

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: P479483

Luminaire Tested: **IFLD-S-SA3B-830-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479483
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-830-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

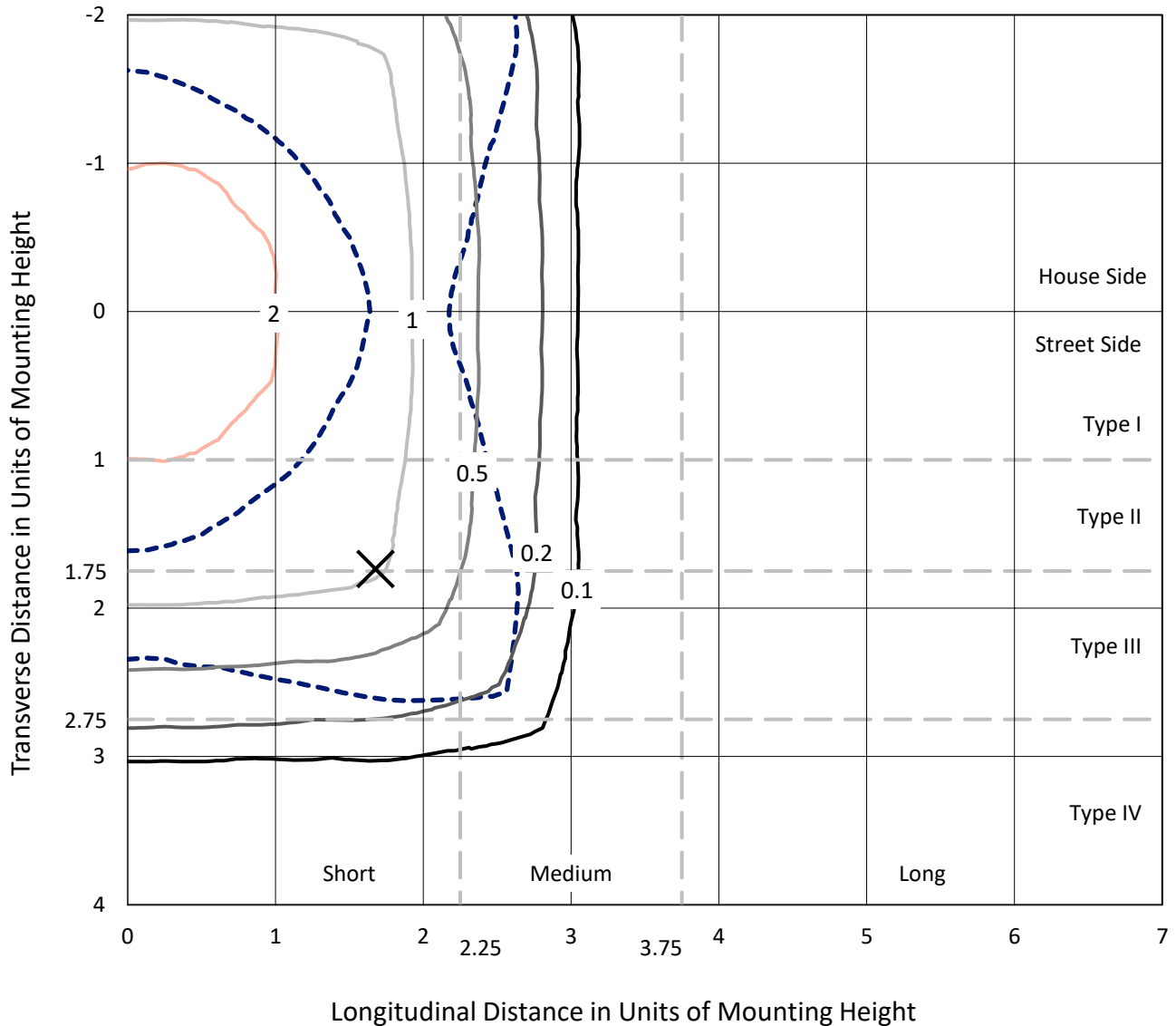
Lumens per Lamp: N/A
Luminaire Lumens: 13648 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 122.4
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

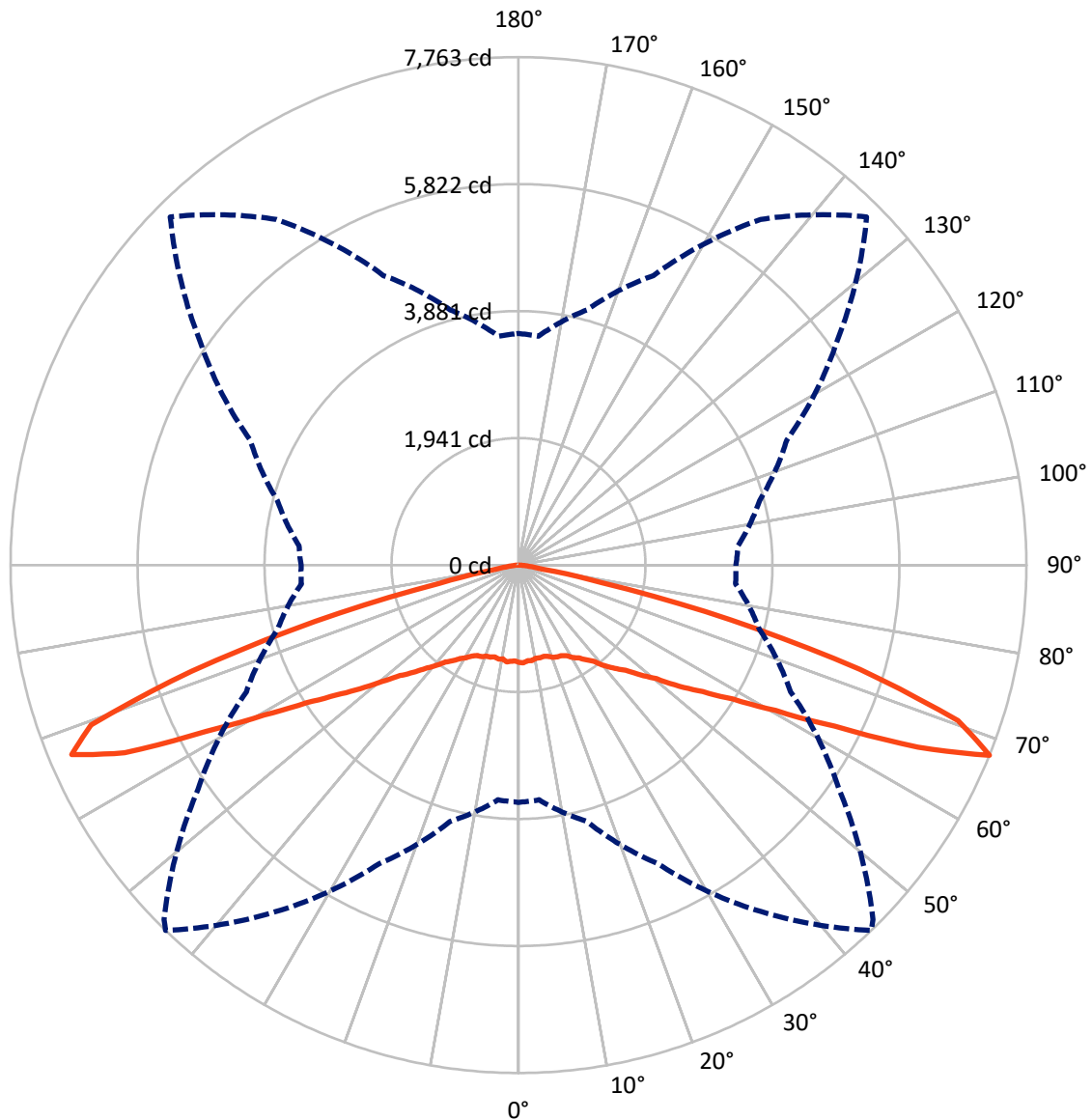
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.7 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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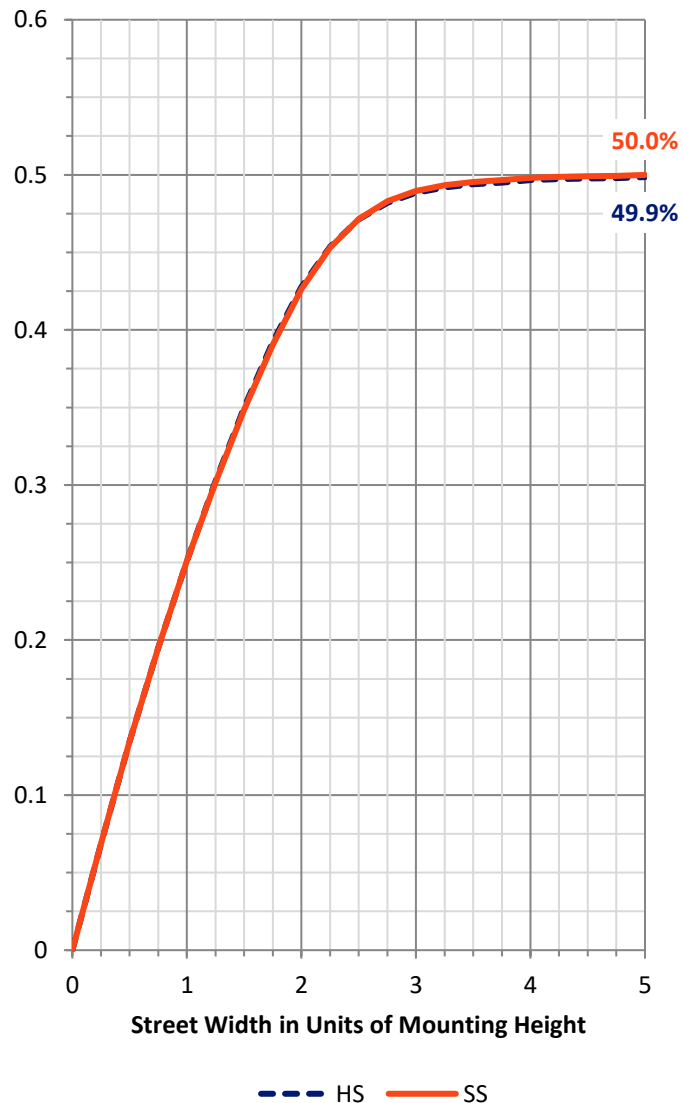
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6806.5	0.0	6806.5
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	6841.5	0.0	6841.5
	% Fixture	50.1	0.0	50.1
Total	Lumens	13648.0	0.0	13648.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.1	1.0
10°-20°	412.1	3.0
20°-30°	700.9	5.1
30°-40°	1111.3	8.1
40°-50°	1812.0	13.3
50°-60°	3094.7	22.7
60°-70°	4707.0	34.5
70°-80°	1586.6	11.6
80°-90°	82.4	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°	13648.0	100.0
0°-180°	13648.0	100.0

Coefficient of Utilization



