

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: P478819

Luminaire Tested: **IFLD-S-SA3A-727-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478819
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-727-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

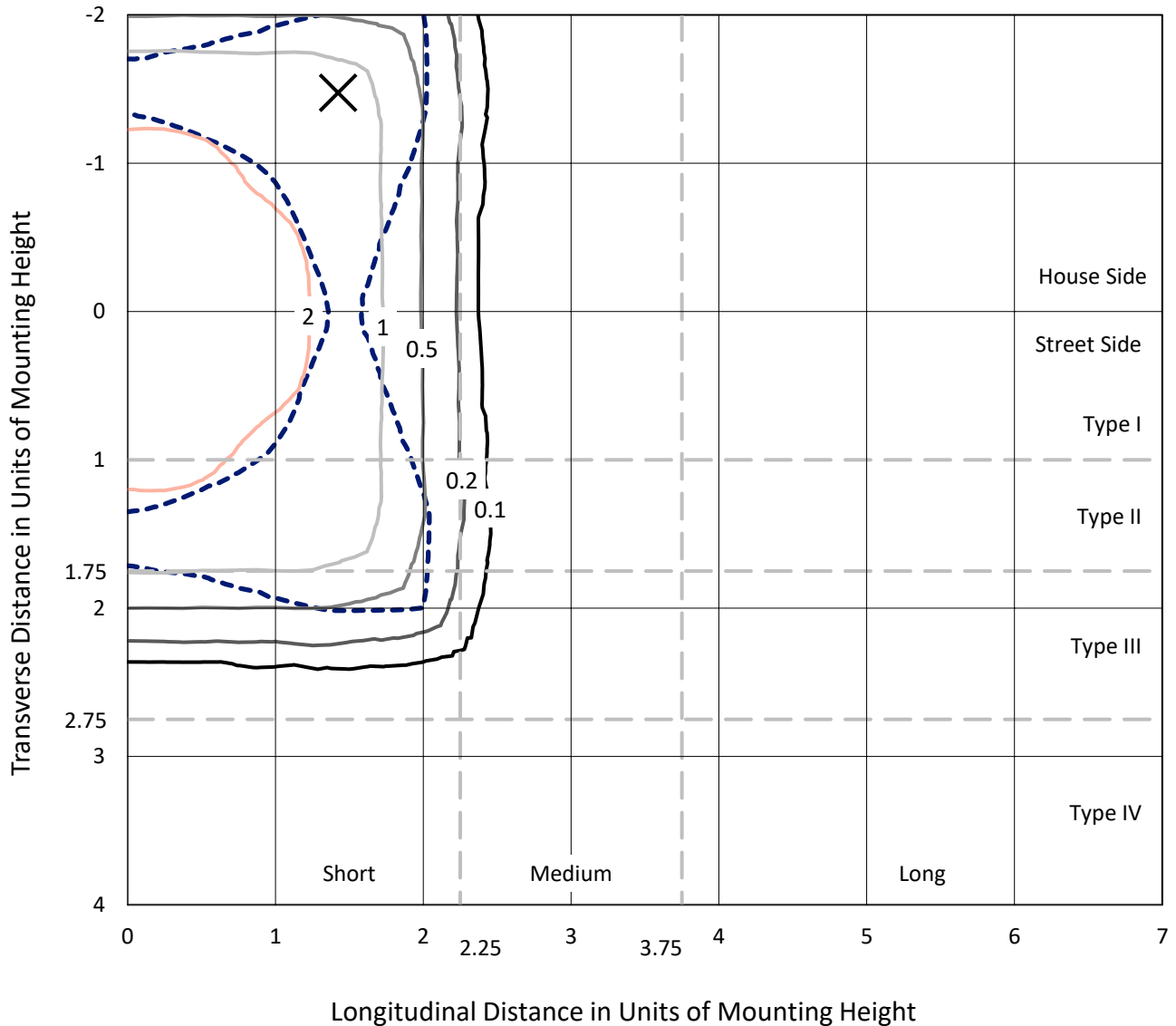
Lumens per Lamp: N/A
Luminaire Lumens: 11476 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 94.8
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

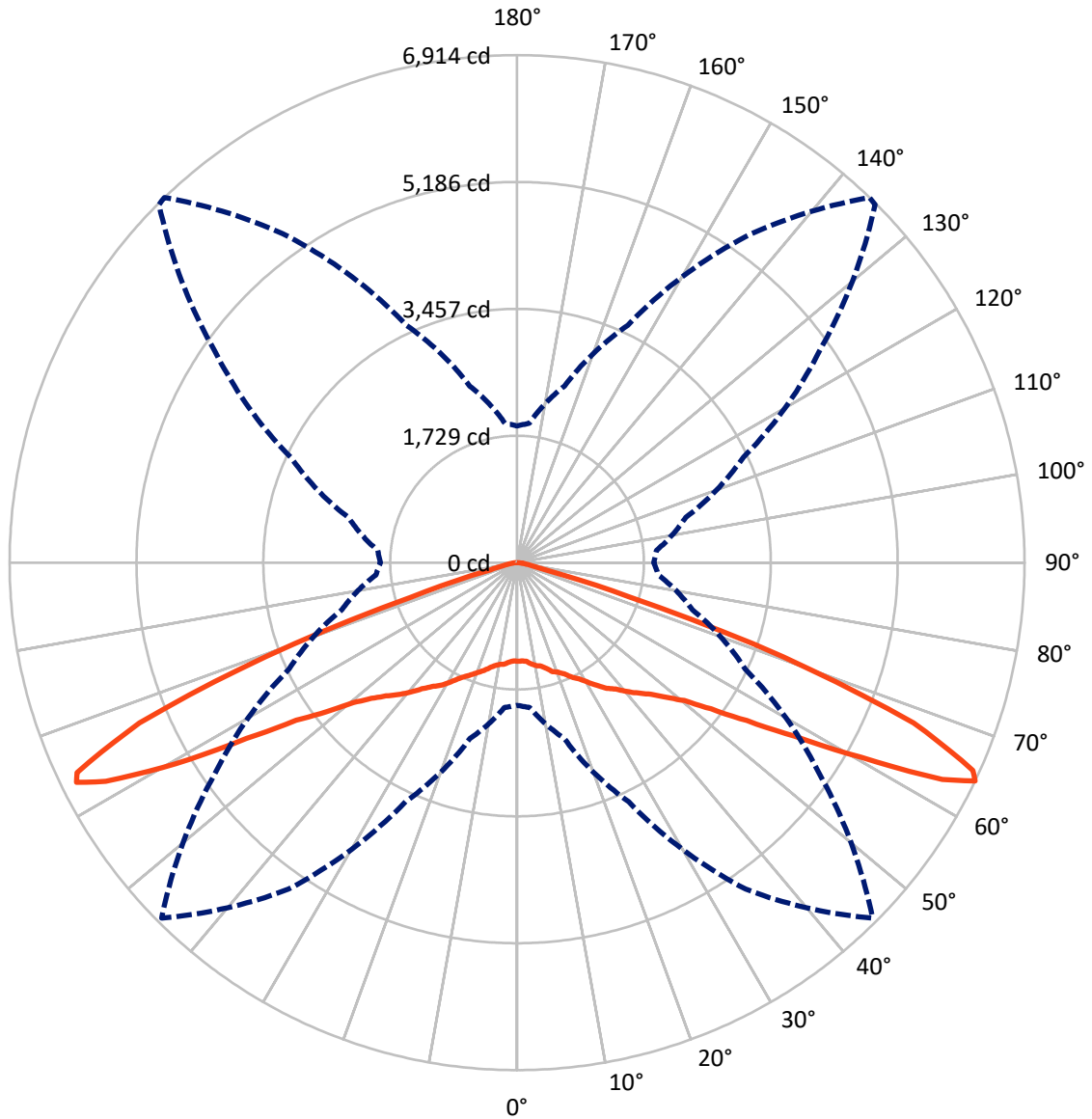
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5743.5	0.0	5743.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5732.5	0.0	5732.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11476.0	0.0	11476.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.0	1.2
10°-20°	425.5	3.7
20°-30°	799.7	7.0
30°-40°	1318.8	11.5
40°-50°	2062.6	18.0
50°-60°	3332.6	29.0
60°-70°	3000.8	26.1
70°-80°	355.5	3.1
80°-90°	48.7	0.4
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°	11476.0	100.0
0°-180°	11476.0	100.0

Coefficient of Utilization



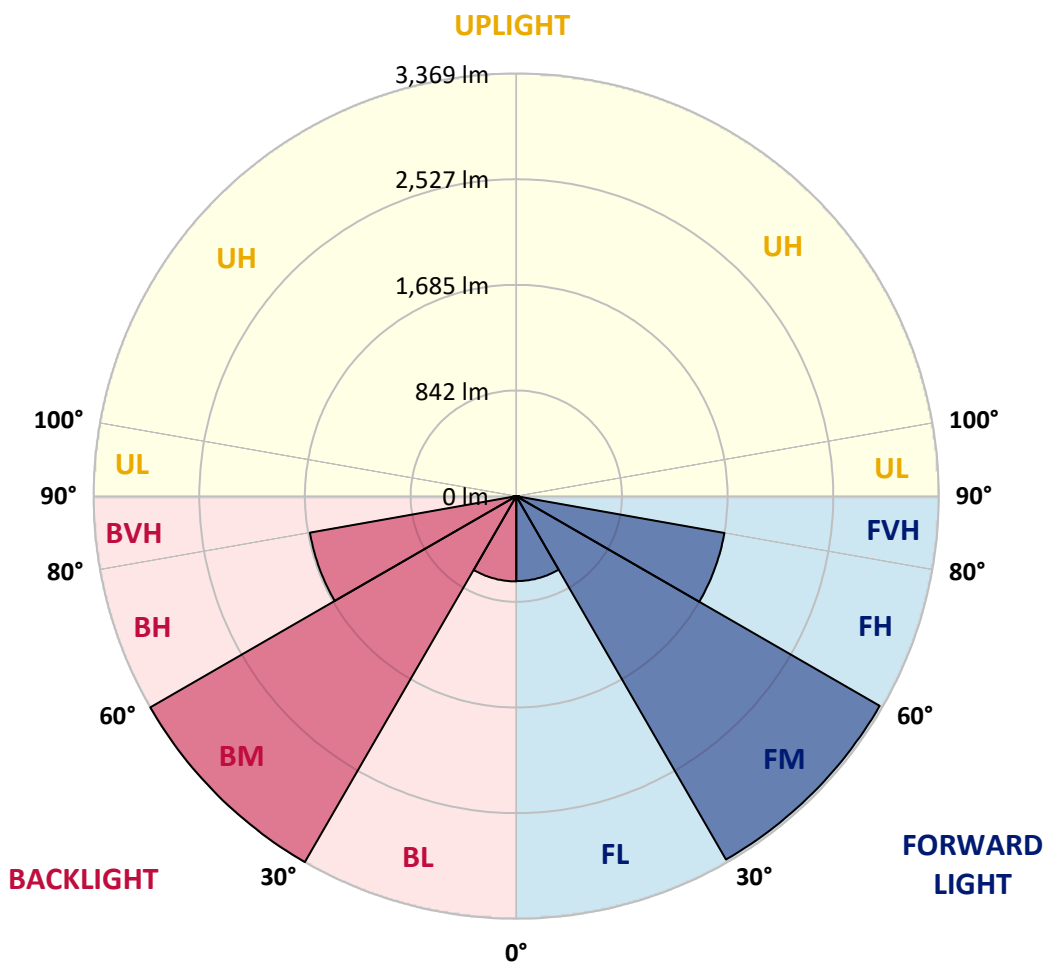
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	677.3	5.9			
FM (30°-60°)	3344.9	29.1			
FH (60°-80°)	1685.4	14.7			G1/1800
FVH (80°-90°)	25.0	0.2			G1/100
BL (0°-30°)	679.9	5.9	B2/1000		
BM (30°-60°)	3369.0	29.4	B3/5000		
BH (60°-80°)	1670.8	14.6	B3/2500		G1/1800
BVH (80°-90°)	23.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1343.6	1343.6	1343.6	1343.6	1343.6	1343.6	1343.6	1343.6	1343.6	1343.6	1343.6
