

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: P479210

Luminaire Tested: **IFLD-S-SA3B-727-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479210
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-727-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

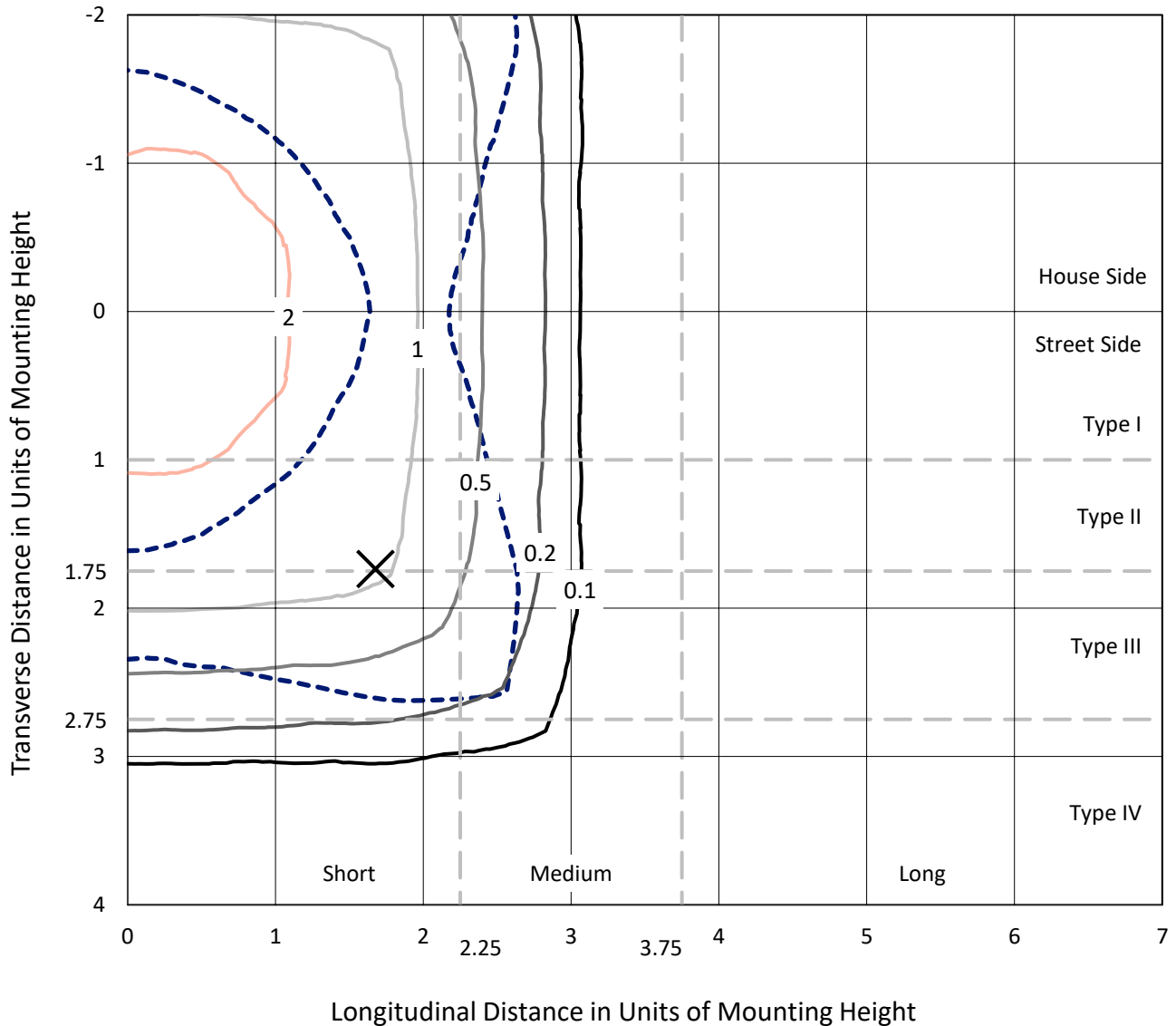
Lumens per Lamp: N/A
Luminaire Lumens: 14364.3 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

