

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: P479401

Luminaire Tested: **IFLD-S-SA2C-760-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479401
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-760-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ
distribution lens
Light Source: (32) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

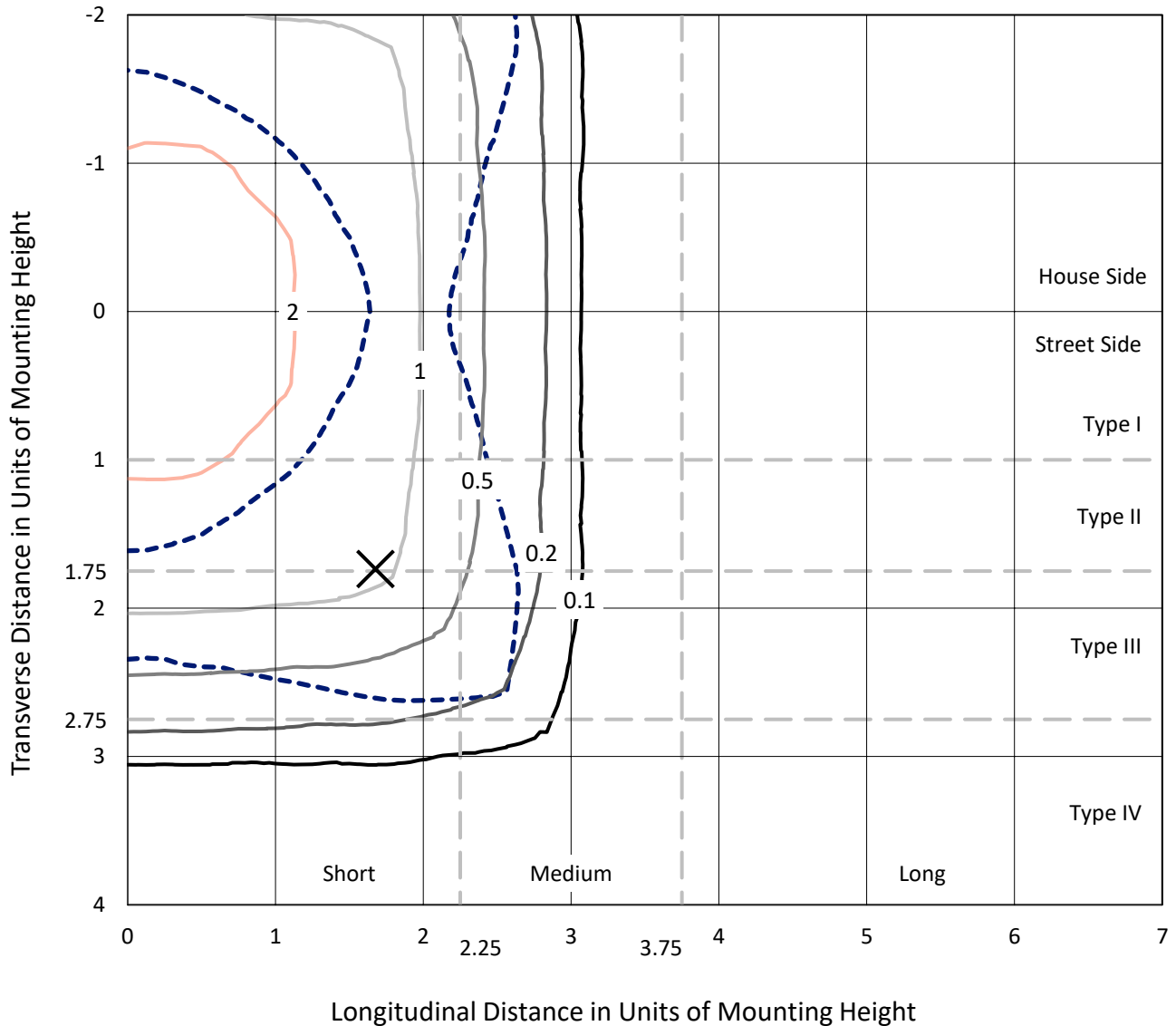
Lumens per Lamp: N/A
Luminaire Lumens: 14675.7 lumens
Efficiency: N/A
Efficacy: 135.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

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

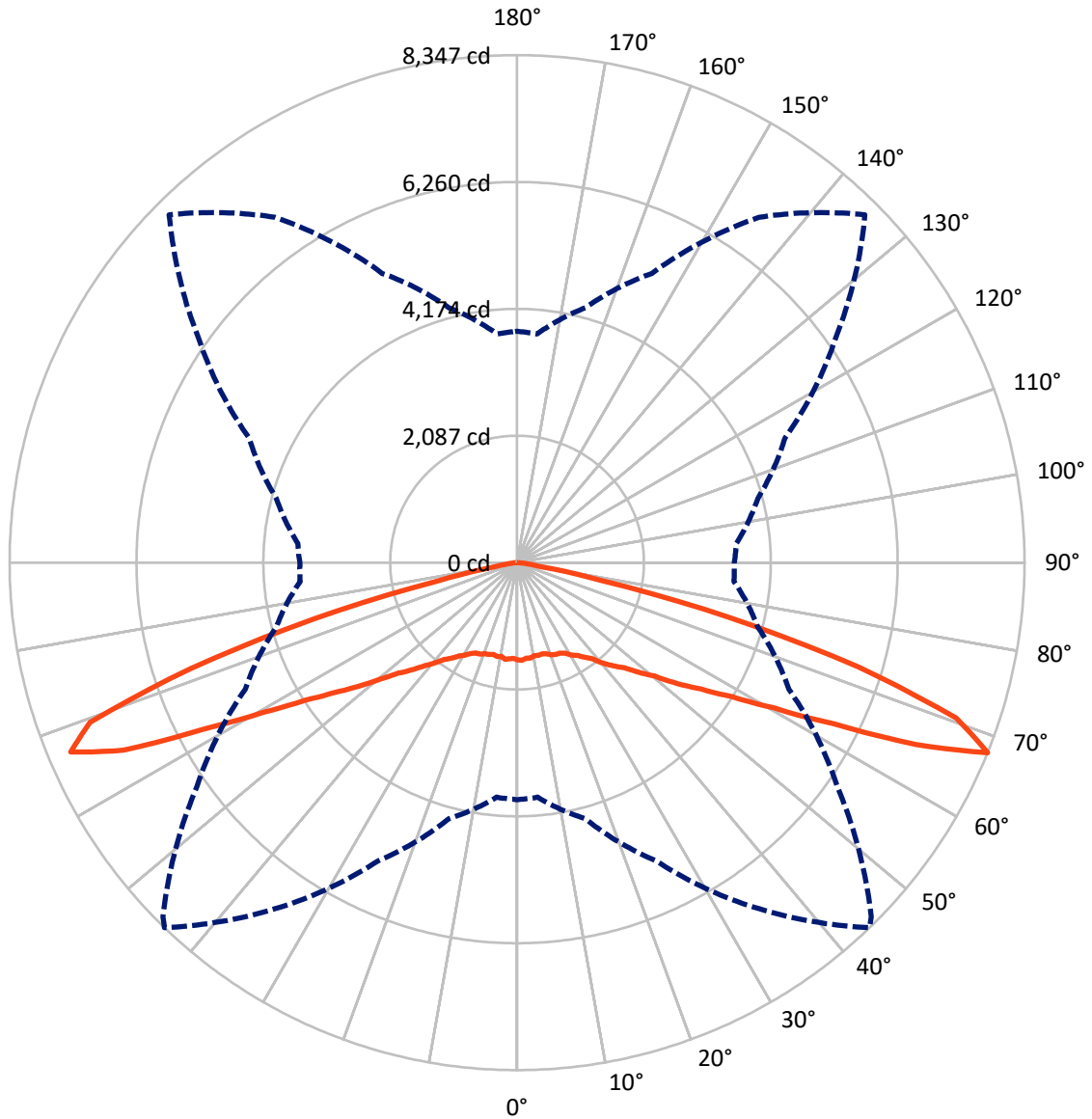
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 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	7319.1	0.0	7319.1
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	7356.6	0.0	7356.6
	% Fixture	50.1	0.0	50.1
Total	Lumens	14675.7	0.0	14675.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.7	1.0
10°-20°	443.2	3.0
20°-30°	753.7	5.1
30°-40°	1194.9	8.1
40°-50°	1948.5	13.3
50°-60°	3327.7	22.7
60°-70°	5061.4	34.5
70°-80°	1706.0	11.6
80°-90°	88.6	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°	14675.7	100.0
0°-180°	14675.7	100.0

Coefficient of Utilization



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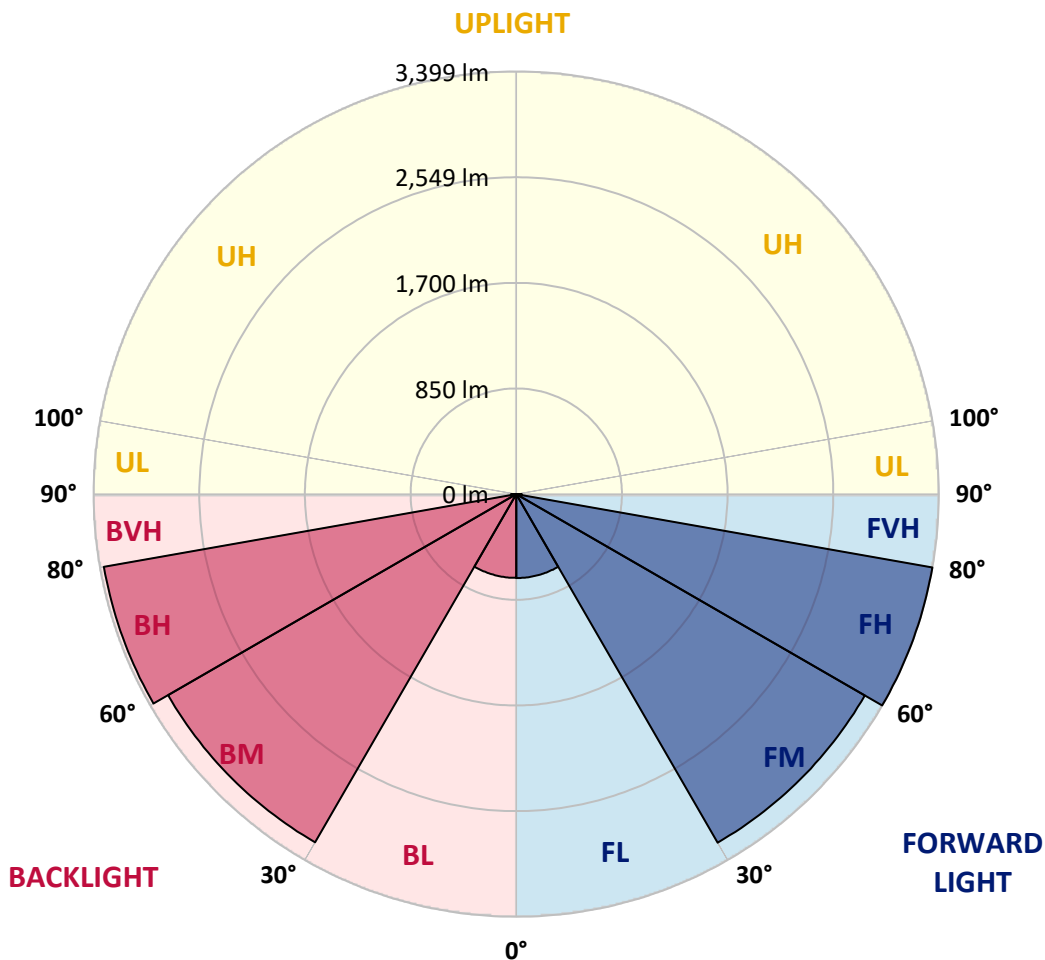
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	675.0	4.6			
FM (30°-60°)	3237.3	22.1			
FH (60°-80°)	3399.0	23.2			G2/5000
FVH (80°-90°)	45.3	0.3			G1/100
