

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: P479323

Luminaire Tested: **IFLD-S-SA2C-740-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479323
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-740-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

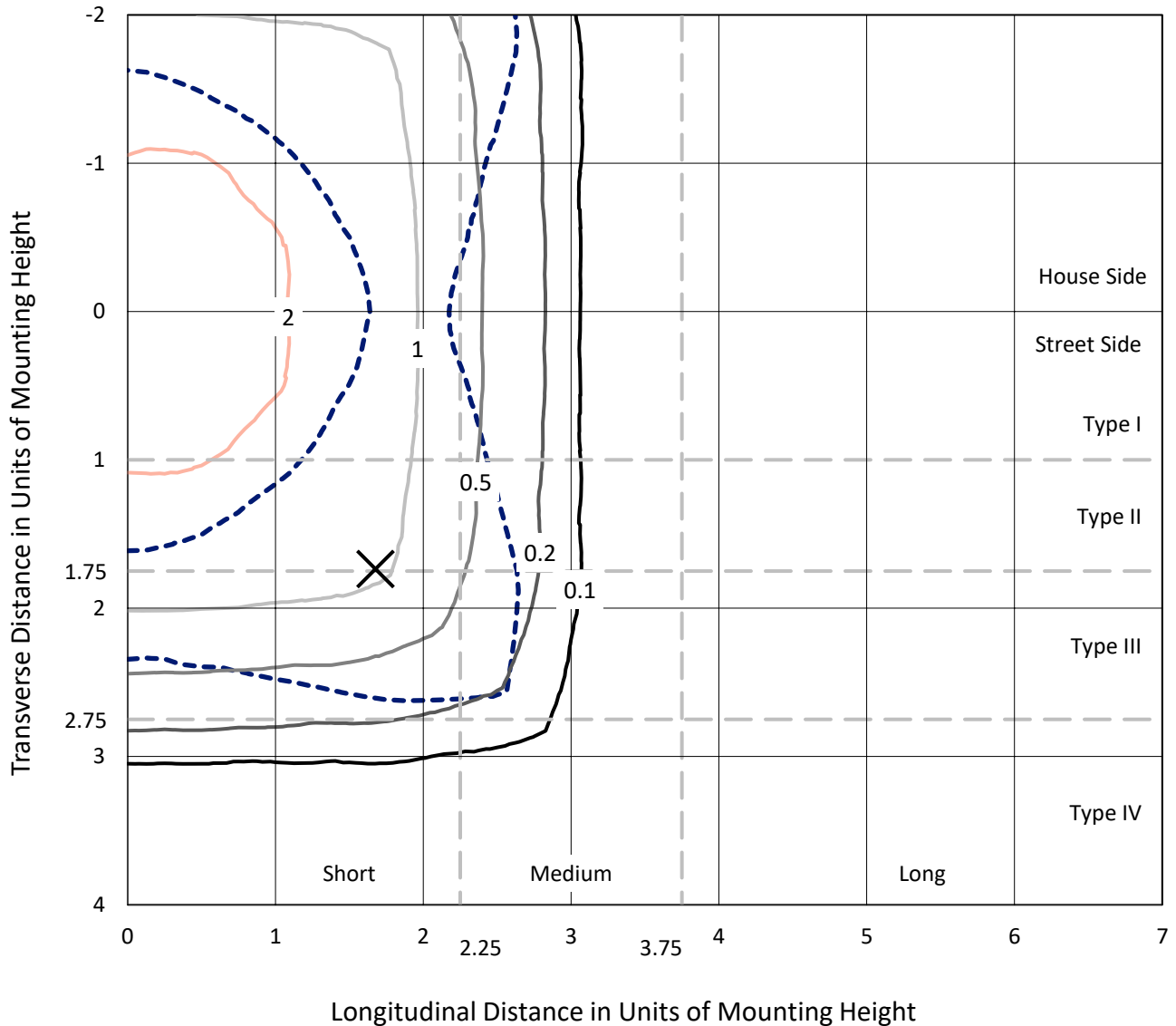
Lumens per Lamp: N/A
Luminaire Lumens: 14347.1 lumens
Efficiency: N/A
Efficacy: 132.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 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

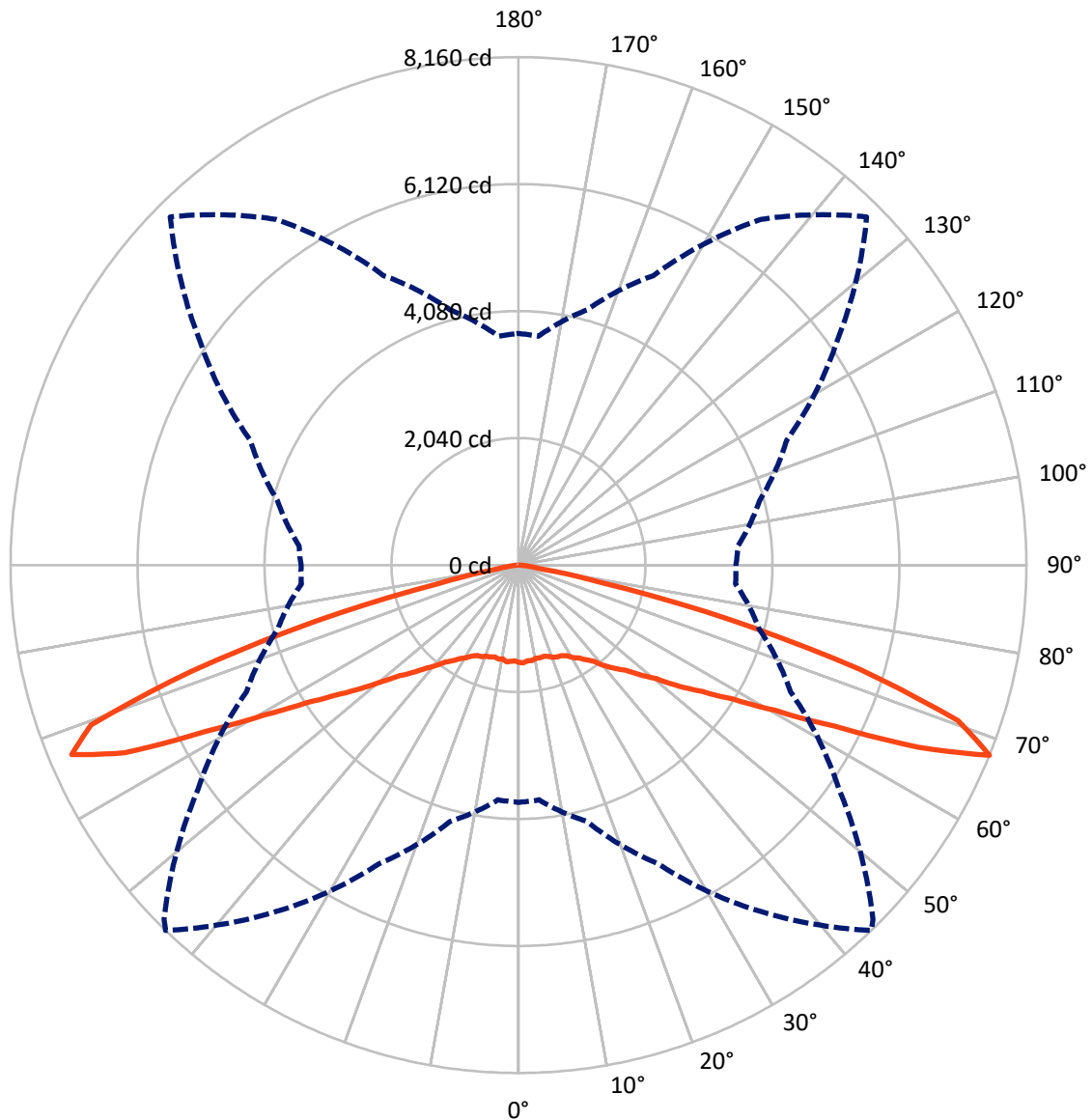
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 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	7155.2	0.0	7155.2
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	7191.9	0.0	7191.9
	% Fixture	50.1	0.0	50.1
Total	Lumens	14347.1	0.0	14347.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.3	1.0
10°-20°	433.3	3.0
20°-30°	736.8	5.1
30°-40°	1168.2	8.1
40°-50°	1904.8	13.3
50°-60°	3253.2	22.7
60°-70°	4948.1	34.5
70°-80°	1667.8	11.6
80°-90°	86.6	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°	14347.1	100.0
0°-180°	14347.1	100.0

Coefficient of Utilization



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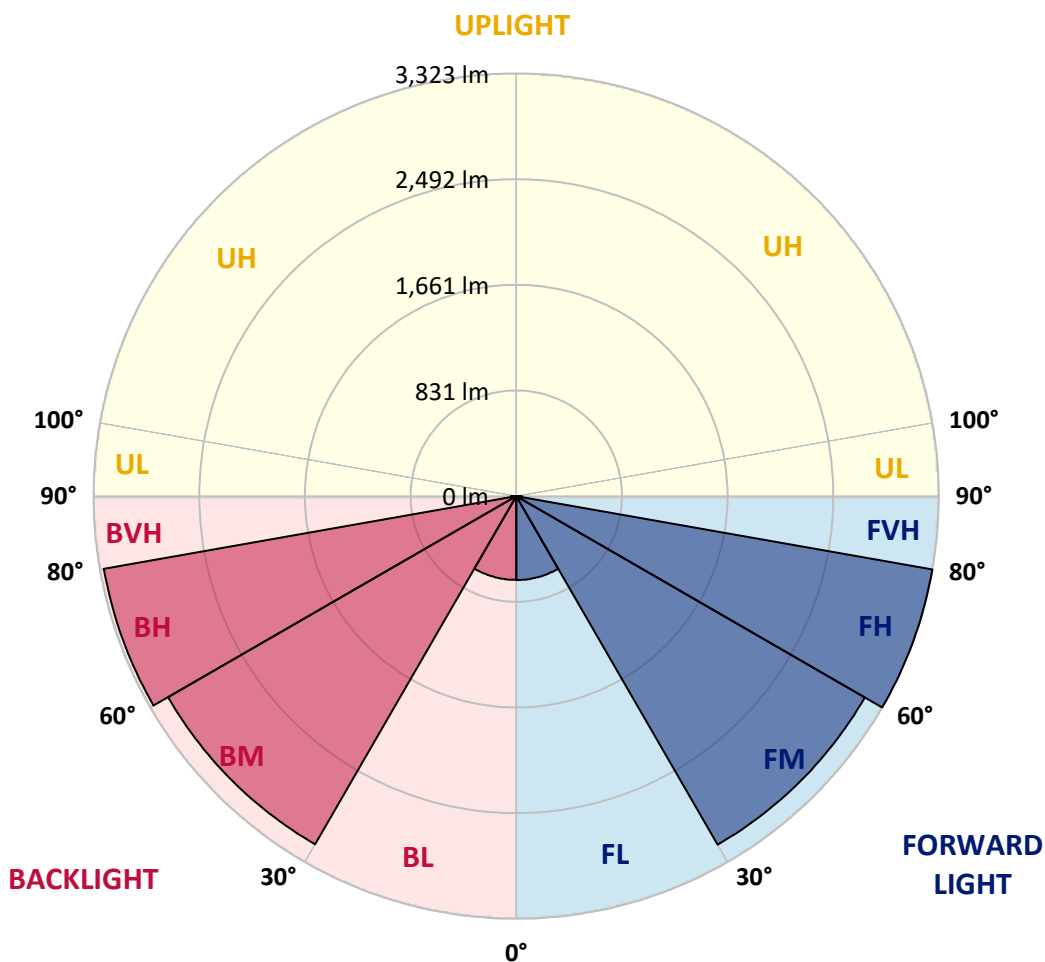
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	659.8	4.6			
FM (30°-60°)	3164.8	22.1			
FH (60°-80°)	3322.9	23.2			G2/5000
FVH (80°-90°)	44.3	0.3			G1/100
BL (0°-30°)	658.5	4.6	B2/1000		
BM (30°-60°)	3161.4	22.0	B3/5000		