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

REPORT NUMBER: P479210
 CATALOG NUMBER: IFLD-S-SA3B-727-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

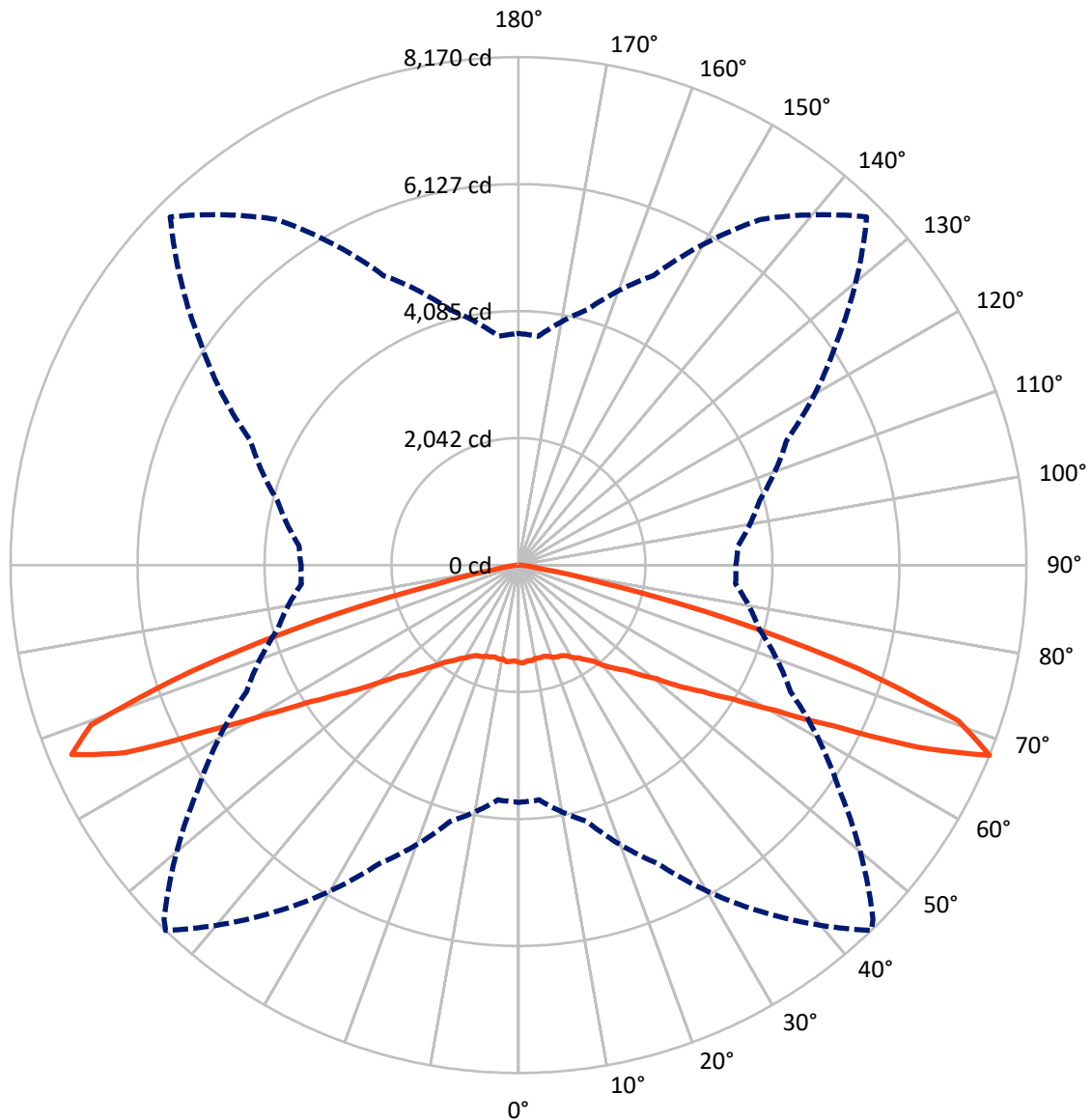
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - N/A