BL (0°-30°)	673.6	4.6	B2/1000		
BM (30°-60°)	3233.8	22.0	B3/5000		
BH (60°-80°)	3368.4	23.0	B4/5000		G2/5000
BVH (80°-90°)	43.3	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°	1603.1	1603.1	1603.1	1603.1	1603.1	1603.1	1603.1	1603.1	1603.1	1603.1	1603.1
2.5°	1566.2	1584.6	1598.0	1596.4	1601.4	1606.4	1599.7	1609.8	1603.1	1614.8	1621.5
5°	1596.4	1591.3	1593.0	1583.0	1606.4	1579.6	1579.6	1593.0	1609.8	1589.7	1601.4
7.5°	1577.9	1574.6	1566.2	1581.3	1586.3	1586.3	1599.7	1574.6	1603.1	1609.8	1611.4
10°	1557.8	1539.4	1564.5	1579.6	1583.0	1556.2	1567.9	1574.6	1566.2	1574.6	1579.6
12.5°	1541.1	1551.1	1551.1	1551.1	1546.1	1564.5	1576.3	1574.6	1557.8	1572.9	1546.1
15°	1539.4	1534.4	1549.5	1562.9	1554.5	1557.8	1562.9	1577.9	1546.1	1552.8	1552.8
17.5°	1537.7	1544.4	1549.5	1547.8	1576.3	1576.3	1571.2	1561.2	1586.3	1572.9	1554.5
20°	1544.4	1539.4	1552.8	1557.8	1577.9	1618.1	1603.1	1594.7	1581.3	1564.5	1564.5
22.5°	1552.8	1549.5	1567.9	1589.7	1628.2	1638.2	1636.6	1626.5	1603.1	1583.0	1579.6
25°	1583.0	1552.8	1572.9	1614.8	1628.2	1648.3	1661.7	1648.3	1616.5	1621.5	1591.3
27.5°	1628.2	1623.2	1650.0	1678.4	1666.7	1685.1	1673.4	1683.5	1685.1	1660.0	1629.9
30°	1681.8	1666.7	1683.5	1738.7	1743.8	1763.9	1743.8	1717.0	1725.3	1703.6	1688.5
32.5°	1758.8	1753.8	1785.7	1822.5	1829.2	1819.2	1809.1	1824.2	1789.0	1772.2	1745.4
35°	1809.1	1830.9	1869.4	1897.9	1919.7	1909.6	1914.6	1899.6	1907.9	1872.8	1861.0
37.5°	1958.2	1949.8	1958.2	2006.8	2011.8	2006.8	2011.8	2028.5	2016.8	1986.7	1956.5
