

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: P484744

Luminaire Tested: **IFLD-S-SA2C-735-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484744
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-735-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (32) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

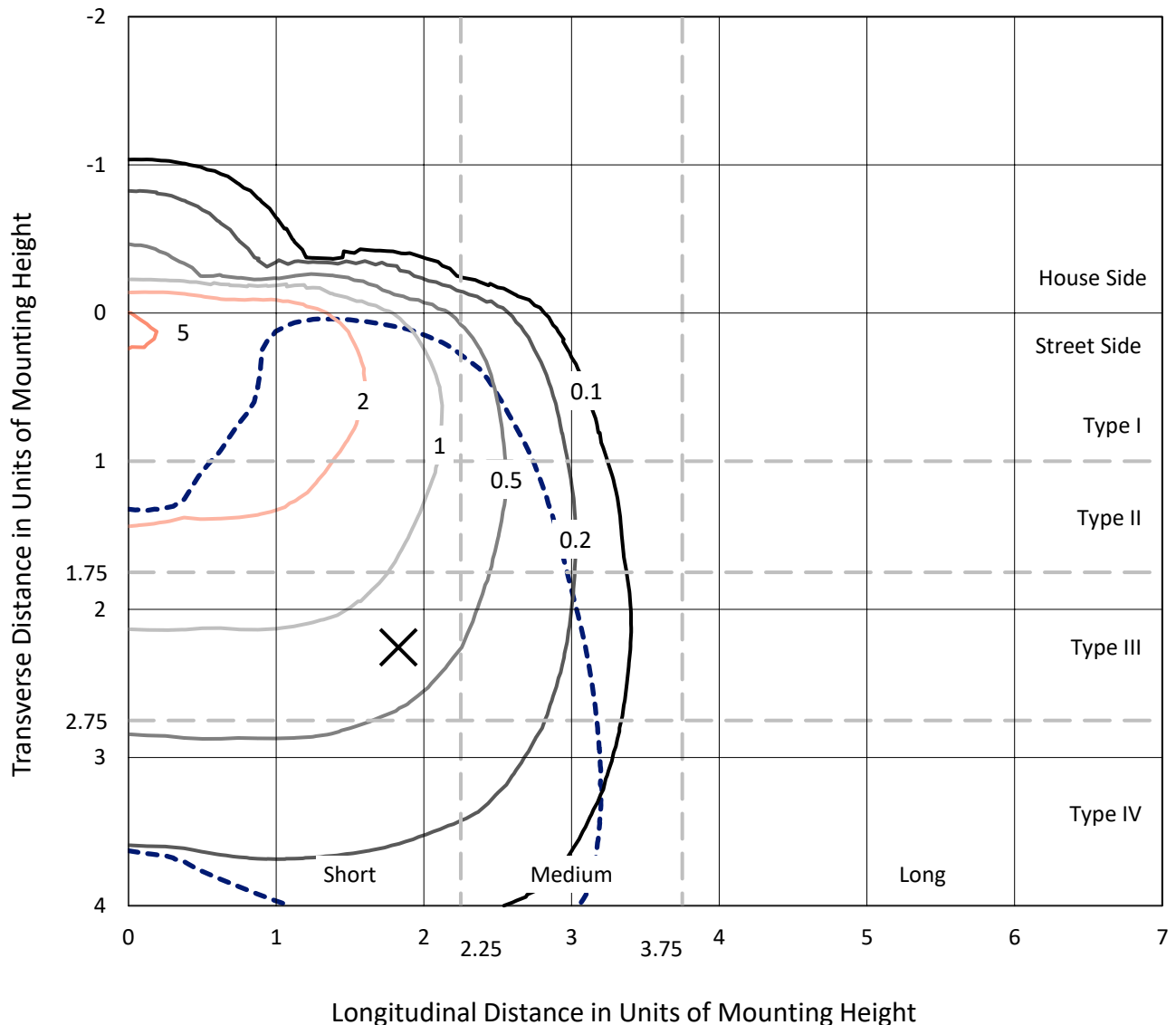
Lumens per Lamp: N/A
Luminaire Lumens: 11581.1 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

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Iso-Footcandle Lines of Horizontal Illumination

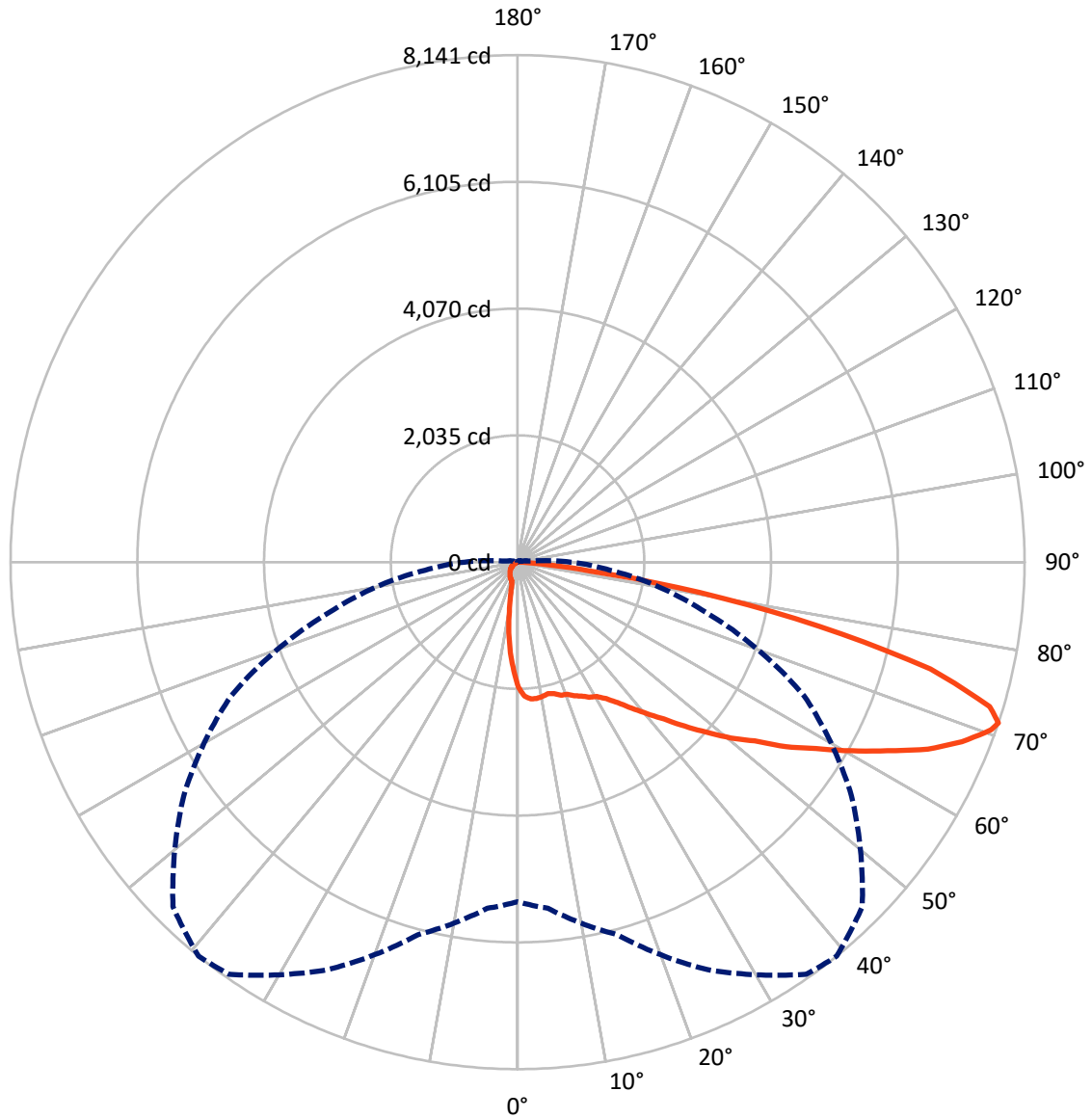
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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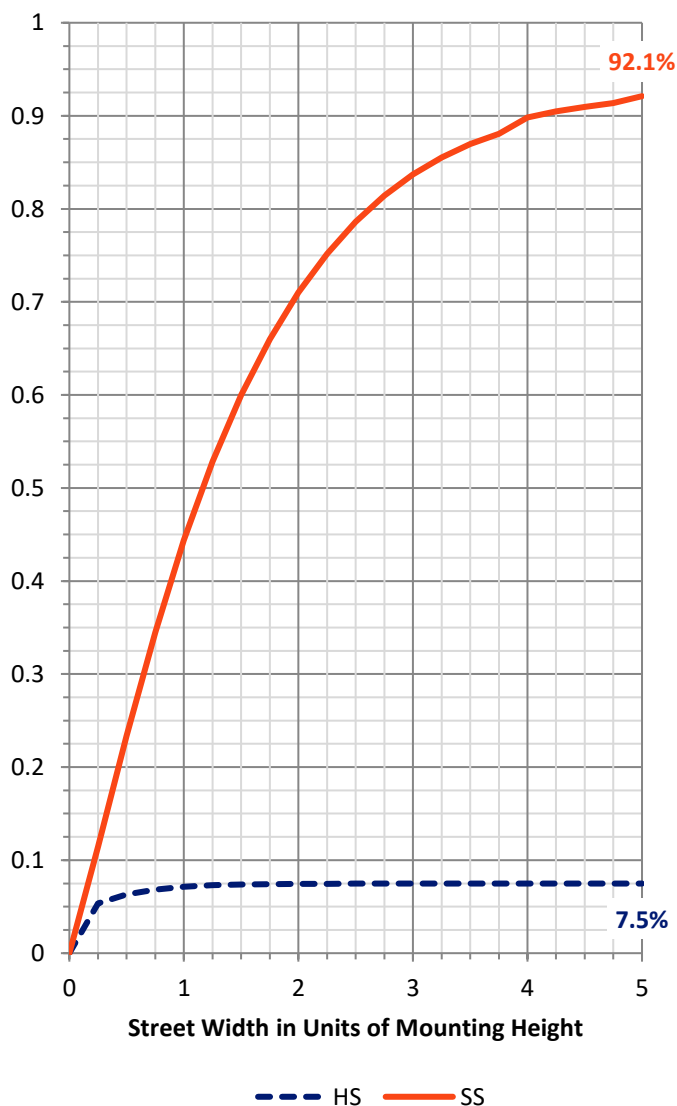
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	871.9	0.0	871.9
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	10709.2	0.0	10709.2
	% Fixture	92.5	0.0	92.5
Total	Lumens	11581.1	0.0	11581.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.5	1.5
10°-20°	414.8	3.6
20°-30°	665.9	5.8
30°-40°	1019.4	8.8
40°-50°	1636.2	14.1
50°-60°	2403.4	20.8
60°-70°	3027.0	26.1
70°-80°	2020.1	17.4
80°-90°	225.8	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°	11581.1	100.0