BH (60°-80°)	3293.0	23.0	B4/5000		G2/5000
BVH (80°-90°)	42.3	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°	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2
2.5°	1531.1	1549.2	1562.3	1560.6	1565.5	1570.5	1563.9	1573.7	1567.2	1578.6	1585.2
5°	1560.6	1555.7	1557.4	1547.5	1570.5	1544.3	1544.3	1557.4	1573.7	1554.1	1565.5
7.5°	1542.6	1539.3	1531.1	1545.9	1550.8	1550.8	1563.9	1539.3	1567.2	1573.7	1575.4
10°	1523.0	1504.9	1529.5	1544.3	1547.5	1521.3	1532.8	1539.3	1531.1	1539.3	1544.3
12.5°	1506.6	1516.4	1516.4	1516.4	1511.5	1529.5	1541.0	1539.3	1523.0	1537.7	1511.5
15°	1504.9	1500.0	1514.8	1527.9	1519.7	1523.0	1527.9	1542.6	1511.5	1518.0	1518.0
17.5°	1503.3	1509.9	1514.8	1513.1	1541.0	1541.0	1536.1	1526.2	1550.8	1537.7	1519.7
20°	1509.9	1504.9	1518.0	1523.0	1542.6	1581.9	1567.2	1559.0	1545.9	1529.5	1529.5
22.5°	1518.0	1514.8	1532.8	1554.1	1591.7	1601.6	1599.9	1590.1	1567.2	1547.5	1544.3
25°	1547.5	1518.0	1537.7	1578.6	1591.7	1611.4	1624.5	1611.4	1580.3	1585.2	1555.7
27.5°	1591.7	1586.8	1613.0	1640.9	1629.4	1647.4	1636.0	1645.8	1647.4	1622.9	1593.4
30°	1644.1	1629.4	1645.8	1699.8	1704.7	1724.4	1704.7	1678.5	1686.7	1665.4	1650.7
32.5°	1719.5	1714.6	1745.7	1781.7	1788.3	1778.4	1768.6	1783.3	1748.9	1732.6	1706.4
35°	1768.6	1789.9	1827.6	1855.4	1876.7	1866.9	1871.8	1857.0	1865.2	1830.8	1819.4
37.5°	1914.3	1906.2	1914.3	1961.8	1966.7	1961.8	1966.7	1983.1	1971.7	1942.2	1912.7
40°	2051.9	2038.8	2058.5	2112.5	2109.2	2125.6	2092.8	2110.9	2110.9	2055.2	2043.7