40°	2098.9	2085.5	2105.6	2160.9	2157.5	2174.3	2140.8	2159.2	2159.2	2102.2	2090.5
42.5°	2204.4	2249.7	2273.1	2318.3	2335.1	2320.0	2313.3	2316.7	2353.5	2286.5	2261.4
45°	2422.2	2420.5	2490.9	2516.0	2469.1	2465.7	2452.3	2492.5	2517.7	2479.1	2469.1
47.5°	2658.4	2670.1	2710.3	2720.4	2748.8	2696.9	2696.9	2701.9	2790.7	2700.3	2653.3
50°	2871.1	2886.2	2966.6	3045.3	2991.7	2936.4	2958.2	2985.0	3033.6	2948.2	2908.0
52.5°	3129.1	3211.2	3264.8	3306.6	3345.2	3306.6	3256.4	3286.5	3382.0	3268.1	3217.9
55°	3500.9	3566.3	3616.5	3693.6	3725.4	3673.5	3668.5	3665.1	3718.7	3598.1	3529.4
57.5°	3916.4	3889.6	3970.0	4088.9	4204.5	4154.2	4139.2	4142.5	4155.9	3985.0	3933.1
60°	4432.3	4462.5	4557.9	4661.8	4784.1	4854.4	4755.6	4698.6	4710.4	4477.5	4397.1
62.5°	4727.1	4794.1	5010.2	5367.0	5613.2	5832.7	5847.8	5477.6	5229.6	4777.4	4435.6
65°	4584.7	4574.7	4981.7	5641.7	6574.7	7213.0	7117.5	6219.6	5353.6	4635.0	4176.0
67.5°	3899.6	3872.8	4365.3	5412.2	6953.3	8347.0	8238.1	6429.0	4934.8	4100.6	3581.4
70°	2512.6	2505.9	3040.3	4125.8	6207.9	7663.6	7703.8	5839.4	4016.9	3003.4	2489.2
72.5°	912.9	968.2	1278.1	2217.8	4216.2	5862.8	5888.0	4323.4	2310.0	1388.7	1023.5
75°	336.7	346.7	403.7	720.3	1921.3	3599.8	3693.6	2097.2	820.8	452.3	368.5
77.5°	194.3	196.0	216.1	268.0	569.5	1405.4	1462.4	636.5	318.3	241.2	222.8
80°	132.3	130.7	152.4	174.2	227.8	398.7	423.8	266.3	201.0	167.5	140.7
82.5°	77.1	82.1	112.2	124.0	139.0	175.9	179.2	165.8	150.8	124.0	92.1
85°	46.9	38.5	62.0	68.7	80.4	78.7	78.7	90.5	97.2	87.1	51.9
