

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: P479463

Luminaire Tested: **IFLD-M-SA4A-827-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479463
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-827-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

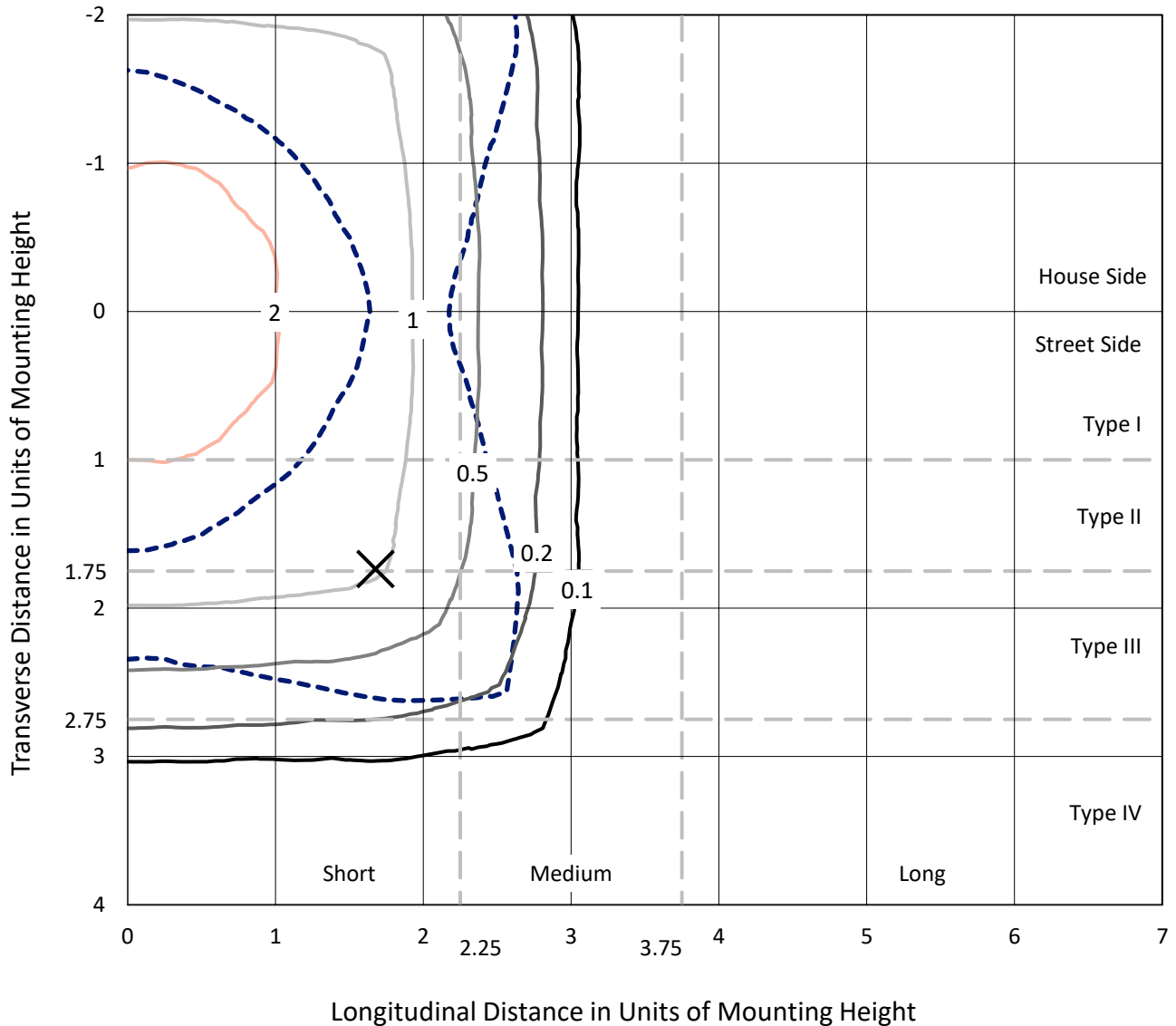
Lumens per Lamp: N/A
Luminaire Lumens: 13703.1 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 128.6
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: P479463
 CATALOG NUMBER: IFLD-M-SA4A-827-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

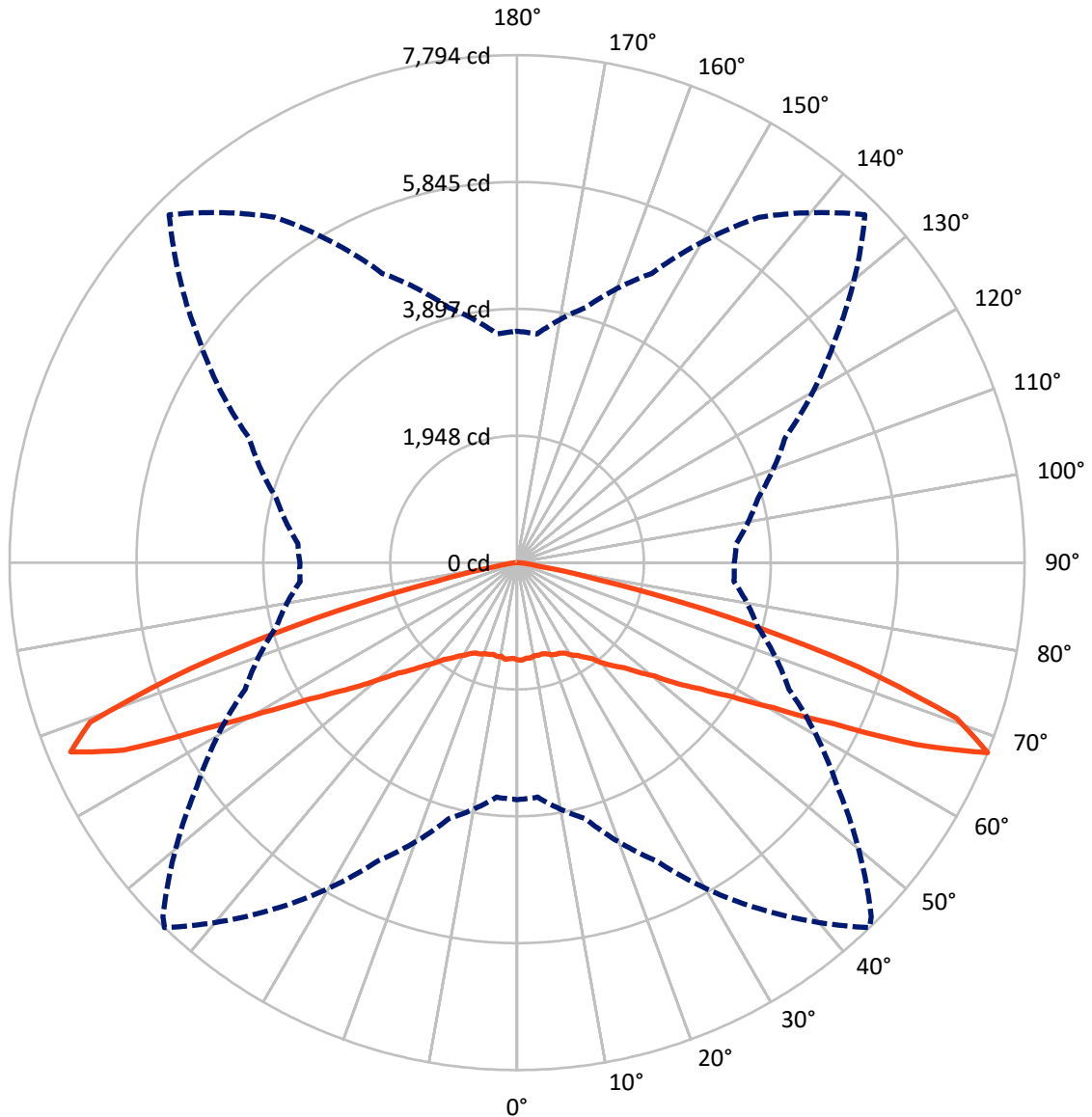
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - N/A

REPORT NUMBER: P479463
CATALOG NUMBER: IFLD-M-SA4A-827-U-5MQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P479463

CATALOG NUMBER: IFLD-M-SA4A-827-U-5MQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6834.0	0.0	6834.0
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	6869.1	0.0	6869.1
	% Fixture	50.1	0.0	50.1
Total	Lumens	13703.1	0.0	13703.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.6	1.0
10°-20°	413.8	3.0
20°-30°	703.7	5.1
30°-40°	1115.8	8.1
40°-50°	1819.3	13.3
50°-60°	3107.2	22.7
60°-70°	4726.0	34.5
70°-80°	1593.0	11.6
80°-90°	82.7	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°	13703.1	100.0