2.5°	1327.8	1330.4	1354.1	1344.9	1352.8	1338.3	1348.9	1371.2	1344.9	1364.7	1371.2
5°	1342.3	1346.2	1346.2	1355.5	1360.7	1358.1	1364.7	1355.5	1380.5	1369.9	1385.7
7.5°	1394.9	1388.4	1377.8	1385.7	1387.0	1393.6	1400.2	1412.0	1408.1	1398.9	1414.7
10°	1404.1	1398.9	1414.7	1416.0	1409.4	1404.1	1410.7	1410.7	1422.6	1425.2	1425.2
12.5°	1419.9	1425.2	1423.9	1434.4	1435.7	1431.8	1442.3	1462.0	1456.8	1460.7	1451.5
15°	1480.5	1473.9	1472.6	1483.1	1500.2	1475.2	1493.6	1492.3	1487.0	1494.9	1473.9
17.5°	1533.1	1512.1	1521.3	1538.4	1531.8	1537.1	1560.7	1539.7	1545.0	1535.7	1529.2
20°	1579.2	1562.1	1563.4	1570.0	1570.0	1585.7	1595.0	1587.1	1581.8	1580.5	1583.1
22.5°	1630.5	1610.7	1612.1	1639.7	1648.9	1643.6	1637.1	1650.2	1652.9	1642.3	1654.2
25°	1668.7	1689.7	1696.3	1709.4	1689.7	1704.2	1698.9	1723.9	1739.7	1718.7	1733.1
27.5°	1768.7	1759.5	1776.6	1775.2	1791.0	1776.6	1785.8	1793.7	1800.2	1801.6	1795.0
30°	1858.2	1862.1	1845.0	1891.1	1854.2	1877.9	1893.7	1897.6	1905.5	1905.5	1885.8
32.5°	1952.9	1945.0	1972.6	1962.1	1955.5	1974.0	1956.9	2010.8	1979.2	1997.6	1975.3
35°	2059.5	2059.5	2070.0	2099.0	2059.5	2047.7	2079.2	2101.6	2101.6	2068.7	2076.6
37.5°	2179.2	2168.7	2181.9	2218.7	2188.5	2149.0	2206.9	2216.1	2209.5	2200.3	2184.5
40°	2263.5	2260.8	2287.2	2335.9	2292.4	2284.5	2295.1	2320.1	2328.0	2337.2	2316.1
42.5°	2405.6	2417.4	2493.8	2481.9	2446.4	2418.8	2416.1	2509.6	2487.2	2463.5	2451.7
45°	2616.2	2605.6	2645.1	2646.4	2600.4	2539.8	2553.0	2638.5	2676.7	2624.0	2643.8