87.5°	11.7	11.7	15.1	16.8	21.8	16.8	18.4	35.2	46.9	43.6	26.8
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°	1603.1	1603.1	1603.1	1603.1	1603.1	1603.1	1603.1	1603.1	1603.1	1603.1	1603.1
2.5°	1606.4	1601.4	1604.7	1623.2	1611.4	1576.3	1584.6	1603.1	1588.0	1579.6	1577.9
5°	1599.7	1609.8	1598.0	1601.4	1613.1	1584.6	1589.7	1613.1	1603.1	1606.4	1588.0
7.5°	1601.4	1606.4	1596.4	1581.3	1581.3	1604.7	1591.3	1594.7	1579.6	1604.7	1571.2
10°	1591.3	1577.9	1566.2	1574.6	1571.2	1564.5	1559.5	1569.6	1554.5	1576.3	1552.8
12.5°	1561.2	1564.5	1561.2	1557.8	1564.5	1581.3	1554.5	1557.8	1534.4	1537.7	1549.5
15°	1549.5	1559.5	1556.2	1574.6	1583.0	1557.8	1577.9	1557.8	1539.4	1529.4	1547.8
17.5°	1554.5	1569.6	1564.5	1577.9	1562.9	1581.3	1584.6	1576.3	1554.5	1546.1	1554.5
20°	1559.5	1554.5	1561.2	1584.6	1606.4	1588.0	1588.0	1583.0	1562.9	1551.1	1551.1
22.5°	1571.2	1562.9	1572.9	1591.3	1598.0	1626.5	1601.4	1589.7	1556.2	1526.0	1554.5
25°	1594.7	1599.7	1606.4	1599.7	1636.6	1633.2	1629.9	1621.5	1569.6	1571.2	1566.2
27.5°	1639.9	1611.4	1619.8	1660.0	1665.0	1678.4	1661.7	1676.8	1621.5	1623.2	1589.7
30°	1695.2	1665.0	1691.8	1727.0	1725.3	1750.5	1742.1	1745.4	1706.9	1685.1	1639.9
32.5°	1755.5	1752.1	1768.9	1790.7	1799.1	1812.5	1810.8	1810.8	1787.3	1730.4	1738.7
35°	1822.5	1846.0	1866.1	1889.5	1892.9	1909.6	1886.2	1889.5	1866.1	1824.2	1837.6
37.5°	1954.8	1953.2	1974.9	2003.4	2006.8	1993.4	2011.8	2003.4	1971.6	1943.1	1921.3
40°	2108.9	2075.4	2095.5	2162.5	2167.6	2144.1	2142.4	2140.8	2117.3	2055.3	2041.9
