

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: P479481

Luminaire Tested: **IFLD-S-SA2E-830-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479481
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-830-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

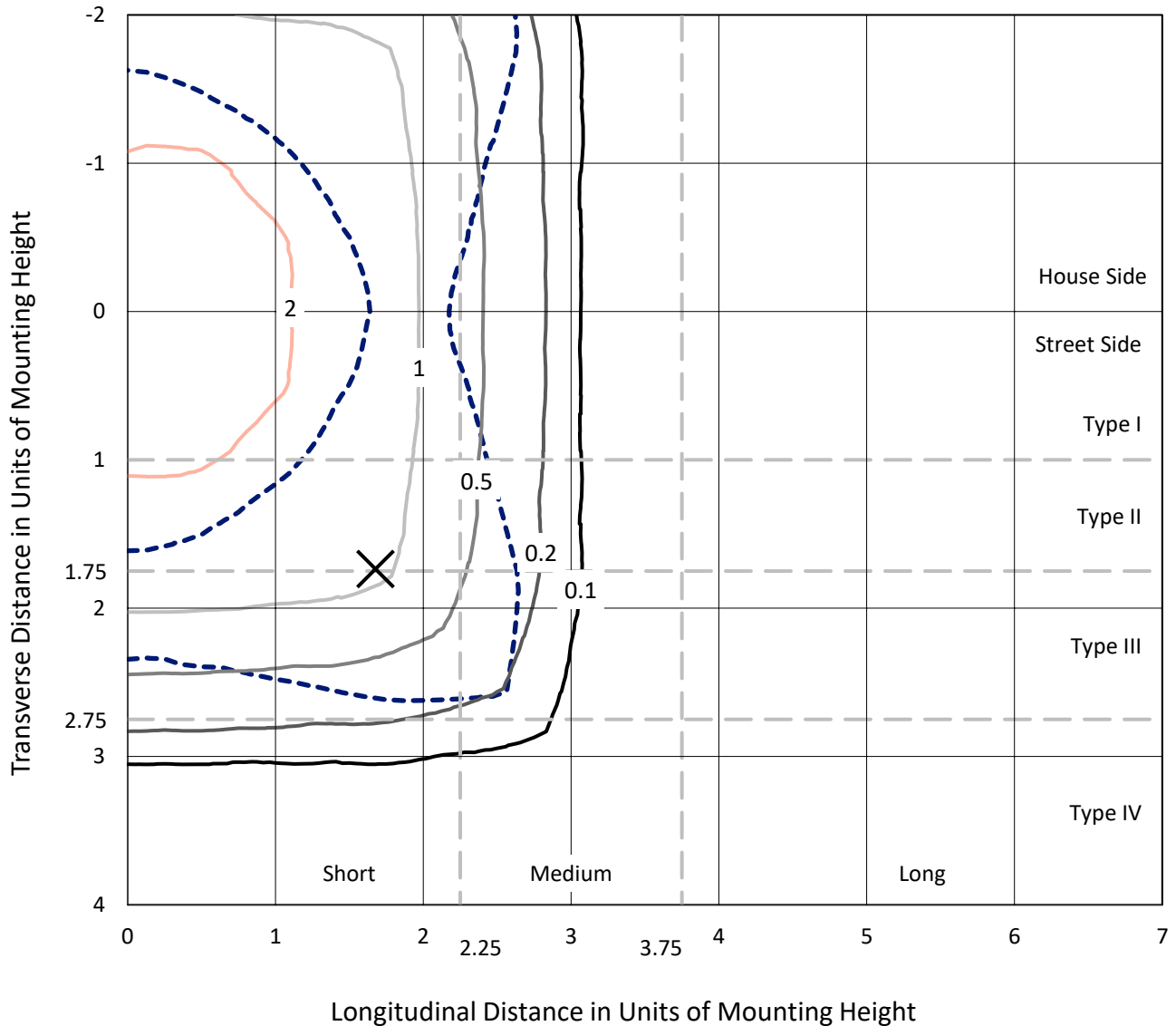
Lumens per Lamp: N/A
Luminaire Lumens: 14517.1 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 156.2
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

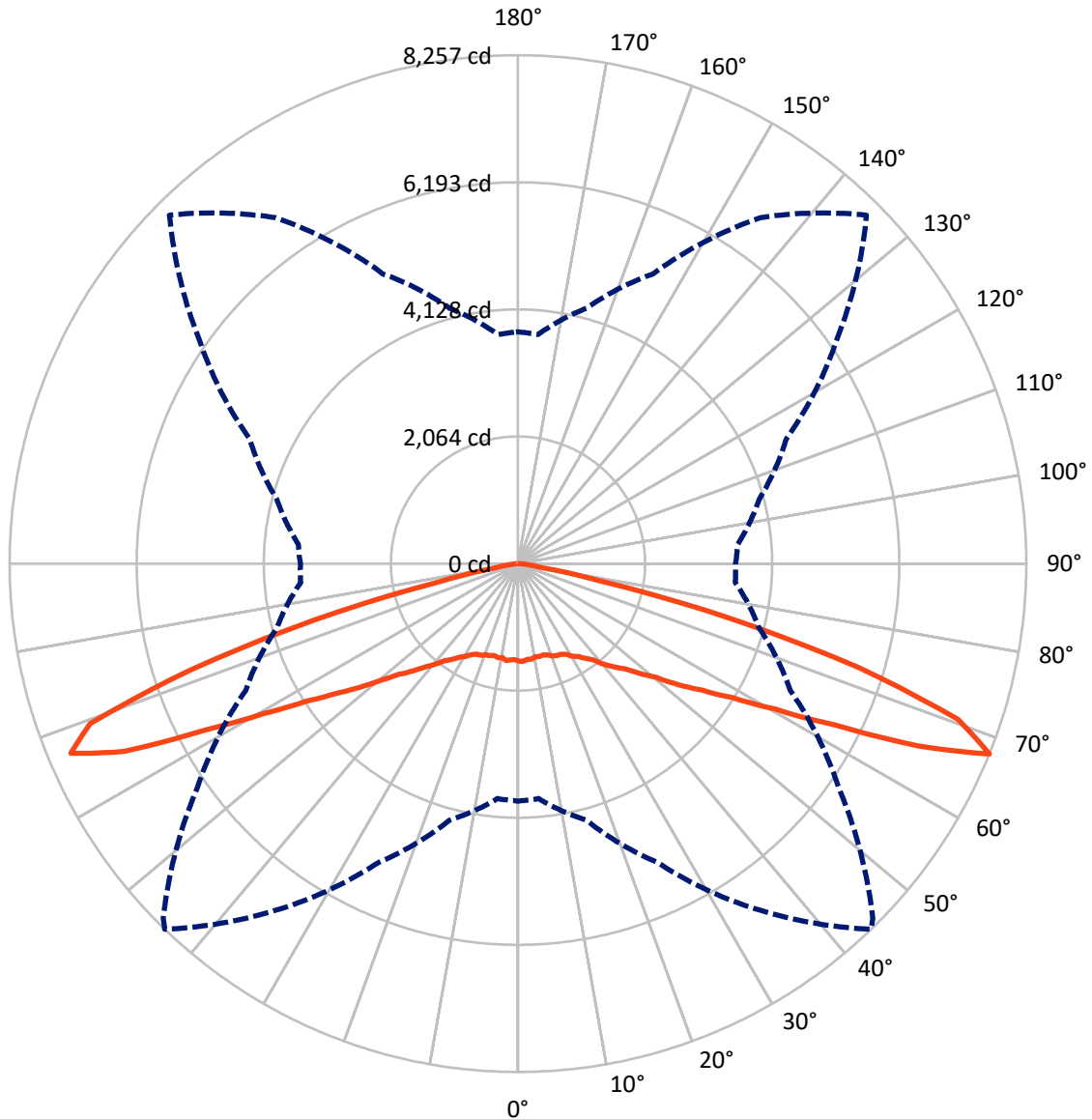
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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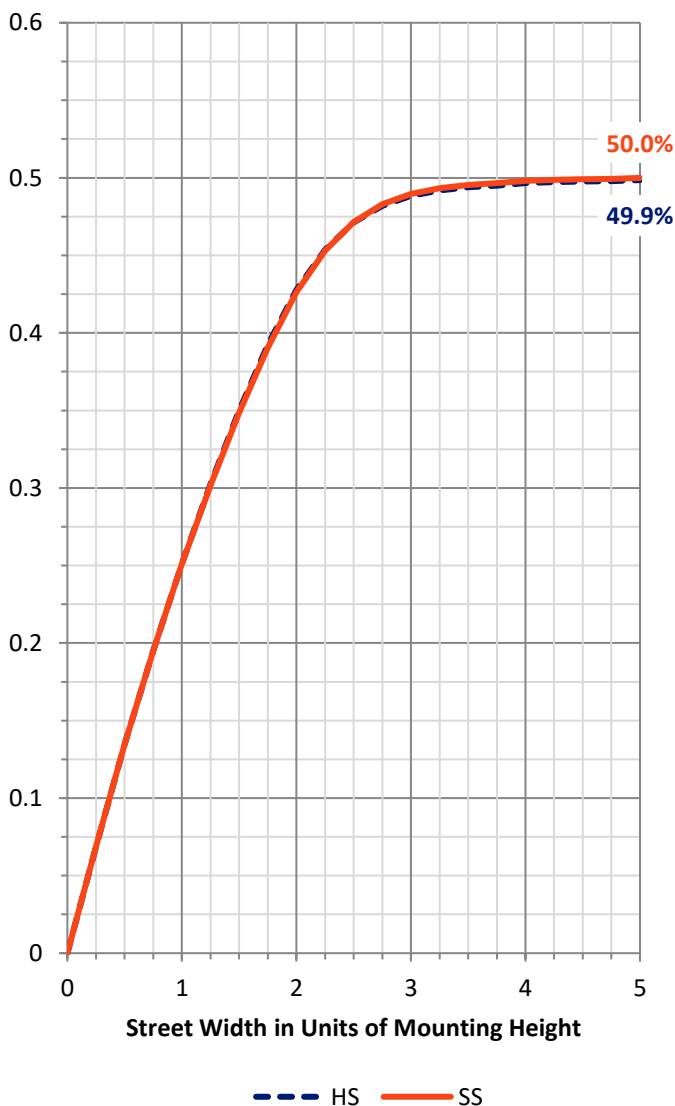
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7240.0	0.0	7240.0
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	7277.1	0.0	7277.1
	% Fixture	50.1	0.0	50.1
Total	Lumens	14517.1	0.0	14517.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.1	1.0
10°-20°	438.4	3.0
20°-30°	745.5	5.1
30°-40°	1182.0	8.1
40°-50°	1927.4	13.3
50°-60°	3291.8	22.7
60°-70°	5006.7	34.5
70°-80°	1687.6	11.6
80°-90°	87.6	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°	14517.1	100.0
0°-180°	14517.1	100.0

Coefficient of Utilization



