

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: P481195

Luminaire Tested: **IFLD-S-SA2C-730-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481195
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-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

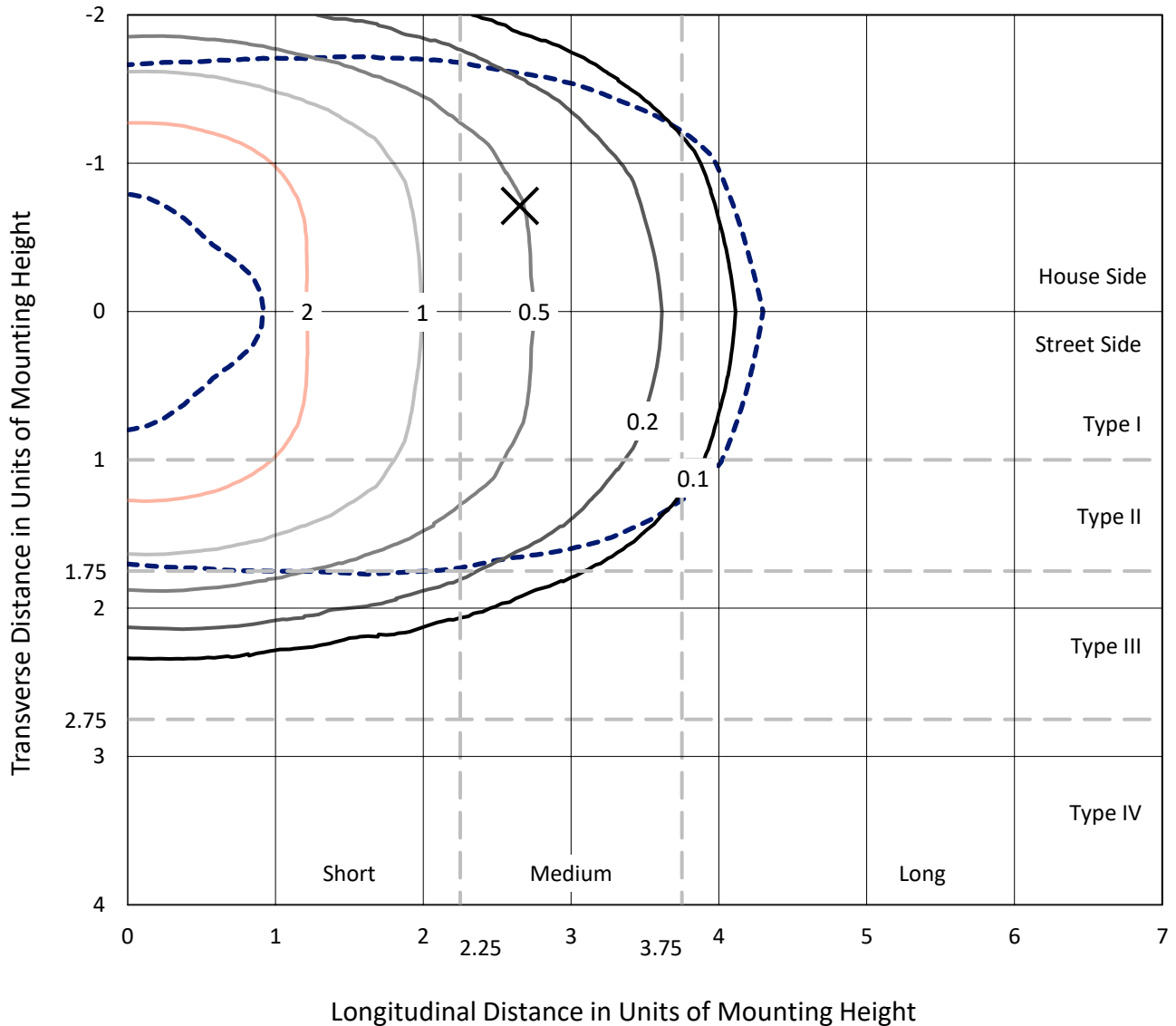
Lumens per Lamp: N/A
Luminaire Lumens: 13331.4 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

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

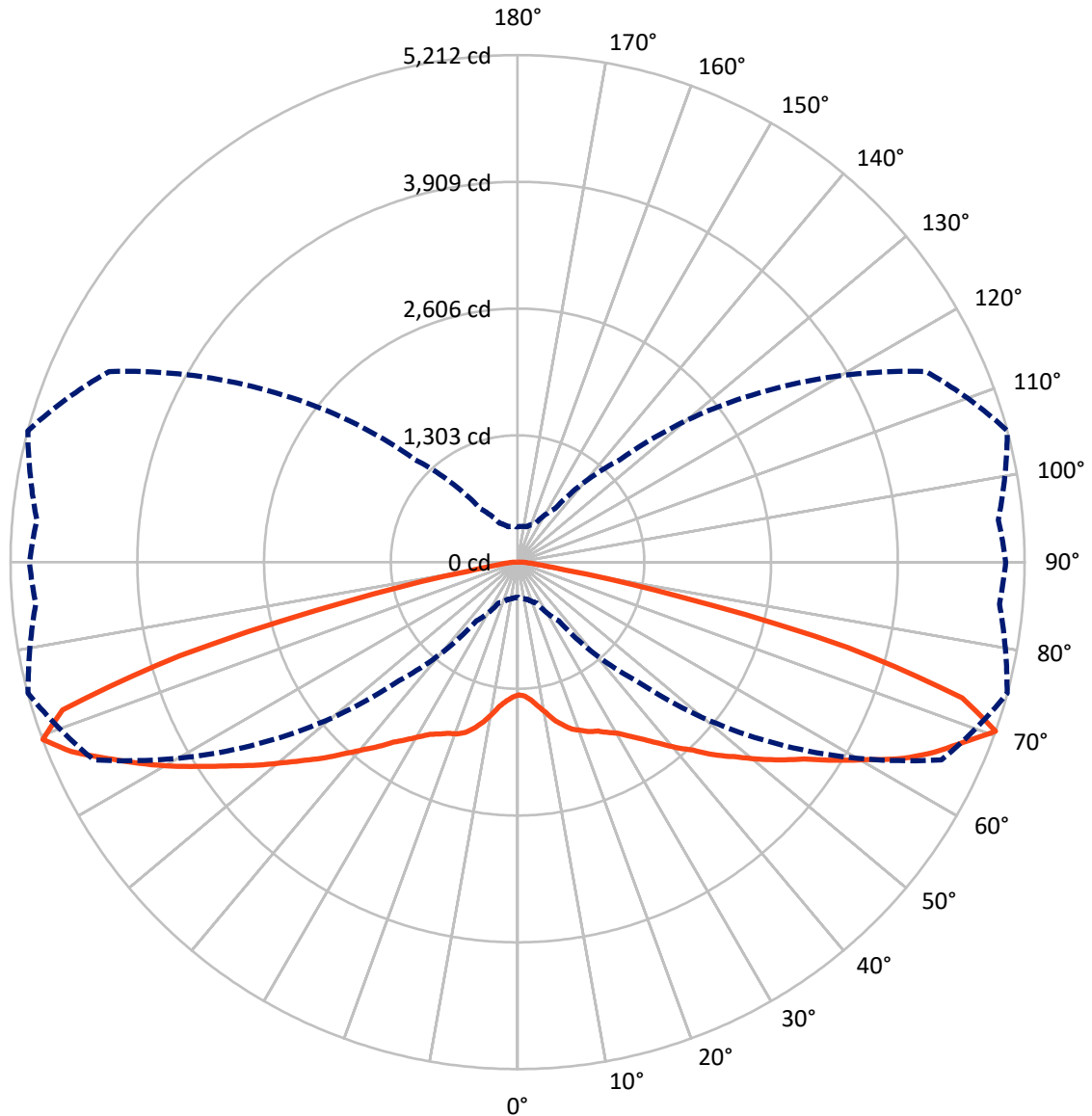
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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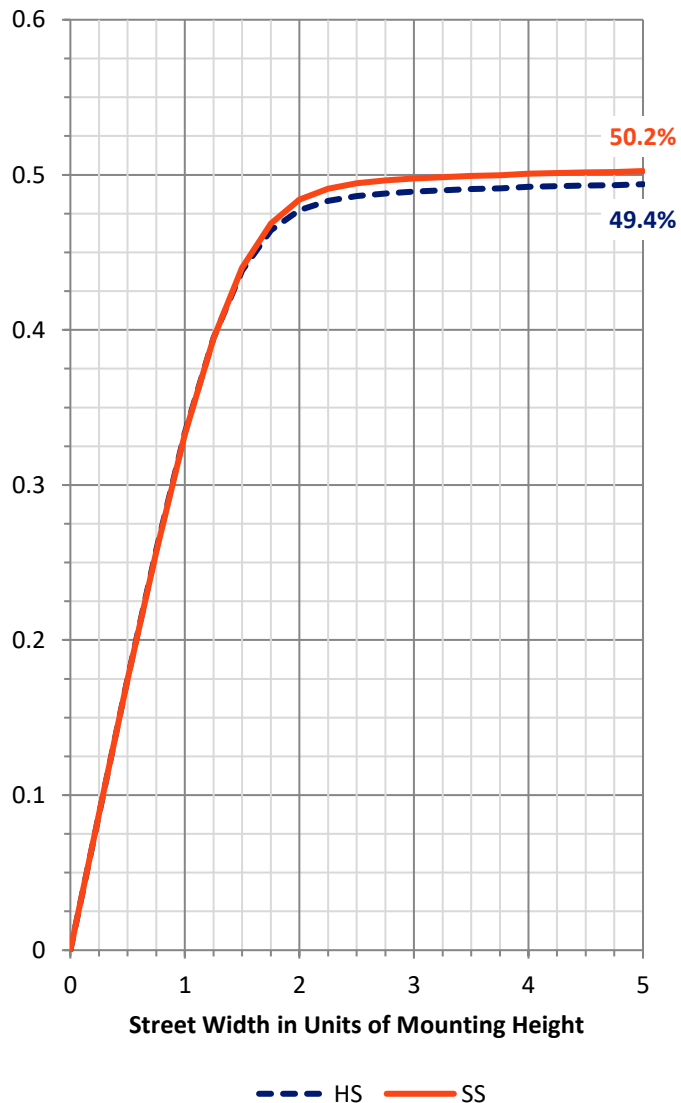
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6618.3	0.0	6618.3
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	6713.1	0.0	6713.1
	% Fixture	50.4	0.0	50.4
Total	Lumens	13331.4	0.0	13331.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.9	1.0
10°-20°	462.6	3.5
20°-30°	895.8	6.7
30°-40°	1515.2	11.4
40°-50°	2417.2	18.1
50°-60°	3308.7	24.8
60°-70°	3118.6	23.4
70°-80°	1373.9	10.3
80°-90°	103.4	0.8
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°	13331.4	100.0
0°-180°	13331.4	100.0

Coefficient of Utilization