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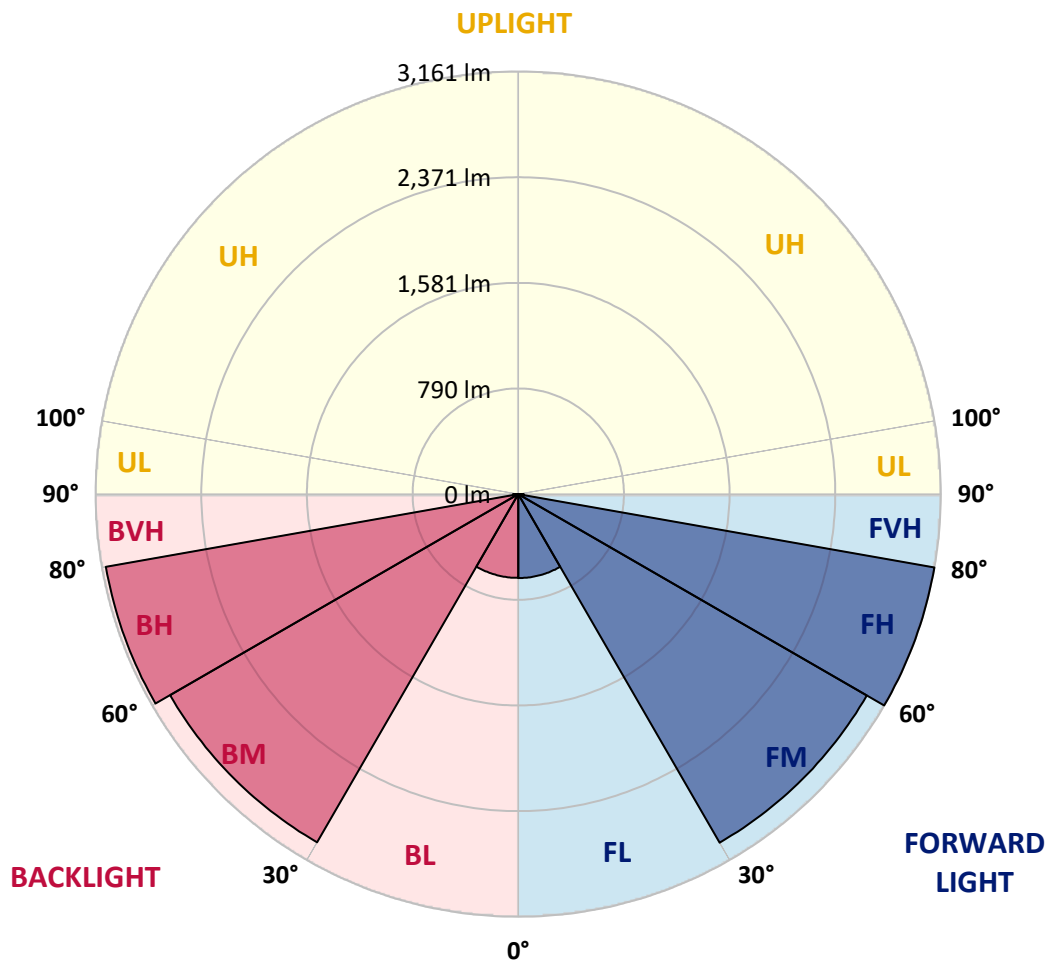
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	627.7	4.6			
FM (30°-60°)	3010.6	22.1			
FH (60°-80°)	3161.0	23.2			G2/5000
FVH (80°-90°)	42.1	0.3			G1/100
BL (0°-30°)	626.4	4.6	B2/1000		
BM (30°-60°)	3007.4	22.0	B3/5000		
BH (60°-80°)	3132.5	23.0	B4/5000		G2/5000
BVH (80°-90°)	40.2	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°	1490.8	1490.8	1490.8	1490.8	1490.8	1490.8	1490.8	1490.8	1490.8	1490.8	1490.8
2.5°	1456.5	1473.7	1486.1	1484.6	1489.3	1493.9	1487.7	1497.0	1490.8	1501.7	1507.9
5°	1484.6	1479.9	1481.5	1472.1	1493.9	1469.0	1469.0	1481.5	1497.0	1478.3	1489.3
7.5°	1467.4	1464.3	1456.5	1470.6	1475.2	1475.2	1487.7	1464.3	1490.8	1497.0	1498.6
10°	1448.8	1431.6	1455.0	1469.0	1472.1	1447.2	1458.1	1464.3	1456.5	1464.3	1469.0
12.5°	1433.2	1442.5	1442.5	1442.5	1437.8	1455.0	1465.9	1464.3	1448.8	1462.8	1437.8
15°	1431.6	1426.9	1441.0	1453.4	1445.6	1448.8	1453.4	1467.4	1437.8	1444.1	1444.1
17.5°	1430.1	1436.3	1441.0	1439.4	1465.9	1465.9	1461.2	1451.9	1475.2	1462.8	1445.6
20°	1436.3	1431.6	1444.1	1448.8	1467.4	1504.8	1490.8	1483.0	1470.6	1455.0	1455.0
22.5°	1444.1	1441.0	1458.1	1478.3	1514.2	1523.5	1522.0	1512.6	1490.8	1472.1	1469.0