0°-180°	11581.1	100.0

Coefficient of Utilization



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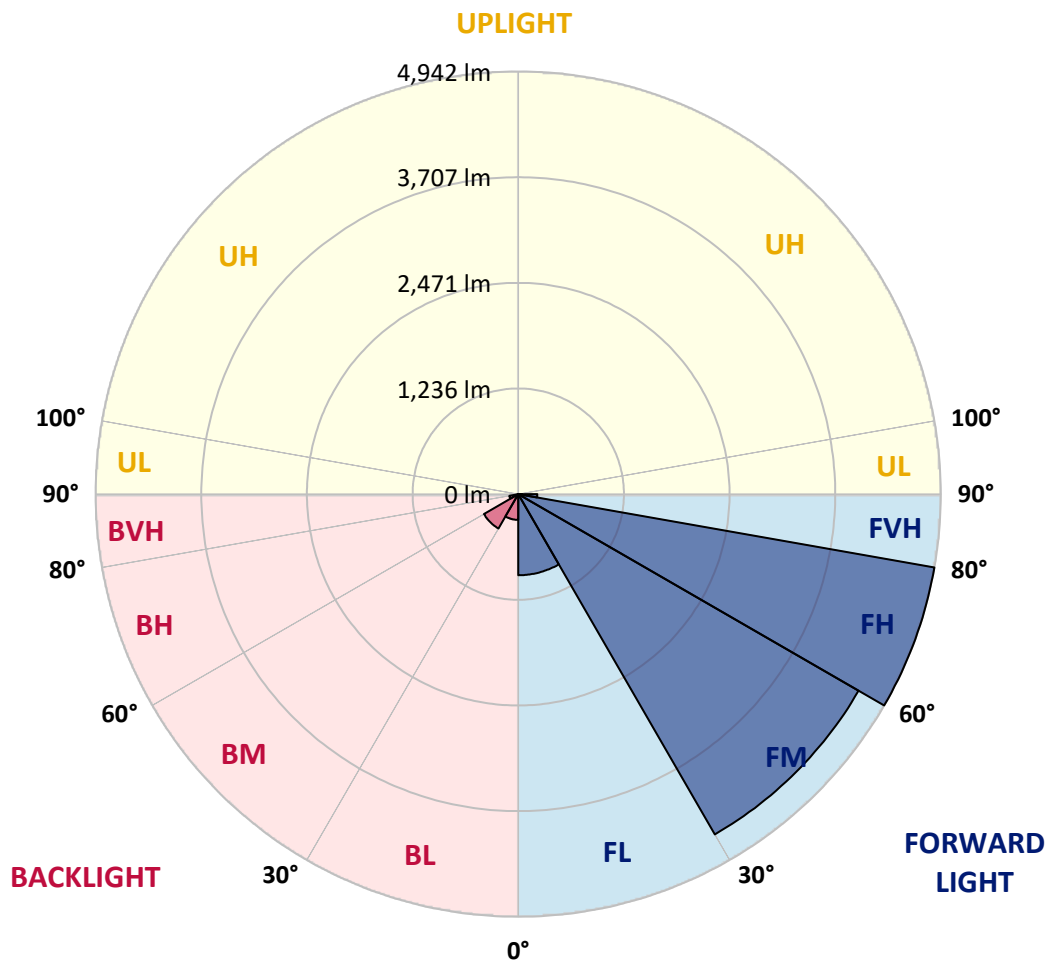
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	948.2	8.2			
FM (30°-60°)	4595.5	39.7			
FH (60°-80°)	4942.1	42.7			G2/5000
FVH (80°-90°)	223.3	1.9			G2/225
BL (0°-30°)	301.0	2.6	B1/500		
BM (30°-60°)	463.4	4.0	B1/1000		
BH (60°-80°)	104.9	0.9	B0/110		G0/110
BVH (80°-90°)	2.5	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2015.8	2015.8	2015.8	2015.8	2015.8	2015.8	2015.8	2015.8	2015.8	2015.8	2015.8
2.5°	2172.2	2193.5	2172.2	2163.1	2154.0	2155.5	2131.2	2135.8	2106.9	2068.9	2038.5
5°	2240.6	2269.4	2246.7	2236.0	2234.5	2205.6	2193.5	2164.6	2129.7	2070.4	2034.0
7.5°	2234.5	2228.4	2239.1	2229.9	2210.2	2210.2	2196.5	2155.5	2120.6	2053.7	1991.5
10°	2188.9	2207.2	2198.0	2187.4	2192.0	2193.5	2167.7	2138.8	2128.2	2061.3	1959.6
12.5°	2184.4	2154.0	2187.4	2188.9	2169.2	2167.7	2164.6	2157.0	2123.6	2062.8	1967.2
15°	2169.2	2157.0	2190.4	2192.0	2196.5	2192.0	2196.5	2190.4	2157.0	2122.1	2000.6
17.5°	2181.3	2167.7	2214.8	2237.5	2226.9	2248.2	2240.6	2213.2	2184.4	2143.4	2032.5
20°	2184.4	2204.1	2255.8	2264.9	2298.3	2263.4	2261.8	2233.0	2214.8	2170.7	2052.2