REPORT NUMBER: P479210
CATALOG NUMBER: IFLD-S-SA3B-727-U-5MQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P479210

CATALOG NUMBER: IFLD-S-SA3B-727-U-5MQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7163.7	0.0	7163.7
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	7200.5	0.0	7200.5
	% Fixture	50.1	0.0	50.1
Total	Lumens	14364.3	0.0	14364.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.5	1.0
10°-20°	433.8	3.0
20°-30°	737.7	5.1
30°-40°	1169.6	8.1
40°-50°	1907.1	13.3
50°-60°	3257.1	22.7
60°-70°	4954.0	34.5
70°-80°	1669.8	11.6
80°-90°	86.7	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°	14364.3	100.0
0°-180°	14364.3	100.0

Coefficient of Utilization



REPORT NUMBER: P479210

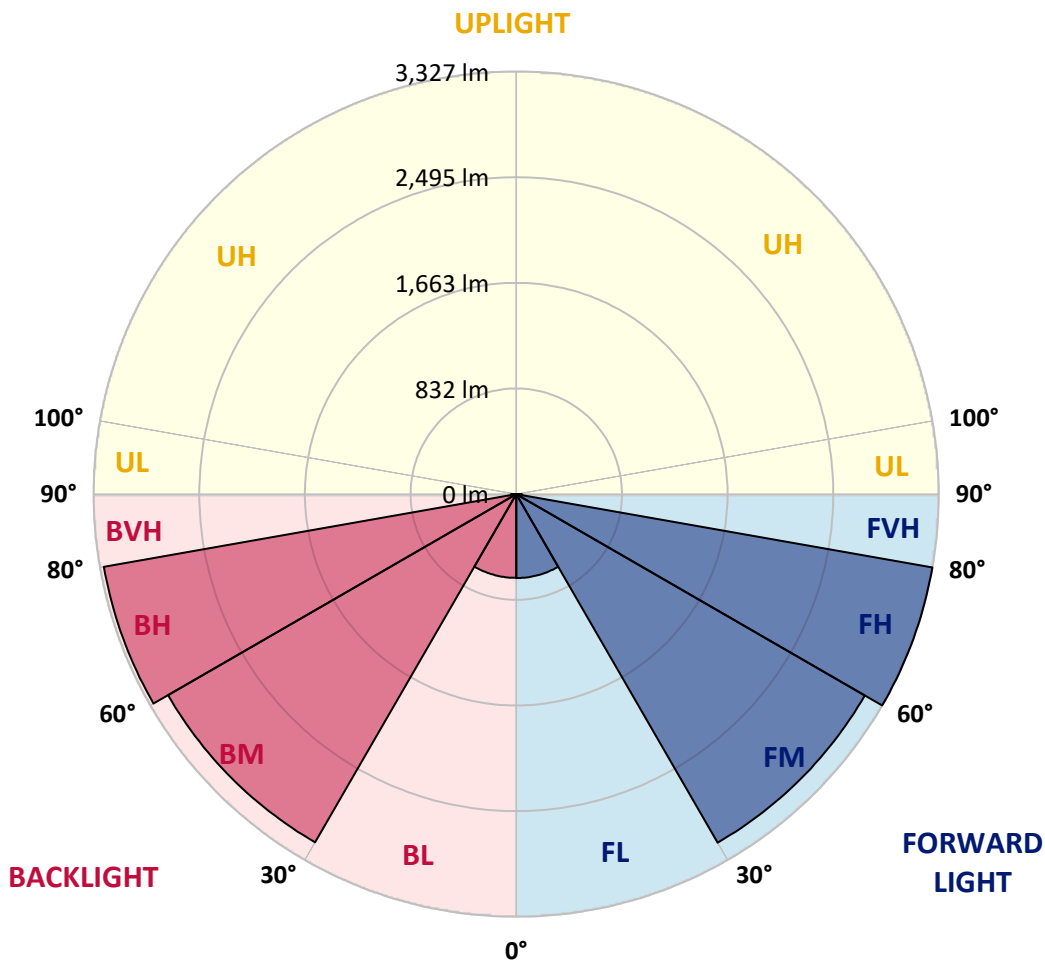
CATALOG NUMBER: IFLD-S-SA3B-727-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	660.6	4.6			
FM (30°-60°)	3168.6	22.1			
FH (60°-80°)	3326.9	23.2			G2/5000
FVH (80°-90°)	44.3	0.3			G1/100
BL (0°-30°)	659.3	4.6	B2/1000		
BM (30°-60°)	3165.2	22.0	B3/5000		
BH (60°-80°)	3296.9	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