25°	1472.1	1444.1	1462.8	1501.7	1514.2	1532.9	1545.3	1532.9	1503.3	1507.9	1479.9
27.5°	1514.2	1509.5	1534.4	1560.9	1550.0	1567.1	1556.2	1565.6	1567.1	1543.8	1515.7
30°	1564.0	1550.0	1565.6	1617.0	1621.7	1640.4	1621.7	1596.7	1604.5	1584.3	1570.3
32.5°	1635.7	1631.0	1660.6	1694.9	1701.1	1691.8	1682.4	1696.4	1663.7	1648.1	1623.2
35°	1682.4	1702.7	1738.5	1765.0	1785.2	1775.9	1780.6	1766.5	1774.3	1741.6	1730.7
37.5°	1821.1	1813.3	1821.1	1866.2	1870.9	1866.2	1870.9	1886.5	1875.6	1847.5	1819.5
40°	1951.9	1939.5	1958.1	2009.6	2006.4	2022.0	1990.9	2008.0	2008.0	1955.0	1944.1
42.5°	2050.1	2092.1	2113.9	2156.0	2171.6	2157.5	2151.3	2154.4	2188.7	2126.4	2103.0
45°	2252.6	2251.0	2316.4	2339.8	2296.2	2293.1	2280.6	2318.0	2341.4	2305.5	2296.2
47.5°	2472.2	2483.1	2520.5	2529.9	2556.3	2508.1	2508.1	2512.7	2595.3	2511.2	2467.5
50°	2670.1	2684.1	2758.9	2832.1	2782.2	2730.8	2751.1	2776.0	2821.2	2741.7	2704.3
52.5°	2910.0	2986.3	3036.1	3075.1	3110.9	3075.1	3028.4	3056.4	3145.2	3039.3	2992.5
55°	3255.8	3316.5	3363.3	3434.9	3464.5	3416.2	3411.6	3408.5	3458.3	3346.1	3282.3
57.5°	3642.1	3617.2	3692.0	3802.6	3910.1	3863.3	3849.3	3852.4	3864.9	3706.0	3657.7
60°	4121.9	4150.0	4238.8	4335.3	4449.1	4514.5	4422.6	4369.6	4380.5	4164.0	4089.2