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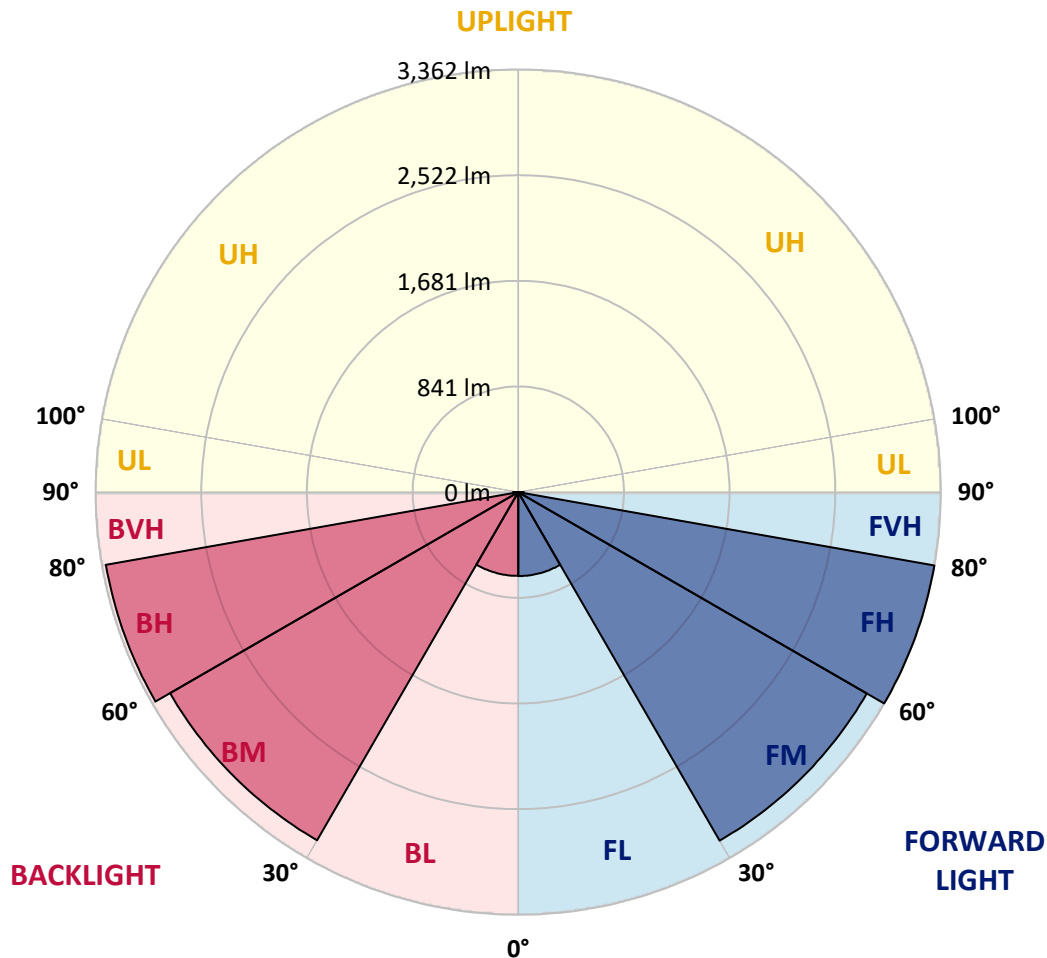
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	667.7	4.6			
FM (30°-60°)	3202.3	22.1			
FH (60°-80°)	3362.3	23.2			G2/5000
FVH (80°-90°)	44.8	0.3			G1/100
BL (0°-30°)	666.3	4.6	B2/1000		
BM (30°-60°)	3198.9	22.0	B3/5000		
BH (60°-80°)	3332.0	23.0	B4/5000		G2/5000
BVH (80°-90°)	42.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1585.7	1585.7	1585.7	1585.7	1585.7	1585.7	1585.7	1585.7	1585.7	1585.7	1585.7
2.5°	1549.3	1567.5	1580.8	1579.1	1584.1	1589.1	1582.4	1592.4	1585.7	1597.3	1604.0
5°	1579.1	1574.1	1575.8	1565.9	1589.1	1562.5	1562.5	1575.8	1592.4	1572.5	1584.1
7.5°	1560.9	1557.6	1549.3	1564.2	1569.2	1569.2	1582.4	1557.6	1585.7	1592.4	1594.0
10°	1541.0	1522.8	1547.6	1562.5	1565.9	1539.3	1550.9	1557.6	1549.3	1557.6	1562.5
12.5°	1524.4	1534.4	1534.4	1534.4	1529.4	1547.6	1559.2	1557.6	1541.0	1555.9	1529.4
15°	1522.8	1517.8	1532.7	1546.0	1537.7	1541.0	1546.0	1560.9	1529.4	1536.0	1536.0
17.5°	1521.1	1527.7	1532.7	1531.1	1559.2	1559.2	1554.3	1544.3	1569.2	1555.9	1537.7
20°	1527.7	1522.8	1536.0	1541.0	1560.9	1600.7	1585.7	1577.5	1564.2	1547.6	1547.6
22.5°	1536.0	1532.7	1550.9	1572.5	1610.6	1620.5	1618.9	1608.9	1585.7	1565.9	1562.5