0°-180°	13703.1	100.0

Coefficient of Utilization



REPORT NUMBER: P479463

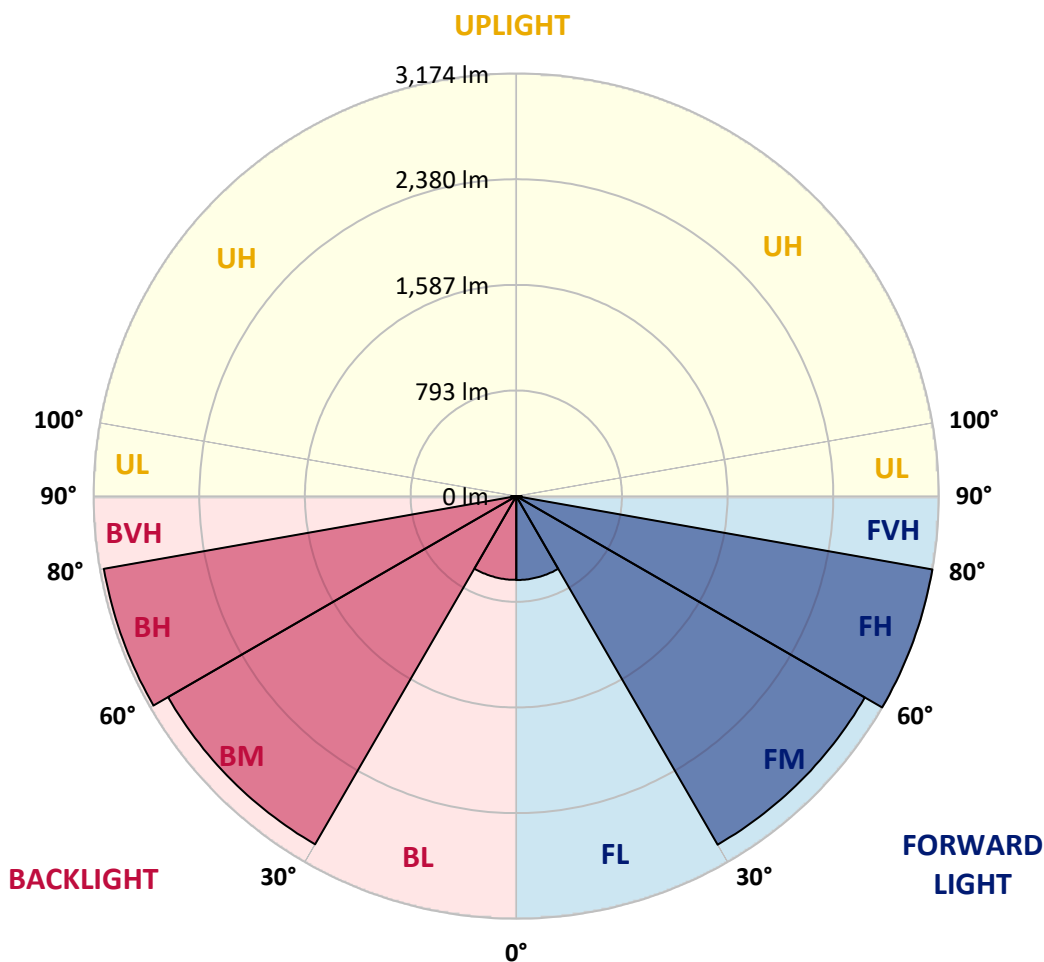
CATALOG NUMBER: IFLD-M-SA4A-827-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	630.2	4.6			
FM (30°-60°)	3022.8	22.1			
FH (60°-80°)	3173.8	23.2			G2/5000
FVH (80°-90°)	42.3	0.3			G1/100
BL (0°-30°)	628.9	4.6	B2/1000		
BM (30°-60°)	3019.5	22.0	B3/5000		
BH (60°-80°)	3145.2	23.0	B4/5000		G2/5000
BVH (80°-90°)	40.4	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: P479463
 CATALOG NUMBER: IFLD-M-SA4A-827-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1496.8	1496.8	1496.8	1496.8	1496.8	1496.8	1496.8	1496.8	1496.8	1496.8	1496.8
2.5°	1462.4	1479.6	1492.1	1490.6	1495.3	1500.0	1493.7	1503.1	1496.8	1507.8	1514.0
5°	1490.6	1485.9	1487.4	1478.1	1500.0	1474.9	1474.9	1487.4	1503.1	1484.3	1495.3
7.5°	1473.4	1470.2	1462.4	1476.5	1481.2	1481.2	1493.7	1470.2	1496.8	1503.1	1504.6
10°	1454.6	1437.4	1460.9	1474.9	1478.1	1453.0	1464.0	1470.2	1462.4	1470.2	1474.9
12.5°	1439.0	1448.3	1448.3	1448.3	1443.6	1460.9	1471.8	1470.2	1454.6	1468.7	1443.6
15°	1437.4	1432.7	1446.8	1459.3	1451.5	1454.6	1459.3	1473.4	1443.6	1449.9	1449.9
17.5°	1435.8	1442.1	1446.8	1445.2	1471.8	1471.8	1467.1	1457.7	1481.2	1468.7	1451.5
20°	1442.1	1437.4	1449.9	1454.6	1473.4	1510.9	1496.8	1489.0	1476.5	1460.9	1460.9