42.5°	2155.1	2199.3	2222.2	2266.4	2282.8	2268.1	2261.5	2264.8	2300.8	2235.3	2210.8
45°	2368.0	2366.3	2435.1	2459.7	2413.8	2410.5	2397.4	2436.7	2461.3	2423.6	2413.8
47.5°	2598.9	2610.3	2649.6	2659.5	2687.3	2636.5	2636.5	2641.4	2728.2	2639.8	2593.9
50°	2806.8	2821.6	2900.2	2977.1	2924.7	2870.7	2892.0	2918.2	2965.7	2882.2	2842.9
52.5°	3059.0	3139.3	3191.7	3232.6	3270.3	3232.6	3183.5	3213.0	3306.3	3194.9	3145.8
55°	3422.6	3486.4	3535.6	3610.9	3642.0	3591.2	3586.3	3583.1	3635.5	3517.6	3450.4
57.5°	3828.7	3802.5	3881.1	3997.4	4110.4	4061.2	4046.5	4049.8	4062.9	3895.8	3845.1
60°	4333.1	4362.5	4455.9	4557.4	4677.0	4745.7	4649.1	4593.4	4604.9	4377.3	4298.7
62.5°	4621.3	4686.8	4898.0	5246.8	5487.6	5702.1	5716.8	5354.9	5112.6	4670.4	4336.3
65°	4482.1	4472.3	4870.2	5515.4	6427.6	7051.5	6958.1	6080.4	5233.7	4531.2	4082.5
67.5°	3812.3	3786.1	4267.6	5291.1	6797.6	8160.1	8053.7	6285.1	4824.3	4008.8	3501.2
70°	2456.4	2449.8	2972.2	4033.4	6068.9	7492.0	7531.3	5708.6	3926.9	2936.2	2433.5
72.5°	892.5	946.5	1249.5	2168.2	4121.8	5731.6	5756.1	4226.6	2258.2	1357.6	1000.6
75°	329.2	339.0	394.7	704.2	1878.3	3519.2	3610.9	2050.3	802.4	442.2	360.3
77.5°	190.0	191.6	211.2	262.0	556.8	1373.9	1429.6	622.3	311.1	235.8	217.8
80°	129.4	127.7	149.0	170.3	222.7	389.7	414.3	260.4	196.5	163.8	137.6
82.5°	75.3	80.2	109.7	121.2	135.9	171.9	175.2	162.1	147.4	121.2	90.1
85°	45.9	37.7	60.6	67.1	78.6	77.0	77.0	88.4	95.0	85.2	50.8