47.5°	2783.3	2788.5	2816.2	2872.8	2766.2	2703.0	2751.7	2889.9	2878.0	2858.3	2876.7
50°	3007.0	3030.7	3117.5	3097.8	3003.0	2925.4	3032.0	3162.3	3176.8	3104.4	3091.2
52.5°	3316.2	3353.1	3400.5	3416.3	3325.5	3297.8	3304.4	3466.3	3430.7	3361.0	3316.2
55°	3587.3	3604.4	3691.3	3821.6	3815.0	3682.1	3758.4	3819.0	3674.2	3530.8	3542.6
57.5°	3703.1	3711.0	3953.2	4213.7	4369.0	4399.3	4312.4	4108.5	3763.7	3487.3	3470.2
60°	3414.9	3490.0	3782.1	4370.3	5079.7	5429.7	4852.0	4141.4	3554.4	3218.9	3193.9
62.5°	2729.3	2733.3	3167.5	4059.8	5521.8	6439.1	5058.6	3832.1	2996.5	2616.2	2516.1
64°	1943.7	1980.5	2479.3	3593.9	5429.7	6849.6	5033.6	3428.1	2470.1	1930.5	1860.8
65°	1394.9	1446.3	1927.9	3120.2	5213.9	6800.9	4958.6	3080.7	1997.6	1473.9	1402.8
67.5°	513.2	534.3	756.7	1560.7	3743.9	5795.5	3929.5	1693.7	877.8	625.1	561.9
70°	238.2	239.5	280.3	515.9	1637.1	3875.5	1875.3	635.6	330.3	261.9	243.5
72.5°	175.0	179.0	196.1	238.2	481.6	1641.0	615.9	260.6	193.4	171.1	167.1
75°	142.1	144.8	150.0	172.4	222.4	439.5	250.0	180.3	154.0	138.2	132.9
77.5°	109.2	109.2	121.1	131.6	147.4	205.3	165.8	143.4	125.0	109.2	105.3
80°	79.0	80.3	94.7	102.6	100.0	135.5	119.8	118.4	102.6	85.5	79.0
82.5°	46.1	50.0	68.4	73.7	71.1	80.3	86.9	92.1	80.3	59.2	54.0
85°	26.3	27.6	39.5	40.8	40.8	38.2	50.0	55.3	54.0	36.8	32.9
87.5°	7.9	7.9	10.5	10.5	11.8	13.2	19.7	23.7	26.3	18.4	17.1
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):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	1343.6	1343.6	1343.6	1343.6	1343.6	1343.6	1343.6	1343.6	1343.6	1343.6	1343.6