22.5°	2240.6	2249.7	2313.5	2333.2	2334.8	2330.2	2292.2	2258.8	2251.2	2196.5	2056.8
25°	2325.6	2357.5	2386.4	2398.6	2403.1	2381.8	2342.4	2299.8	2281.6	2246.7	2103.9
27.5°	2476.0	2456.3	2482.1	2500.3	2448.7	2456.3	2406.2	2369.7	2343.9	2313.5	2158.5
30°	2609.7	2591.5	2593.0	2590.0	2545.9	2504.9	2491.2	2427.4	2395.5	2407.7	2243.6
32.5°	2729.7	2690.2	2723.6	2708.4	2626.4	2614.3	2603.6	2523.1	2529.2	2585.4	2371.2
35°	2840.6	2826.9	2854.3	2826.9	2772.2	2769.2	2758.6	2688.7	2722.1	2802.6	2590.0
37.5°	2942.4	2946.9	2980.3	2966.7	2971.2	2974.3	2968.2	2893.8	2989.5	3170.2	2845.2
40°	3036.6	3030.5	3112.5	3155.0	3164.2	3197.6	3197.6	3179.3	3326.7	3530.2	3199.1
42.5°	3136.8	3152.0	3258.3	3329.7	3416.3	3445.2	3484.7	3493.8	3721.6	3954.0	3560.6
45°	3300.9	3275.0	3410.2	3578.8	3654.8	3756.6	3817.3	3869.0	4143.9	4462.9	3922.1
47.5°	3509.0	3457.3	3575.8	3820.4	3996.6	4080.1	4189.5	4257.9	4526.7	4856.4	4263.9
50°	3739.9	3686.7	3744.4	4081.6	4286.7	4438.6	4578.4	4665.0	4990.0	5296.9	4513.1
52.5°	4001.1	3952.5	3961.6	4353.6	4655.8	4766.7	4950.5	5079.7	5403.2	5562.7	4601.2
55°	4279.1	4267.0	4238.1	4619.4	4979.4	5228.5	5339.4	5494.4	5827.0	5707.0	4696.9