22.5°	1449.9	1446.8	1464.0	1484.3	1520.3	1529.7	1528.1	1518.7	1496.8	1478.1	1474.9
25°	1478.1	1449.9	1468.7	1507.8	1520.3	1539.1	1551.6	1539.1	1509.3	1514.0	1485.9
27.5°	1520.3	1515.6	1540.6	1567.2	1556.3	1573.5	1562.5	1571.9	1573.5	1550.0	1521.9
30°	1570.3	1556.3	1571.9	1623.5	1628.2	1647.0	1628.2	1603.2	1611.0	1590.7	1576.6
32.5°	1642.3	1637.6	1667.3	1701.7	1708.0	1698.6	1689.2	1703.3	1670.4	1654.8	1629.8
35°	1689.2	1709.5	1745.5	1772.1	1792.4	1783.1	1787.7	1773.7	1781.5	1748.6	1737.7
37.5°	1828.4	1820.6	1828.4	1873.8	1878.5	1873.8	1878.5	1894.1	1883.2	1855.0	1826.8
40°	1959.8	1947.3	1966.1	2017.7	2014.5	2030.2	1998.9	2016.1	2016.1	1962.9	1952.0
42.5°	2058.3	2100.6	2122.5	2164.7	2180.3	2166.3	2160.0	2163.1	2197.5	2135.0	2111.5
45°	2261.7	2260.1	2325.8	2349.3	2305.5	2302.3	2289.8	2327.4	2350.8	2314.8	2305.5
47.5°	2482.2	2493.1	2530.7	2540.1	2566.7	2518.2	2518.2	2522.9	2605.8	2521.3	2477.5
50°	2680.8	2694.9	2770.0	2843.5	2793.4	2741.8	2762.2	2787.2	2832.6	2752.8	2715.2
52.5°	2921.7	2998.3	3048.4	3087.5	3123.5	3087.5	3040.6	3068.7	3157.9	3051.5	3004.6
55°	3268.9	3329.9	3376.9	3448.8	3478.5	3430.0	3425.3	3422.2	3472.3	3359.6	3295.5
57.5°	3656.8	3631.8	3706.9	3817.9	3925.8	3878.9	3864.8	3868.0	3880.5	3721.0	3672.5