2.5°	1364.7	1344.9	1346.2	1351.5	1334.4	1341.0	1360.7	1346.2	1342.3	1334.4	1330.4
5°	1358.1	1379.1	1371.2	1373.9	1369.9	1351.5	1348.9	1360.7	1367.3	1355.5	1379.1
7.5°	1404.1	1394.9	1384.4	1388.4	1379.1	1394.9	1405.5	1381.8	1393.6	1387.0	1373.9
10°	1430.5	1413.4	1421.2	1418.6	1412.0	1427.8	1417.3	1414.7	1404.1	1389.7	1410.7
12.5°	1439.7	1459.4	1472.6	1450.2	1454.1	1446.3	1439.7	1439.7	1427.8	1423.9	1427.8
15°	1480.5	1497.6	1492.3	1509.4	1487.0	1494.9	1502.8	1483.1	1493.6	1464.7	1487.0
17.5°	1555.5	1541.0	1559.4	1537.1	1545.0	1560.7	1535.7	1535.7	1543.6	1527.8	1508.1
20°	1602.9	1596.3	1589.7	1591.0	1577.9	1592.3	1584.4	1580.5	1568.6	1573.9	1584.4
22.5°	1647.6	1638.4	1641.0	1645.0	1654.2	1647.6	1643.6	1647.6	1618.6	1645.0	1608.1
25°	1702.9	1727.9	1720.0	1737.1	1710.8	1727.9	1726.6	1701.6	1717.3	1706.8	1698.9
27.5°	1795.0	1781.8	1793.7	1772.6	1791.0	1792.4	1776.6	1818.7	1800.2	1797.6	1792.4
30°	1913.4	1904.2	1896.3	1884.5	1898.9	1887.1	1900.3	1904.2	1887.1	1873.9	1848.9
32.5°	1980.5	2005.5	2014.8	1985.8	1987.1	1993.7	1981.9	1970.0	1980.5	1984.5	1980.5
35°	2075.3	2099.0	2104.2	2081.9	2070.0	2102.9	2079.2	2118.7	2084.5	2085.8	2050.3
37.5°	2185.8	2192.4	2237.2	2212.1	2201.6	2185.8	2229.3	2224.0	2231.9	2168.7	2200.3
40°	2310.8	2334.5	2359.5	2296.4	2295.1	2309.5	2306.9	2337.2	2322.7	2313.5	2291.1
42.5°	2447.7	2497.7	2501.7	2459.6	2433.2	2430.6	2443.8	2510.9	2512.2	2451.7	2425.3