REPORT NUMBER: P479210
 CATALOG NUMBER: IFLD-S-SA3B-727-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1569.0	1569.0	1569.0	1569.0	1569.0	1569.0	1569.0	1569.0	1569.0	1569.0	1569.0
2.5°	1533.0	1551.0	1564.1	1562.5	1567.4	1572.3	1565.8	1575.6	1569.0	1580.5	1587.1
5°	1562.5	1557.6	1559.2	1549.4	1572.3	1546.1	1546.1	1559.2	1575.6	1555.9	1567.4
7.5°	1544.5	1541.2	1533.0	1547.7	1552.7	1552.7	1565.8	1541.2	1569.0	1575.6	1577.2
10°	1524.8	1506.7	1531.3	1546.1	1549.4	1523.1	1534.6	1541.2	1533.0	1541.2	1546.1
12.5°	1508.4	1518.2	1518.2	1518.2	1513.3	1531.3	1542.8	1541.2	1524.8	1539.5	1513.3
15°	1506.7	1501.8	1516.6	1529.7	1521.5	1524.8	1529.7	1544.5	1513.3	1519.9	1519.9
17.5°	1505.1	1511.7	1516.6	1514.9	1542.8	1542.8	1537.9	1528.1	1552.7	1539.5	1521.5
20°	1511.7	1506.7	1519.9	1524.8	1544.5	1583.8	1569.0	1560.8	1547.7	1531.3	1531.3
22.5°	1519.9	1516.6	1534.6	1555.9	1593.6	1603.5	1601.8	1592.0	1569.0	1549.4	1546.1
25°	1549.4	1519.9	1539.5	1580.5	1593.6	1613.3	1626.4	1613.3	1582.2	1587.1	1557.6
27.5°	1593.6	1588.7	1615.0	1642.8	1631.4	1649.4	1637.9	1647.7	1649.4	1624.8	1595.3
30°	1646.1	1631.4	1647.7	1701.9	1706.8	1726.4	1706.8	1680.5	1688.7	1667.4	1652.7
32.5°	1721.5	1716.6	1747.8	1783.8	1790.4	1780.5	1770.7	1785.5	1751.0	1734.6	1708.4
35°	1770.7	1792.0	1829.7	1857.6	1878.9	1869.1	1874.0	1859.2	1867.4	1833.0	1821.5
37.5°	1916.6	1908.4	1916.6	1964.2	1969.1	1964.2	1969.1	1985.5	1974.0	1944.5	1915.0
40°	2054.4	2041.2	2060.9	2115.0	2111.7	2128.1	2095.3	2113.4	2113.4	2057.6	2046.2
42.5°	2157.6	2201.9	2224.9	2269.1	2285.5	2270.8	2264.2	2267.5	2303.6	2238.0	2213.4
45°	2370.8	2369.1	2438.0	2462.6	2416.7	2413.4	2400.3	2439.6	2464.2	2426.5	2416.7
47.5°	2602.0	2613.4	2652.8	2662.6	2690.5	2639.7	2639.7	2644.6	2731.5	2643.0	2597.0
50°	2810.2	2824.9	2903.6	2980.7	2928.2	2874.1	2895.4	2921.7	2969.2	2885.6	2846.3
52.5°	3062.7	3143.0	3195.5	3236.5	3274.2	3236.5	3187.3	3216.8	3310.2	3198.8	3149.6
55°	3426.7	3490.6	3539.8	3615.2	3646.4	3595.5	3590.6	3587.3	3639.8	3521.7	3454.5
57.5°	3833.3	3807.0	3885.7	4002.1	4115.3	4066.1	4051.3	4054.6	4067.7	3900.5	3849.7
60°	4338.2	4367.8	4461.2	4562.9	4682.5	4751.4	4654.7	4598.9	4610.4	4382.5	4303.8
62.5°	4626.8	4692.4	4903.9	5253.1	5494.1	5708.9	5723.7	5361.3	5118.7	4676.0	4341.5
65°	4487.4	4477.6	4876.0	5522.0	6435.2	7059.9	6966.4	6087.6	5240.0	4536.6	4087.4
67.5°	3816.9	3790.6	4272.7	5297.4	6805.8	8169.9	8063.3	6292.6	4830.1	4013.6	3505.4
70°	2459.3	2452.8	2975.8	4038.2	6076.2	7500.9	7540.3	5715.5	3931.6	2939.7	2436.4
72.5°	893.6	947.7	1251.0	2170.8	4126.7	5738.4	5763.0	4231.7	2260.9	1359.2	1001.8
75°	329.5	339.4	395.1	705.0	1880.6	3523.4	3615.2	2052.7	803.4	442.7	360.7
77.5°	190.2	191.8	211.5	262.3	557.4	1375.6	1431.3	623.0	311.5	236.1	218.1
80°	129.5	127.9	149.2	170.5	223.0	390.2	414.8	260.7	196.7	164.0	137.7
82.5°	75.4	80.3	109.8	121.3	136.1	172.2	175.4	162.3	147.6	121.3	90.2
85°	45.9	37.7	60.7	67.2	78.7	77.1	77.1	88.5	95.1	85.3	50.8
87.5°	11.5	11.5	14.8	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