62.5°	4396.1	4458.4	4659.4	4991.2	5220.2	5424.2	5438.3	5094.0	4863.4	4442.8	4125.0
65°	4263.7	4254.3	4632.9	5246.7	6114.3	6707.9	6619.1	5784.1	4978.7	4310.4	3883.6
67.5°	3626.5	3601.6	4059.6	5033.2	6466.4	7762.5	7661.2	5978.8	4589.3	3813.5	3330.6
70°	2336.7	2330.5	2827.4	3836.9	5773.2	7126.9	7164.3	5430.5	3735.6	2793.1	2314.9
72.5°	849.0	900.4	1188.6	2062.5	3921.0	5452.3	5475.7	4020.7	2148.2	1291.4	951.8
75°	313.1	322.5	375.4	669.9	1786.8	3347.7	3434.9	1950.4	763.3	420.6	342.7
77.5°	180.7	182.3	201.0	249.2	529.7	1307.0	1360.0	592.0	296.0	224.3	207.2
80°	123.1	121.5	141.8	162.0	211.9	370.8	394.1	247.7	186.9	155.8	130.9
82.5°	71.7	76.3	104.4	115.3	129.3	163.6	166.7	154.2	140.2	115.3	85.7
85°	43.6	35.8	57.6	63.9	74.8	73.2	73.2	84.1	90.4	81.0	48.3
87.5°	10.9	10.9	14.0	15.6	20.3	15.6	17.1	32.7	43.6	40.5	24.9
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°	1490.8	1490.8	1490.8	1490.8	1490.8	1490.8	1490.8	1490.8	1490.8	1490.8	1490.8
2.5°	1493.9	1489.3	1492.4	1509.5	1498.6	1465.9	1473.7	1490.8	1476.8	1469.0	1467.4
5°	1487.7	1497.0	1486.1	1489.3	1500.2	1473.7	1478.3	1500.2	1490.8	1493.9	1476.8
7.5°	1489.3	1493.9	1484.6	1470.6	1470.6	1492.4	1479.9	1483.0	1469.0	1492.4	1461.2
10°	1479.9	1467.4	1456.5	1464.3	1461.2	1455.0	1450.3	1459.7	1445.6	1465.9	1444.1