57.5°	4558.6	4520.6	4561.7	4971.8	5498.9	5647.8	5801.2	5893.9	6062.5	5833.1	4660.4
60°	4821.4	4824.5	4882.2	5354.6	5940.9	6152.1	6290.3	6234.1	6304.0	5887.8	4576.9
62.5°	5043.2	5037.1	5182.9	5784.5	6525.8	6668.6	6771.9	6521.2	6416.4	5940.9	4431.0
65°	5242.2	5310.5	5539.9	6296.4	7075.7	7239.7	7177.4	6793.1	6525.8	5784.5	4020.9
67.5°	5392.6	5494.4	5892.3	6777.9	7580.0	7695.4	7608.8	6999.7	6396.7	5170.8	3275.0
70°	5480.7	5584.0	6144.5	7179.0	7982.5	8066.1	7862.5	6840.2	5643.2	3744.4	2043.1
71°	5453.3	5579.4	6193.1	7221.5	8078.2	8140.5	7824.6	6545.5	5075.1	3135.3	1490.2
72.5°	5205.7	5324.2	5991.1	7191.1	7962.8	7924.8	7528.3	5837.7	3995.1	1999.1	770.2
75°	3824.9	3952.5	5141.9	6220.4	7107.6	6846.3	6092.9	4096.8	2084.1	612.2	224.8
77.5°	1904.9	1926.1	3191.5	4516.1	5213.3	4953.6	4083.2	2284.6	779.3	180.8	112.4
80°	878.0	884.1	1197.0	2339.3	3152.0	2966.7	2287.7	1127.1	352.4	95.7	88.1
82.5°	598.5	607.6	721.5	969.1	1368.7	1154.5	926.6	721.5	202.0	57.7	86.6
85°	109.4	100.3	404.1	513.4	528.6	358.5	320.5	624.3	76.0	33.4	76.0
87.5°	0.0	1.5	56.2	209.6	188.4	83.5	109.4	151.9	7.6	10.6	13.7
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°	2015.8	2015.8	2015.8	2015.8	2015.8	2015.8	2015.8	2015.8	2015.8	2015.8	2015.8