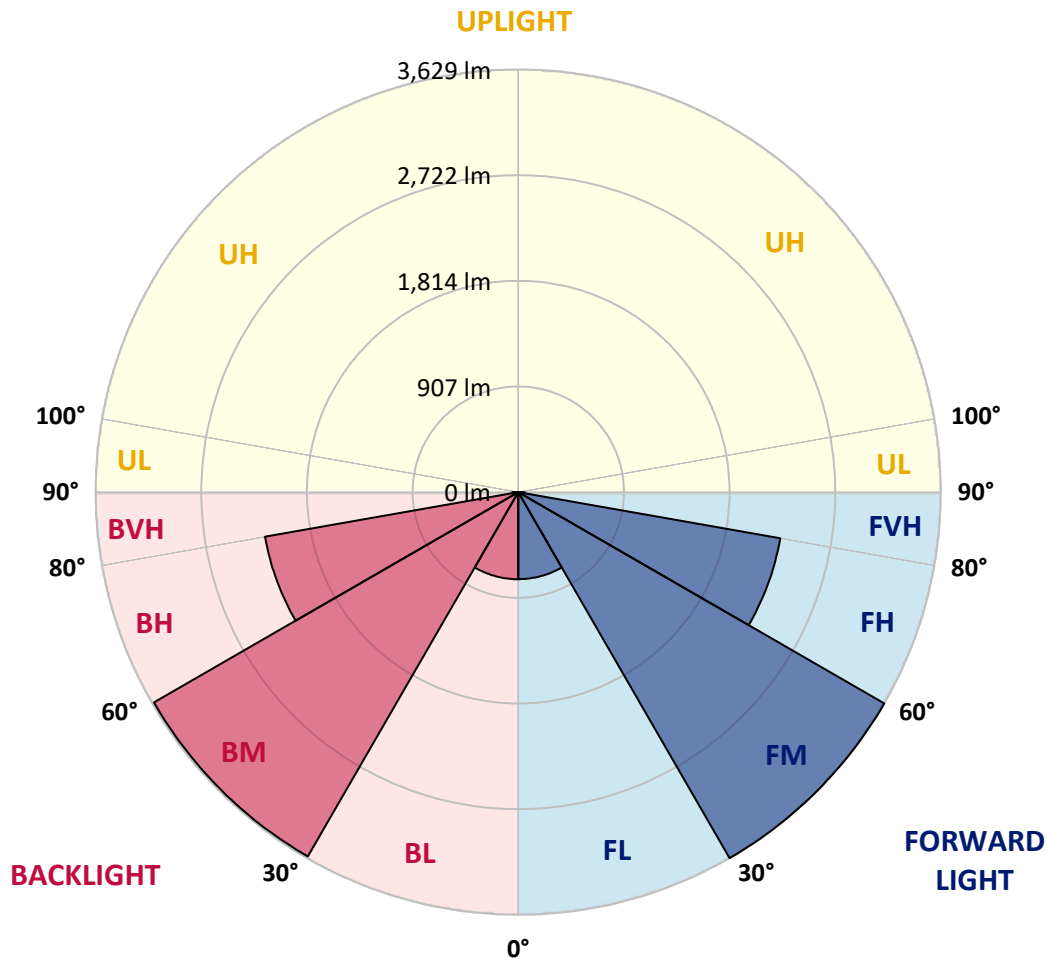
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	746.8	5.6			
FM (30°-60°)	3628.7	27.2			
FH (60°-80°)	2284.9	17.1			G2/5000
FVH (80°-90°)	52.8	0.4			G1/100
BL (0°-30°)	747.6	5.6	B2/1000		
BM (30°-60°)	3612.5	27.1	B3/5000		
BH (60°-80°)	2207.6	16.6	B3/2500		G3/2500
BVH (80°-90°)	50.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1365.1	1365.1	1365.1	1365.1	1365.1	1365.1	1365.1	1365.1	1365.1	1365.1	1365.1
2.5°	1356.5	1356.5	1355.1	1362.2	1369.4	1372.3	1378.1	1379.5	1388.1	1380.9	1395.3
5°	1352.2	1350.7	1362.2	1379.5	1379.5	1398.2	1409.7	1425.5	1429.8	1438.4	1441.3
7.5°	1382.4	1379.5	1373.7	1392.4	1408.2	1437.0	1452.8	1480.1	1490.1	1501.6	1514.6
10°	1401.0	1401.0	1395.3	1428.3	1442.7	1481.5	1516.0	1543.3	1582.1	1595.0	1596.5
12.5°	1403.9	1408.2	1425.5	1468.6	1508.8	1559.1	1585.0	1636.7	1675.5	1699.9	1708.6
15°	1447.0	1438.4	1457.1	1516.0	1574.9	1619.5	1665.4	1702.8	1758.8	1790.5	1810.6
17.5°	1485.8	1477.2	1511.7	1582.1	1642.5	1711.4	1751.7	1791.9	1832.1	1860.9	1862.3
20°	1547.6	1554.8	1585.0	1661.1	1740.2	1800.5	1846.5	1853.7	1873.8	1915.5	1908.3
22.5°	1623.8	1618.0	1681.3	1764.6	1850.8	1901.1	1927.0	1908.3	1898.2	1942.8	1952.8