25°	1565.9	1536.0	1555.9	1597.3	1610.6	1630.5	1643.7	1630.5	1599.0	1604.0	1574.1
27.5°	1610.6	1605.6	1632.1	1660.3	1648.7	1666.9	1655.3	1665.3	1666.9	1642.1	1612.3
30°	1663.6	1648.7	1665.3	1720.0	1724.9	1744.8	1724.9	1698.4	1706.7	1685.2	1670.2
32.5°	1739.8	1734.9	1766.4	1802.8	1809.4	1799.5	1789.5	1804.5	1769.7	1753.1	1726.6
35°	1789.5	1811.1	1849.2	1877.4	1898.9	1889.0	1893.9	1879.0	1887.3	1852.5	1840.9
37.5°	1937.0	1928.7	1937.0	1985.1	1990.0	1985.1	1990.0	2006.6	1995.0	1965.2	1935.4
40°	2076.2	2063.0	2082.8	2137.5	2134.2	2150.8	2117.6	2135.9	2135.9	2079.5	2067.9
42.5°	2180.6	2225.3	2248.5	2293.3	2309.8	2294.9	2288.3	2291.6	2328.1	2261.8	2236.9
45°	2396.0	2394.4	2463.9	2488.8	2442.4	2439.1	2425.8	2465.6	2490.5	2452.3	2442.4
47.5°	2629.6	2641.2	2681.0	2691.0	2719.1	2667.8	2667.8	2672.7	2760.5	2671.1	2624.7
50°	2840.1	2855.0	2934.5	3012.4	2959.4	2904.7	2926.2	2952.8	3000.8	2916.3	2876.5
52.5°	3095.3	3176.5	3229.5	3270.9	3309.0	3270.9	3221.2	3251.0	3345.5	3232.8	3183.1
55°	3463.1	3527.7	3577.4	3653.7	3685.1	3633.8	3628.8	3625.5	3678.5	3559.2	3491.3
57.5°	3874.0	3847.5	3927.1	4044.7	4159.0	4109.3	4094.4	4097.7	4111.0	3942.0	3890.6
60°	4384.4	4414.2	4508.7	4611.4	4732.4	4802.0	4704.2	4647.9	4659.5	4429.1	4349.6
62.5°	4676.0	4742.3	4956.1	5309.0	5552.6	5769.6	5784.6	5418.4	5173.1	4725.7	4387.7