REPORT NUMBER: P479210
 CATALOG NUMBER: IFLD-S-SA3B-727-U-5MQ

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1569.0	1569.0	1569.0	1569.0	1569.0	1569.0	1569.0	1569.0	1569.0	1569.0	1569.0
2.5°	1572.3	1567.4	1570.7	1588.7	1577.2	1542.8	1551.0	1569.0	1554.3	1546.1	1544.5
5°	1565.8	1575.6	1564.1	1567.4	1578.9	1551.0	1555.9	1578.9	1569.0	1572.3	1554.3
7.5°	1567.4	1572.3	1562.5	1547.7	1547.7	1570.7	1557.6	1560.8	1546.1	1570.7	1537.9
10°	1557.6	1544.5	1533.0	1541.2	1537.9	1531.3	1526.4	1536.3	1521.5	1542.8	1519.9
12.5°	1528.1	1531.3	1528.1	1524.8	1531.3	1547.7	1521.5	1524.8	1501.8	1505.1	1516.6
15°	1516.6	1526.4	1523.1	1541.2	1549.4	1524.8	1544.5	1524.8	1506.7	1496.9	1514.9
17.5°	1521.5	1536.3	1531.3	1544.5	1529.7	1547.7	1551.0	1542.8	1521.5	1513.3	1521.5
20°	1526.4	1521.5	1528.1	1551.0	1572.3	1554.3	1554.3	1549.4	1529.7	1518.2	1518.2
22.5°	1537.9	1529.7	1539.5	1557.6	1564.1	1592.0	1567.4	1555.9	1523.1	1493.6	1521.5
25°	1560.8	1565.8	1572.3	1565.8	1601.8	1598.6	1595.3	1587.1	1536.3	1537.9	1533.0
27.5°	1605.1	1577.2	1585.4	1624.8	1629.7	1642.8	1626.4	1641.2	1587.1	1588.7	1555.9
30°	1659.2	1629.7	1655.9	1690.4	1688.7	1713.3	1705.1	1708.4	1670.7	1649.4	1605.1
32.5°	1718.2	1715.0	1731.4	1752.7	1760.9	1774.0	1772.4	1772.4	1749.4	1693.7	1701.9
35°	1783.8	1806.8	1826.5	1849.4	1852.7	1869.1	1846.1	1849.4	1826.5	1785.5	1798.6
37.5°	1913.4	1911.7	1933.0	1960.9	1964.2	1951.1	1969.1	1960.9	1929.7	1901.9	1880.6
40°	2064.2	2031.4	2051.1	2116.7	2121.6	2098.6	2097.0	2095.3	2072.4	2011.7	1998.6