60°	4138.6	4166.7	4255.9	4352.8	4467.0	4532.7	4440.4	4387.2	4398.2	4180.8	4105.7
62.5°	4413.8	4476.4	4678.2	5011.3	5241.2	5446.1	5460.2	5114.5	4883.1	4460.8	4141.7
65°	4280.9	4271.5	4651.6	5267.8	6139.0	6734.9	6645.8	5807.4	4998.8	4327.8	3899.3
67.5°	3641.2	3616.2	4076.0	5053.5	6492.5	7793.8	7692.2	6002.9	4607.8	3828.9	3344.0
70°	2346.1	2339.9	2838.8	3852.3	5796.5	7155.7	7193.2	5452.4	3750.7	2804.4	2324.2
72.5°	852.4	904.0	1193.4	2070.8	3936.8	5474.3	5497.7	4036.9	2156.9	1296.6	955.7
75°	314.4	323.8	376.9	672.6	1794.0	3361.2	3448.8	1958.2	766.4	422.3	344.1
77.5°	181.4	183.0	201.8	250.3	531.8	1312.3	1365.4	594.4	297.2	225.2	208.0
80°	123.6	122.0	142.3	162.7	212.7	372.3	395.7	248.7	187.7	156.4	131.4
82.5°	71.9	76.6	104.8	115.7	129.8	164.2	167.4	154.8	140.8	115.7	86.0
85°	43.8	36.0	57.9	64.1	75.1	73.5	73.5	84.5	90.7	81.3	48.5
87.5°	10.9	10.9	14.1	15.6	20.3	15.6	17.2	32.8	43.8	40.7	25.0
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: P479463
 CATALOG NUMBER: IFLD-M-SA4A-827-U-5MQ

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1496.8	1496.8	1496.8	1496.8	1496.8	1496.8	1496.8	1496.8	1496.8	1496.8	1496.8
2.5°	1500.0	1495.3	1498.4	1515.6	1504.6	1471.8	1479.6	1496.8	1482.7	1474.9	1473.4
5°	1493.7	1503.1	1492.1	1495.3	1506.2	1479.6	1484.3	1506.2	1496.8	1500.0	1482.7
7.5°	1495.3	1500.0	1490.6	1476.5	1476.5	1498.4	1485.9	1489.0	1474.9	1498.4	1467.1