25°	1699.9	1717.2	1774.7	1852.2	1955.7	2023.2	2030.4	1978.7	1941.3	1957.1	1952.8
27.5°	1816.3	1819.2	1879.6	1971.5	2076.4	2135.3	2131.0	2057.7	1985.9	1987.3	1990.2
30°	1965.8	1951.4	2017.5	2100.8	2204.3	2257.5	2264.7	2159.8	2063.5	2034.7	2041.9
32.5°	2109.5	2126.7	2184.2	2279.0	2355.2	2385.4	2369.6	2276.2	2151.1	2112.3	2116.7
35°	2293.4	2290.5	2369.6	2450.0	2507.5	2513.3	2500.3	2363.8	2246.0	2195.7	2175.6
37.5°	2490.3	2516.1	2567.9	2634.0	2694.3	2697.2	2626.8	2517.6	2372.4	2289.1	2313.5
40°	2710.1	2738.9	2776.2	2872.5	2917.0	2871.1	2799.2	2651.2	2500.3	2427.0	2438.5
42.5°	2904.1	2917.0	2993.2	3106.7	3128.3	3108.2	3001.8	2822.2	2646.9	2566.4	2572.2
45°	3082.3	3099.5	3198.7	3300.7	3351.0	3316.5	3192.9	3021.9	2817.9	2748.9	2721.6
47.5°	3246.1	3280.6	3376.9	3481.8	3559.4	3562.2	3409.9	3203.0	2987.5	2896.9	2895.5
50°	3356.8	3407.0	3501.9	3621.2	3734.7	3779.2	3626.9	3404.2	3172.8	3076.5	3066.5
52.5°	3417.1	3468.8	3563.7	3749.0	3875.5	3944.5	3872.6	3592.4	3389.8	3289.2	3273.4
55°	3343.8	3378.3	3533.5	3793.6	3989.0	4102.5	4055.1	3852.5	3605.3	3523.4	3537.8
57.5°	3032.0	3103.8	3295.0	3619.7	3986.1	4264.9	4260.6	4098.2	3853.9	3776.3	3779.2