42.5°	2243.0	2286.5	2283.2	2304.9	2289.9	2278.1	2320.0	2296.6	2278.1	2212.8	2201.1
45°	2415.5	2428.9	2472.4	2542.8	2470.8	2470.8	2499.2	2480.8	2470.8	2422.2	2377.0
47.5°	2629.9	2641.6	2728.7	2733.8	2686.9	2655.0	2743.8	2747.2	2705.3	2668.4	2613.1
50°	2881.2	2886.2	2964.9	3045.3	2993.4	2933.1	3023.5	3058.7	2964.9	2914.7	2846.0
52.5°	3157.6	3142.5	3207.8	3358.6	3308.3	3289.9	3387.0	3395.4	3268.1	3189.4	3207.8
55°	3475.8	3455.7	3633.3	3735.5	3703.6	3670.1	3713.7	3733.8	3631.6	3502.6	3547.8
57.5°	3887.9	3897.9	3986.7	4087.2	4139.2	4147.5	4167.6	4147.5	4043.7	3913.0	3871.1
60°	4300.0	4330.1	4502.7	4691.9	4708.7	4856.1	4829.3	4728.8	4581.4	4395.4	4403.8
62.5°	4452.4	4427.3	4705.3	5167.7	5561.3	5831.0	5712.1	5355.3	5013.6	4675.2	4700.3
65°	4145.9	4207.8	4586.4	5310.0	6164.3	7231.4	6598.2	5611.6	4921.4	4484.2	4435.6
67.5°	3573.0	3619.9	4100.6	4864.5	6380.4	8092.4	6933.2	5249.7	4340.2	3774.0	3804.1
70°	2489.2	2512.6	2983.3	3985.0	5785.8	7636.8	6254.8	4032.0	2996.7	2388.7	2422.2
72.5°	1001.7	1058.7	1368.6	2400.4	4271.5	5802.5	4211.2	2115.6	1242.9	924.7	839.2
75°	370.2	371.9	437.2	825.8	2028.5	3646.7	1899.6	680.1	397.0	325.0	309.9
77.5°	214.4	212.7	227.8	298.2	588.0	1423.8	539.4	266.3	216.1	194.3	185.9
80°	134.0	132.3	155.8	197.7	258.0	390.3	227.8	165.8	145.7	125.6	125.6
82.5°	85.4	87.1	122.3	145.7	157.5	172.5	132.3	117.3	108.9	72.0	70.4
85°	55.3	50.3	85.4	97.2	87.1	77.1	73.7	62.0	57.0	35.2	38.5
87.5°	25.1	26.8	43.6	48.6	31.8	18.4	18.4	13.4	13.4	8.4	8.4
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)