.1	1040.6	325.4	88.4	81.3
82.5°	552.6	561.0	666.2	894.8	1263.6	1065.9	855.5	666.2	186.5	53.3	79.9
85°	101.0	92.6	373.1	474.0	488.1	331.0	295.9	576.4	70.1	30.9	70.1
87.5°	0.0	1.4	51.9	193.5	173.9	77.1	101.0	140.2	7.0	9.8	12.6
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: P484705

CATALOG NUMBER: IFLD-S-SA2C-730-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1861.0	1861.0	1861.0	1861.0	1861.0	1861.0	1861.0	1861.0	1861.0	1861.0	1861.0
2.5°	1858.2	1842.8	1790.9	1733.4	1681.5	1640.9	1589.0	1565.1	1527.3	1506.2	1504.8
5°	1831.6	1789.5	1699.8	1603.0	1495.0	1405.3	1305.7	1249.6	1185.1	1165.4	1161.2
7.5°	1786.7	1726.4	1594.6	1458.5	1293.1	1134.6	1012.6	882.1	802.2	768.5	755.9
10°	1758.7	1685.7	1506.2	1302.9	1071.5	848.5	677.4	538.5	465.6	430.6	422.1
12.5°	1758.7	1680.1	1434.7	1154.2	847.1	580.6	419.3	339.4	315.6	307.1	307.1
15°	1754.5	1668.9	1366.0	1001.3	626.9	389.9	312.7	295.9	293.1	291.7	290.3
17.5°	1775.5	1649.3	1295.9	837.3	443.2	307.1	287.5	284.7	281.9	281.9	279.1
20°	1790.9	1638.1	1211.7	663.4	331.0	284.7	276.3	272.1	270.7	269.3	272.1
22.5°	1778.3	1621.2	1107.9	496.5	288.9	270.7	265.1	260.9	258.1	258.1	259.5
25°	1802.1	1605.8	1004.2	374.5	270.7	258.1	252.4	249.6	248.2	246.8	244.0
27.5°	1834.4	1612.8	880.7	301.5	255.2	245.4	239.8	237.0	235.6	232.8	235.6
30°	1873.7	1611.4	744.7	263.7	241.2	231.4	225.8	224.4	221.6	220.2	221.6
32.5°	1941.0	1647.9	604.5	244.0	225.8	217.4	211.8	210.4	209.0	207.6	206.2
35°	2085.4	1692.8	472.6	228.6	211.8	202.0	197.7	194.9	193.5	192.1	190.7
37.5°	2263.5	1792.3	360.4	214.6	197.7	187.9	183.7	182.3	176.7	175.3	173.9
40°	2486.5	1898.9	277.7	199.1	185.1	175.3	171.1	166.9	159.9	157.1	154.3
42.5°	2764.2	2002.7	228.6	185.1	171.1	164.1	157.1	150.1	144.5	138.8	136.0
45°	3041.9	2123.3	200.5	172.5	159.9	151.5	145.9	136.0	126.2	117.8	116.4
47.5°	3273.3	2166.8	183.7	158.5	148.7	141.6	133.2	120.6	106.6	98.2	96.8
50°	3445.8	2141.5	166.9	144.5	136.0	129.0	117.8	102.4	88.4	79.9	77.1
52.5°	3479.5	2030.7	151.5	133.2	123.4	115.0	102.4	85.5	70.1	61.7	60.3
55°	3455.6	1847.0	138.8	123.4	112.2	99.6	85.5	68.7	54.7	46.3	44.9
57.5°	3406.5	1629.6	124.8	110.8	98.2	85.5	70.1	56.1	40.7	32.3	32.3
60°	3239.7	1333.7	110.8	96.8	84.1	72.9	57.5	40.7	28.0	21.0	19.6
62.5°	3006.8	1025.2	96.8	82.7	72.9	60.3	44.9	29.5	16.8	11.2	11.2
65°	2581.9	718.1	81.3	68.7	60.3	49.1	33.7	18.2	9.8	4.2	4.2
67.5°	1962.0	444.6	67.3	57.5	51.9	39.3	23.8	11.2	4.2	1.4	0.0
70°	1126.2	231.4	53.3	46.3	40.7	29.5	16.8	5.6	2.8	0.0	0.0
71°	786.8	171.1	47.7	40.7	36.5	26.6	14.0	4.2	1.4	0.0	0.0
72.5°	394.1	113.6	40.7	33.7	29.5	21.0	11.2	4.2	1.4	0.0	0.0
75°	140.2	72.9	28.0	22.4	21.0	15.4	7.0	2.8	1.4	0.0	0.0
77.5°	96.8	58.9	19.6	14.0	14.0	9.8	4.2	1.4	1.4	0.0	0.0
80°	88.4	32.3	12.6	8.4	7.0	5.6	2.8	1.4	0.0	0.0	0.0
82.5°	88.4	23.8	7.0	5.6	4.2	2.8	1.4	0.0	0.0	0.0	0.0
85°	61.7	12.6	4.2	4.2	2.8	1.4	0.0	0.0	0.0	0.0	0.0
87.5°	9.8	4.2	2.8	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)