2.5°	2012.7	1996.0	1939.8	1877.5	1821.3	1777.3	1721.1	1695.2	1654.2	1631.4	1629.9
5°	1983.9	1938.3	1841.1	1736.3	1619.3	1522.1	1414.2	1353.5	1283.6	1262.3	1257.8
7.5°	1935.3	1869.9	1727.1	1579.8	1400.6	1228.9	1096.7	955.5	868.9	832.4	818.8
10°	1904.9	1825.9	1631.4	1411.2	1160.5	919.0	733.7	583.3	504.3	466.3	457.2
12.5°	1904.9	1819.8	1554.0	1250.2	917.5	628.9	454.2	367.6	341.8	332.7	332.7
15°	1900.3	1807.7	1479.5	1084.6	679.0	422.3	338.7	320.5	317.5	316.0	314.4
17.5°	1923.1	1786.4	1403.6	906.9	480.0	332.7	311.4	308.4	305.3	305.3	302.3
20°	1939.8	1774.2	1312.4	718.5	358.5	308.4	299.2	294.7	293.2	291.7	294.7
22.5°	1926.1	1756.0	1200.0	537.7	312.9	293.2	287.1	282.5	279.5	279.5	281.0
25°	1952.0	1739.3	1087.6	405.6	293.2	279.5	273.4	270.4	268.9	267.4	264.3
27.5°	1986.9	1746.9	954.0	326.6	276.5	265.8	259.8	256.7	255.2	252.2	255.2
30°	2029.4	1745.4	806.6	285.6	261.3	250.6	244.6	243.0	240.0	238.5	240.0
32.5°	2102.3	1784.9	654.7	264.3	244.6	235.5	229.4	227.9	226.3	224.8	223.3
35°	2258.8	1833.5	511.9	247.6	229.4	218.7	214.2	211.1	209.6	208.1	206.6
37.5°	2451.7	1941.3	390.4	232.4	214.2	203.6	199.0	197.5	191.4	189.9	188.4
40°	2693.2	2056.8	300.8	215.7	200.5	189.9	185.3	180.8	173.2	170.1	167.1
42.5°	2994.0	2169.2	247.6	200.5	185.3	177.7	170.1	162.5	156.5	150.4	147.3