45°	2629.3	2684.6	2670.1	2588.5	2559.6	2555.6	2620.1	2649.1	2674.1	2650.4	2628.0
47.5°	2855.7	2892.5	2882.0	2807.0	2713.5	2739.9	2803.0	2893.8	2867.5	2835.9	2809.6
50°	3097.8	3141.2	3118.9	3043.8	2954.4	2954.4	3032.0	3147.8	3139.9	3078.1	3054.4
52.5°	3366.3	3429.4	3480.7	3374.2	3299.1	3311.0	3433.4	3475.5	3455.7	3412.3	3392.6
55°	3566.3	3687.4	3792.6	3797.9	3801.8	3800.5	3832.1	3874.2	3733.4	3663.7	3592.6
57.5°	3517.6	3746.6	4107.1	4351.9	4424.3	4462.5	4451.9	4257.2	3924.2	3695.2	3718.9
60°	3170.2	3543.9	4125.6	4911.2	5437.6	5385.0	5192.8	4423.0	3819.0	3432.1	3383.4
62.5°	2529.3	2979.4	3816.3	5069.1	6519.3	6503.5	5498.1	4040.0	3182.0	2692.5	2662.2
64°	1905.5	2379.3	3404.4	5028.3	6898.3	6914.1	5420.5	3568.9	2489.8	1905.5	1859.5
65°	1458.1	1897.6	3000.4	4944.1	6816.7	6825.9	5204.7	3082.0	1892.4	1352.8	1302.8
67.5°	580.3	808.0	1627.9	3749.2	5853.4	5828.4	3713.7	1491.0	723.8	471.1	461.9
70°	247.4	307.9	571.1	1776.6	3919.0	3846.6	1598.9	484.3	268.5	225.0	223.7
72.5°	169.8	188.2	244.8	548.8	1629.2	1591.0	455.3	225.0	182.9	168.4	168.4
75°	136.9	150.0	177.7	230.3	431.6	415.8	214.5	165.8	146.1	135.5	134.2
77.5°	106.6	119.8	139.5	159.2	197.4	196.1	143.4	125.0	113.2	105.3	102.6
80°	84.2	97.4	110.5	113.2	129.0	126.3	97.4	98.7	92.1	76.3	75.0
82.5°	57.9	79.0	88.2	80.3	76.3	76.3	69.7	69.7	64.5	47.4	43.4
85°	35.5	52.6	55.3	47.4	35.5	35.5	38.2	36.8	34.2	25.0	23.7
87.5°	18.4	25.0	22.4	18.4	11.8	11.8	10.5	7.9	7.9	6.6	6.6
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)