10°	1485.9	1473.4	1462.4	1470.2	1467.1	1460.9	1456.2	1465.5	1451.5	1471.8	1449.9
12.5°	1457.7	1460.9	1457.7	1454.6	1460.9	1476.5	1451.5	1454.6	1432.7	1435.8	1446.8
15°	1446.8	1456.2	1453.0	1470.2	1478.1	1454.6	1473.4	1454.6	1437.4	1428.0	1445.2
17.5°	1451.5	1465.5	1460.9	1473.4	1459.3	1476.5	1479.6	1471.8	1451.5	1443.6	1451.5
20°	1456.2	1451.5	1457.7	1479.6	1500.0	1482.7	1482.7	1478.1	1459.3	1448.3	1448.3
22.5°	1467.1	1459.3	1468.7	1485.9	1492.1	1518.7	1495.3	1484.3	1453.0	1424.9	1451.5
25°	1489.0	1493.7	1500.0	1493.7	1528.1	1525.0	1521.9	1514.0	1465.5	1467.1	1462.4
27.5°	1531.2	1504.6	1512.5	1550.0	1554.7	1567.2	1551.6	1565.6	1514.0	1515.6	1484.3
30°	1582.9	1554.7	1579.7	1612.6	1611.0	1634.5	1626.6	1629.8	1593.8	1573.5	1531.2
32.5°	1639.2	1636.0	1651.7	1672.0	1679.8	1692.3	1690.8	1690.8	1668.9	1615.7	1623.5
35°	1701.7	1723.6	1742.4	1764.3	1767.4	1783.1	1761.2	1764.3	1742.4	1703.3	1715.8
37.5°	1825.3	1823.7	1844.1	1870.6	1873.8	1861.3	1878.5	1870.6	1840.9	1814.3	1794.0
40°	1969.2	1937.9	1956.7	2019.2	2023.9	2002.0	2000.5	1998.9	1977.0	1919.1	1906.6
42.5°	2094.3	2135.0	2131.8	2152.2	2138.1	2127.2	2166.3	2144.4	2127.2	2066.2	2055.2
45°	2255.4	2267.9	2308.6	2374.3	2307.0	2307.0	2333.6	2316.4	2307.0	2261.7	2219.4