45°	3294.8	2299.8	217.2	186.8	173.2	164.1	158.0	147.3	136.7	127.6	126.1
47.5°	3545.4	2346.9	199.0	171.7	161.0	153.4	144.3	130.6	115.4	106.3	104.8
50°	3732.3	2319.6	180.8	156.5	147.3	139.8	127.6	110.9	95.7	86.6	83.5
52.5°	3768.7	2199.6	164.1	144.3	133.7	124.6	110.9	92.7	76.0	66.8	65.3
55°	3742.9	2000.6	150.4	133.7	121.5	107.9	92.7	74.4	59.2	50.1	48.6
57.5°	3689.7	1765.1	135.2	120.0	106.3	92.7	76.0	60.8	44.1	34.9	34.9
60°	3509.0	1444.6	120.0	104.8	91.1	79.0	62.3	44.1	30.4	22.8	21.3
62.5°	3256.8	1110.4	104.8	89.6	79.0	65.3	48.6	31.9	18.2	12.2	12.2
65°	2796.5	777.7	88.1	74.4	65.3	53.2	36.5	19.7	10.6	4.6	4.6
67.5°	2125.1	481.5	72.9	62.3	56.2	42.5	25.8	12.2	4.6	1.5	0.0
70°	1219.8	250.6	57.7	50.1	44.1	31.9	18.2	6.1	3.0	0.0	0.0
71°	852.2	185.3	51.6	44.1	39.5	28.9	15.2	4.6	1.5	0.0	0.0
72.5°	426.8	123.0	44.1	36.5	31.9	22.8	12.2	4.6	1.5	0.0	0.0
75°	151.9	79.0	30.4	24.3	22.8	16.7	7.6	3.0	1.5	0.0	0.0
77.5°	104.8	63.8	21.3	15.2	15.2	10.6	4.6	1.5	1.5	0.0	0.0
80°	95.7	34.9	13.7	9.1	7.6	6.1	3.0	1.5	0.0	0.0	0.0
82.5°	95.7	25.8	7.6	6.1	4.6	3.0	1.5	0.0	0.0	0.0	0.0
85°	66.8	13.7	4.6	4.6	3.0	1.5	0.0	0.0	0.0	0.0	0.0
87.5°	10.6	4.6	3.0	1.5	1.5	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)