87.5°	11.5	11.5	14.7	16.4	21.3	16.4	18.0	34.4	45.9	42.6	26.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2
2.5°	1570.5	1565.5	1568.8	1586.8	1575.4	1541.0	1549.2	1567.2	1552.4	1544.3	1542.6
5°	1563.9	1573.7	1562.3	1565.5	1577.0	1549.2	1554.1	1577.0	1567.2	1570.5	1552.4
7.5°	1565.5	1570.5	1560.6	1545.9	1545.9	1568.8	1555.7	1559.0	1544.3	1568.8	1536.1
10°	1555.7	1542.6	1531.1	1539.3	1536.1	1529.5	1524.6	1534.4	1519.7	1541.0	1518.0
12.5°	1526.2	1529.5	1526.2	1523.0	1529.5	1545.9	1519.7	1523.0	1500.0	1503.3	1514.8
15°	1514.8	1524.6	1521.3	1539.3	1547.5	1523.0	1542.6	1523.0	1504.9	1495.1	1513.1
17.5°	1519.7	1534.4	1529.5	1542.6	1527.9	1545.9	1549.2	1541.0	1519.7	1511.5	1519.7
20°	1524.6	1519.7	1526.2	1549.2	1570.5	1552.4	1552.4	1547.5	1527.9	1516.4	1516.4
22.5°	1536.1	1527.9	1537.7	1555.7	1562.3	1590.1	1565.5	1554.1	1521.3	1491.8	1519.7
25°	1559.0	1563.9	1570.5	1563.9	1599.9	1596.7	1593.4	1585.2	1534.4	1536.1	1531.1
27.5°	1603.2	1575.4	1583.6	1622.9	1627.8	1640.9	1624.5	1639.2	1585.2	1586.8	1554.1
30°	1657.2	1627.8	1654.0	1688.4	1686.7	1711.3	1703.1	1706.4	1668.7	1647.4	1603.2
32.5°	1716.2	1712.9	1729.3	1750.6	1758.8	1771.9	1770.2	1770.2	1747.3	1691.6	1699.8
35°	1781.7	1804.6	1824.3	1847.2	1850.5	1866.9	1843.9	1847.2	1824.3	1783.3	1796.4
37.5°	1911.1	1909.4	1930.7	1958.6	1961.8	1948.7	1966.7	1958.6	1927.4	1899.6	1878.3
40°	2061.7	2029.0	2048.6	2114.1	2119.0	2096.1	2094.5	2092.8	2069.9	2009.3	1996.2
42.5°	2192.7	2235.3	2232.0	2253.3	2238.6	2227.1	2268.1	2245.1	2227.1	2163.3	2151.8