65°	4535.2	4525.2	4927.9	5580.7	6503.7	7135.0	7040.6	6152.4	5295.7	4584.9	4130.9
67.5°	3857.5	3831.0	4318.1	5353.7	6878.2	8256.8	8149.1	6359.5	4881.5	4056.3	3542.6
70°	2485.5	2478.9	3007.4	4081.2	6140.8	7580.7	7620.5	5776.3	3973.5	2971.0	2462.3
72.5°	903.1	957.7	1264.3	2193.9	4170.6	5799.5	5824.3	4276.7	2285.0	1373.6	1012.4
75°	333.1	343.0	399.3	712.5	1900.6	3560.9	3653.7	2074.6	811.9	447.4	364.5
77.5°	192.2	193.9	213.8	265.1	563.4	1390.2	1446.6	629.7	314.8	238.6	220.4
80°	130.9	129.2	150.8	172.3	225.4	394.4	419.2	263.5	198.8	165.7	139.2
82.5°	76.2	81.2	111.0	122.6	137.5	174.0	177.3	164.0	149.1	122.6	91.1
85°	46.4	38.1	61.3	67.9	79.5	77.9	77.9	89.5	96.1	86.2	51.4
87.5°	11.6	11.6	14.9	16.6	21.5	16.6	18.2	34.8	46.4	43.1	26.5
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°	1585.7	1585.7	1585.7	1585.7	1585.7	1585.7	1585.7	1585.7	1585.7	1585.7	1585.7
2.5°	1589.1	1584.1	1587.4	1605.6	1594.0	1559.2	1567.5	1585.7	1570.8	1562.5	1560.9
5°	1582.4	1592.4	1580.8	1584.1	1595.7	1567.5	1572.5	1595.7	1585.7	1589.1	1570.8
7.5°	1584.1	1589.1	1579.1	1564.2	1564.2	1587.4	1574.1	1577.5	1562.5	1587.4	1554.3
10°	1574.1	1560.9	1549.3	1557.6	1554.3	1547.6	1542.7	1552.6	1537.7	1559.2	1536.0