12.5°	1451.9	1455.0	1451.9	1448.8	1455.0	1470.6	1445.6	1448.8	1426.9	1430.1	1441.0
15°	1441.0	1450.3	1447.2	1464.3	1472.1	1448.8	1467.4	1448.8	1431.6	1422.3	1439.4
17.5°	1445.6	1459.7	1455.0	1467.4	1453.4	1470.6	1473.7	1465.9	1445.6	1437.8	1445.6
20°	1450.3	1445.6	1451.9	1473.7	1493.9	1476.8	1476.8	1472.1	1453.4	1442.5	1442.5
22.5°	1461.2	1453.4	1462.8	1479.9	1486.1	1512.6	1489.3	1478.3	1447.2	1419.2	1445.6
25°	1483.0	1487.7	1493.9	1487.7	1522.0	1518.9	1515.7	1507.9	1459.7	1461.2	1456.5
27.5°	1525.1	1498.6	1506.4	1543.8	1548.4	1560.9	1545.3	1559.4	1507.9	1509.5	1478.3
30°	1576.5	1548.4	1573.4	1606.1	1604.5	1627.9	1620.1	1623.2	1587.4	1567.1	1525.1
32.5°	1632.6	1629.5	1645.0	1665.3	1673.1	1685.5	1684.0	1684.0	1662.2	1609.2	1617.0
35°	1694.9	1716.7	1735.4	1757.2	1760.3	1775.9	1754.1	1757.2	1735.4	1696.4	1708.9
37.5°	1817.9	1816.4	1836.6	1863.1	1866.2	1853.8	1870.9	1863.1	1833.5	1807.0	1786.8
40°	1961.3	1930.1	1948.8	2011.1	2015.8	1994.0	1992.4	1990.9	1969.1	1911.4	1899.0
42.5°	2085.9	2126.4	2123.3	2143.5	2129.5	2118.6	2157.5	2135.7	2118.6	2057.8	2046.9
45°	2246.3	2258.8	2299.3	2364.7	2297.7	2297.7	2324.2	2307.1	2297.7	2252.6	2210.5
47.5°	2445.7	2456.6	2537.6	2542.3	2498.7	2469.1	2551.7	2554.8	2515.8	2481.6	2430.2