45°	2361.4	2374.5	2417.1	2485.9	2415.4	2415.4	2443.3	2425.3	2415.4	2368.0	2323.7
47.5°	2571.0	2582.5	2667.6	2672.6	2626.7	2595.6	2682.4	2685.7	2644.7	2608.7	2554.6
50°	2816.7	2821.6	2898.5	2977.1	2926.4	2867.4	2955.9	2990.2	2898.5	2849.4	2782.3
52.5°	3086.9	3072.1	3136.0	3283.4	3234.2	3216.2	3311.2	3319.4	3194.9	3118.0	3136.0
55°	3398.0	3378.4	3551.9	3651.8	3620.7	3588.0	3630.5	3650.2	3550.3	3424.2	3468.4
57.5°	3800.9	3810.7	3897.5	3995.7	4046.5	4054.7	4074.3	4054.7	3953.1	3825.4	3784.5
60°	4203.7	4233.2	4401.9	4586.9	4603.3	4747.4	4721.2	4622.9	4478.8	4297.0	4305.2
62.5°	4352.7	4328.2	4600.0	5052.0	5436.8	5700.5	5584.2	5235.4	4901.3	4570.5	4595.1
65°	4053.0	4113.6	4483.7	5191.2	6026.3	7069.5	6450.5	5485.9	4811.2	4383.8	4336.3
67.5°	3493.0	3538.8	4008.8	4755.6	6237.6	7911.2	6778.0	5132.2	4243.0	3689.5	3719.0
70°	2433.5	2456.4	2916.6	3895.8	5656.2	7465.8	6114.8	3941.7	2929.7	2335.2	2368.0
72.5°	979.3	1035.0	1337.9	2346.7	4175.9	5672.6	4116.9	2068.3	1215.1	904.0	820.4
75°	361.9	363.5	427.4	807.3	1983.1	3565.0	1857.0	664.9	388.1	317.7	303.0
77.5°	209.6	208.0	222.7	291.5	574.8	1392.0	527.3	260.4	211.2	190.0	181.8
80°	131.0	129.4	152.3	193.2	252.2	381.6	222.7	162.1	142.5	122.8	122.8
82.5°	83.5	85.2	119.5	142.5	153.9	168.7	129.4	114.6	106.4	70.4	68.8
85°	54.0	49.1	83.5	95.0	85.2	75.3	72.1	60.6	55.7	34.4	37.7
87.5°	24.6	26.2	42.6	47.5	31.1	18.0	18.0	13.1	13.1	8.2	8.2
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)