12.5°	1544.3	1547.6	1544.3	1541.0	1547.6	1564.2	1537.7	1541.0	1517.8	1521.1	1532.7
15°	1532.7	1542.7	1539.3	1557.6	1565.9	1541.0	1560.9	1541.0	1522.8	1512.8	1531.1
17.5°	1537.7	1552.6	1547.6	1560.9	1546.0	1564.2	1567.5	1559.2	1537.7	1529.4	1537.7
20°	1542.7	1537.7	1544.3	1567.5	1589.1	1570.8	1570.8	1565.9	1546.0	1534.4	1534.4
22.5°	1554.3	1546.0	1555.9	1574.1	1580.8	1608.9	1584.1	1572.5	1539.3	1509.5	1537.7
25°	1577.5	1582.4	1589.1	1582.4	1618.9	1615.6	1612.3	1604.0	1552.6	1554.3	1549.3
27.5°	1622.2	1594.0	1602.3	1642.1	1647.0	1660.3	1643.7	1658.6	1604.0	1605.6	1572.5
30°	1676.9	1647.0	1673.6	1708.4	1706.7	1731.6	1723.3	1726.6	1688.5	1666.9	1622.2
32.5°	1736.5	1733.2	1749.8	1771.3	1779.6	1792.9	1791.2	1791.2	1768.0	1711.7	1720.0
35°	1802.8	1826.0	1845.9	1869.1	1872.4	1889.0	1865.8	1869.1	1845.9	1804.5	1817.7
37.5°	1933.7	1932.1	1953.6	1981.8	1985.1	1971.8	1990.0	1981.8	1950.3	1922.1	1900.6
40°	2086.2	2053.0	2072.9	2139.2	2144.1	2120.9	2119.3	2117.6	2094.4	2033.1	2019.9
42.5°	2218.7	2261.8	2258.5	2280.0	2265.1	2253.5	2294.9	2271.7	2253.5	2188.9	2177.3
45°	2389.4	2402.6	2445.7	2515.3	2444.1	2444.1	2472.2	2454.0	2444.1	2396.0	2351.3
47.5°	2601.5	2613.1	2699.2	2704.2	2657.8	2626.3	2714.1	2717.5	2676.0	2639.6	2584.9