60°	2496.0	2556.4	2792.0	3246.1	3825.2	4331.0	4483.3	4336.8	4132.7	4042.2	4039.3
62.5°	1761.7	1837.9	2110.9	2606.7	3351.0	4239.1	4739.1	4637.1	4405.7	4339.6	4364.1
65°	985.8	1031.7	1284.6	1733.0	2553.5	3733.2	4785.1	4948.9	4683.1	4582.5	4586.8
67.5°	527.4	544.6	662.4	909.6	1562.0	2878.2	4321.0	5128.5	4983.4	4809.5	4782.2
70°	362.1	367.9	398.0	465.6	738.6	1721.5	3259.0	4808.1	5209.0	4971.9	5017.9
72.5°	306.1	303.2	310.4	317.6	386.5	770.2	1912.6	3700.2	4917.3	4828.2	4811.0
75°	265.8	264.4	267.3	260.1	268.7	339.1	846.4	2306.3	3599.6	4017.8	4082.4
77.5°	219.9	221.3	222.7	215.5	212.7	224.2	340.6	1013.1	1771.8	1955.7	2109.5
80°	166.7	169.6	181.1	173.9	162.4	163.8	201.2	339.1	508.7	461.3	475.6
82.5°	113.5	115.0	139.4	130.8	122.1	110.6	129.3	175.3	198.3	150.9	132.2
85°	80.5	79.0	90.5	83.3	77.6	56.0	77.6	99.2	119.3	74.7	67.5
87.5°	18.7	18.7	37.4	30.2	28.7	23.0	30.2	38.8	51.7	33.1	30.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1365.1	1365.1	1365.1	1365.1	1365.1	1365.1	1365.1	1365.1	1365.1	1365.1
2.5°	1391.0	1378.1	1378.1	1375.2	1363.7	1360.8	1350.7	1353.6	1346.4	1339.3
5°	1439.8	1422.6	1422.6	1398.2	1375.2	1372.3	1360.8	1360.8	1349.3	1352.2
7.5°	1507.4	1491.6	1465.7	1444.2	1412.5	1399.6	1378.1	1375.2	1372.3	1366.6