50°	2679.4	2684.1	2757.3	2832.1	2783.8	2727.7	2811.8	2844.5	2757.3	2710.6	2646.7
52.5°	2936.4	2922.4	2983.2	3123.4	3076.6	3059.5	3149.9	3157.7	3039.3	2966.0	2983.2
55°	3232.4	3213.7	3378.9	3473.9	3444.3	3413.1	3453.6	3472.3	3377.3	3257.4	3299.4
57.5°	3615.6	3625.0	3707.6	3801.0	3849.3	3857.1	3875.8	3857.1	3760.5	3639.0	3600.1
60°	3998.9	4026.9	4187.4	4363.4	4379.0	4516.1	4491.1	4397.7	4260.6	4087.7	4095.4
62.5°	4140.6	4117.3	4375.8	4805.8	5171.9	5422.7	5312.1	4980.3	4662.5	4347.8	4371.2
65°	3855.5	3913.2	4265.2	4938.2	5732.7	6725.0	6136.2	5218.6	4576.8	4170.2	4125.0
67.5°	3322.8	3366.4	3813.5	4523.8	5933.6	7525.7	6447.7	4882.1	4036.2	3509.7	3537.8
70°	2314.9	2336.7	2774.4	3706.0	5380.6	7102.0	5816.8	3749.6	2786.9	2221.4	2252.6
72.5°	931.6	984.5	1272.7	2232.3	3972.4	5396.2	3916.3	1967.5	1155.9	859.9	780.5
75°	344.3	345.8	406.6	768.0	1886.5	3391.3	1766.5	632.5	369.2	302.2	288.2
77.5°	199.4	197.8	211.9	277.3	546.8	1324.1	501.6	247.7	201.0	180.7	172.9
80°	124.6	123.1	144.9	183.8	239.9	363.0	211.9	154.2	135.5	116.8	116.8
82.5°	79.4	81.0	113.7	135.5	146.4	160.5	123.1	109.0	101.3	67.0	65.4
85°	51.4	46.7	79.4	90.4	81.0	71.7	68.5	57.6	53.0	32.7	35.8
87.5°	23.4	24.9	40.5	45.2	29.6	17.1	17.1	12.5	12.5	7.8	7.8
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)