50°	2850.0	2855.0	2932.9	3012.4	2961.0	2901.4	2990.9	3025.7	2932.9	2883.2	2815.2
52.5°	3123.4	3108.5	3173.1	3322.3	3272.6	3254.3	3350.4	3358.7	3232.8	3154.9	3173.1
55°	3438.3	3418.4	3594.0	3695.1	3663.6	3630.5	3673.5	3693.4	3592.4	3464.8	3509.5
57.5°	3845.9	3855.8	3943.6	4043.1	4094.4	4102.7	4122.6	4102.7	4000.0	3870.7	3829.3
60°	4253.5	4283.3	4454.0	4641.2	4657.8	4803.6	4777.1	4677.7	4531.9	4347.9	4356.2
62.5°	4404.3	4379.4	4654.5	5111.8	5501.2	5768.0	5650.3	5297.4	4959.4	4624.7	4649.5
65°	4101.1	4162.4	4536.8	5252.7	6097.7	7153.2	6526.9	5550.9	4868.2	4435.8	4387.7
67.5°	3534.4	3580.8	4056.3	4811.9	6311.5	8004.9	6858.3	5193.0	4293.3	3733.2	3763.0
70°	2462.3	2485.5	2951.1	3942.0	5723.2	7554.2	6187.2	3988.4	2964.4	2362.9	2396.0
72.5°	990.9	1047.2	1353.8	2374.5	4225.3	5739.8	4165.7	2092.8	1229.5	914.7	830.2
75°	366.2	367.9	432.5	816.9	2006.6	3607.3	1879.0	672.7	392.7	321.5	306.5
77.5°	212.1	210.4	225.4	294.9	581.6	1408.4	533.6	263.5	213.8	192.2	183.9
80°	132.6	130.9	154.1	195.5	255.2	386.1	225.4	164.0	144.2	124.3	124.3
82.5°	84.5	86.2	121.0	144.2	155.8	170.7	130.9	116.0	107.7	71.3	69.6
85°	54.7	49.7	84.5	96.1	86.2	76.2	72.9	61.3	56.3	34.8	38.1
87.5°	24.9	26.5	43.1	48.1	31.5	18.2	18.2	13.3	13.3	8.3	8.3
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)