10°	1587.8	1567.7	1541.9	1497.3	1471.5	1447.0	1425.5	1395.3	1388.1	1389.5
12.5°	1697.1	1665.4	1609.4	1570.6	1537.6	1505.9	1474.3	1429.8	1419.7	1424.0
15°	1774.7	1734.4	1678.4	1664.0	1619.5	1580.7	1528.9	1478.6	1461.4	1457.1
17.5°	1837.9	1804.8	1771.8	1750.2	1714.3	1666.9	1595.0	1537.6	1498.8	1494.4
20°	1889.6	1846.5	1839.3	1852.2	1807.7	1776.1	1688.4	1618.0	1566.3	1544.7
22.5°	1921.2	1893.9	1914.0	1925.5	1922.7	1869.5	1779.0	1697.1	1632.4	1612.3
25°	1955.7	1924.1	1995.9	2034.7	2044.8	1957.1	1886.7	1779.0	1715.7	1702.8
27.5°	1973.0	1984.5	2067.8	2149.7	2142.5	2075.0	1980.1	1883.9	1833.6	1810.6
30°	2023.2	2041.9	2168.4	2260.3	2261.8	2195.7	2123.8	2014.6	1958.6	1948.5
32.5°	2113.8	2136.8	2271.8	2369.6	2386.8	2336.5	2264.7	2197.1	2139.6	2116.7
35°	2182.8	2241.7	2394.0	2483.1	2529.1	2498.9	2458.6	2388.2	2327.9	2307.8
37.5°	2281.9	2363.8	2510.4	2631.1	2682.8	2679.9	2649.8	2573.6	2523.3	2506.1
40°	2424.2	2506.1	2639.7	2799.2	2895.5	2891.2	2873.9	2815.0	2740.3	2731.7
42.5°	2575.0	2642.6	2816.5	2998.9	3136.9	3122.5	3076.5	3007.6	2955.8	2944.3
45°	2721.6	2826.5	2987.5	3221.7	3325.1	3361.1	3306.5	3188.6	3129.7	3122.5
47.5°	2905.5	2988.9	3190.1	3399.9	3553.6	3559.4	3466.0	3356.8	3249.0	3272.0