42.5°	2195.4	2238.0	2234.7	2256.0	2241.3	2229.8	2270.8	2247.8	2229.8	2165.8	2154.4
45°	2364.2	2377.3	2420.0	2488.8	2418.3	2418.3	2446.2	2428.2	2418.3	2370.8	2326.5
47.5°	2574.1	2585.6	2670.8	2675.7	2629.8	2598.7	2685.6	2688.9	2647.9	2611.8	2557.7
50°	2820.0	2824.9	2902.0	2980.7	2929.9	2870.8	2959.4	2993.8	2902.0	2852.8	2785.6
52.5°	3090.5	3075.8	3139.7	3287.3	3238.1	3220.1	3315.2	3323.4	3198.8	3121.7	3139.7
55°	3402.1	3382.4	3556.2	3656.2	3625.0	3592.2	3634.9	3654.6	3554.5	3428.3	3472.6
57.5°	3805.4	3815.2	3902.1	4000.5	4051.3	4059.5	4079.2	4059.5	3957.9	3830.0	3789.0
60°	4208.7	4238.2	4407.1	4592.4	4608.8	4753.0	4726.8	4628.4	4484.2	4302.2	4310.4
62.5°	4357.9	4333.3	4605.5	5058.0	5443.3	5707.3	5590.9	5241.6	4907.2	4576.0	4600.6
65°	4057.9	4118.5	4489.1	5197.4	6033.5	7077.9	6458.2	5492.5	4817.0	4389.1	4341.5
67.5°	3497.2	3543.1	4013.6	4761.2	6245.0	7920.7	6786.1	5138.3	4248.1	3693.9	3723.4
70°	2436.4	2459.3	2920.0	3900.5	5663.0	7474.7	6122.1	3946.4	2933.2	2338.0	2370.8
72.5°	980.4	1036.2	1339.5	2349.5	4180.8	5679.4	4121.8	2070.7	1216.5	905.0	821.4
75°	362.3	364.0	427.9	808.3	1985.5	3569.3	1859.2	665.7	388.6	318.1	303.3
77.5°	209.9	208.2	223.0	291.8	575.5	1393.6	527.9	260.7	211.5	190.2	182.0
80°	131.2	129.5	152.5	193.5	252.5	382.0	223.0	162.3	142.6	123.0	123.0
82.5°	83.6	85.3	119.7	142.6	154.1	168.9	129.5	114.8	106.6	70.5	68.9
85°	54.1	49.2	83.6	95.1	85.3	75.4	72.1	60.7	55.7	34.4	37.7
87.5°	24.6	26.2	42.6	47.5	31.2	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)