47.5°	2455.6	2466.6	2547.9	2552.6	2508.8	2479.1	2562.0	2565.1	2526.0	2491.6	2440.0
50°	2690.2	2694.9	2768.4	2843.5	2795.0	2738.7	2823.2	2856.0	2768.4	2721.5	2657.4
52.5°	2948.3	2934.2	2995.2	3136.0	3089.1	3071.9	3162.6	3170.4	3051.5	2978.0	2995.2
55°	3245.5	3226.7	3392.5	3487.9	3458.2	3426.9	3467.6	3486.3	3390.9	3270.5	3312.7
57.5°	3630.2	3639.6	3722.5	3816.4	3864.8	3872.7	3891.4	3872.7	3775.7	3653.7	3614.6
60°	4015.0	4043.2	4204.3	4381.0	4396.6	4534.3	4509.2	4415.4	4277.8	4104.2	4112.0
62.5°	4157.3	4133.9	4393.5	4825.2	5192.8	5444.6	5333.5	5000.4	4681.3	4365.4	4388.8
65°	3871.1	3929.0	4282.5	4958.1	5755.8	6752.1	6160.9	5239.7	4595.3	4187.0	4141.7
67.5°	3336.2	3380.0	3828.9	4542.1	5957.6	7556.1	6473.7	4901.8	4052.5	3523.9	3552.0
70°	2324.2	2346.1	2785.6	3721.0	5402.3	7130.6	5840.3	3764.7	2798.1	2230.4	2261.7
72.5°	935.3	988.5	1277.9	2241.3	3988.4	5418.0	3932.1	1975.4	1160.5	863.4	783.6
75°	345.7	347.2	408.2	771.1	1894.1	3405.0	1773.7	635.0	370.7	303.4	289.4
77.5°	200.2	198.6	212.7	278.4	549.0	1329.5	503.6	248.7	201.8	181.4	173.6
80°	125.1	123.6	145.5	184.6	240.9	364.4	212.7	154.8	136.1	117.3	117.3
82.5°	79.8	81.3	114.2	136.1	147.0	161.1	123.6	109.5	101.7	67.3	65.7
85°	51.6	46.9	79.8	90.7	81.3	71.9	68.8	57.9	53.2	32.8	36.0
87.5°	23.5	25.0	40.7	45.4	29.7	17.2	17.2	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)