50°	3069.4	3180.0	3384.1	3614.0	3797.9	3731.8	3612.5	3476.0	3398.4	3368.2
52.5°	3244.7	3379.7	3616.8	3851.1	3953.1	3887.0	3693.0	3540.7	3422.9	3409.9
55°	3500.4	3570.9	3881.2	4060.9	4093.9	3954.5	3668.6	3453.0	3300.7	3263.4
57.5°	3760.5	3842.4	4114.0	4269.2	4234.7	3917.2	3510.5	3177.1	2977.4	2924.2
60°	4023.5	4124.1	4352.6	4494.8	4316.6	3660.0	3063.6	2634.0	2401.2	2353.8
62.5°	4316.6	4447.4	4651.5	4701.8	4073.8	3151.3	2431.3	1901.1	1665.4	1586.4
65°	4576.7	4710.4	4961.8	4658.6	3557.9	2350.9	1572.0	1086.3	912.5	849.2
67.5°	4790.8	4941.7	5065.3	4122.7	2605.2	1376.6	819.1	571.9	507.2	484.3
70°	4960.4	5211.9	4634.2	3030.6	1488.7	671.1	442.6	376.5	367.9	362.1
72.5°	4812.4	4779.3	3460.2	1748.8	652.4	369.3	320.4	310.4	308.9	310.4
75°	3935.9	3510.5	2069.2	760.2	327.6	267.3	265.8	261.5	268.7	268.7
77.5°	1909.7	1669.8	865.1	326.2	215.5	209.8	217.0	217.0	217.0	217.0
80°	442.6	490.0	308.9	198.3	156.6	156.6	172.4	173.9	166.7	163.8
82.5°	150.9	201.2	169.6	125.0	103.5	116.4	130.8	133.6	110.6	112.1
85°	74.7	117.8	92.0	71.8	53.2	71.8	84.8	89.1	76.2	73.3
87.5°	34.5	51.7	34.5	24.4	18.7	25.9	24.4	20.1	11.5	11.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)