

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: P478932

Luminaire Tested: **IFLD-S-SA2B-740-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478932
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-740-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

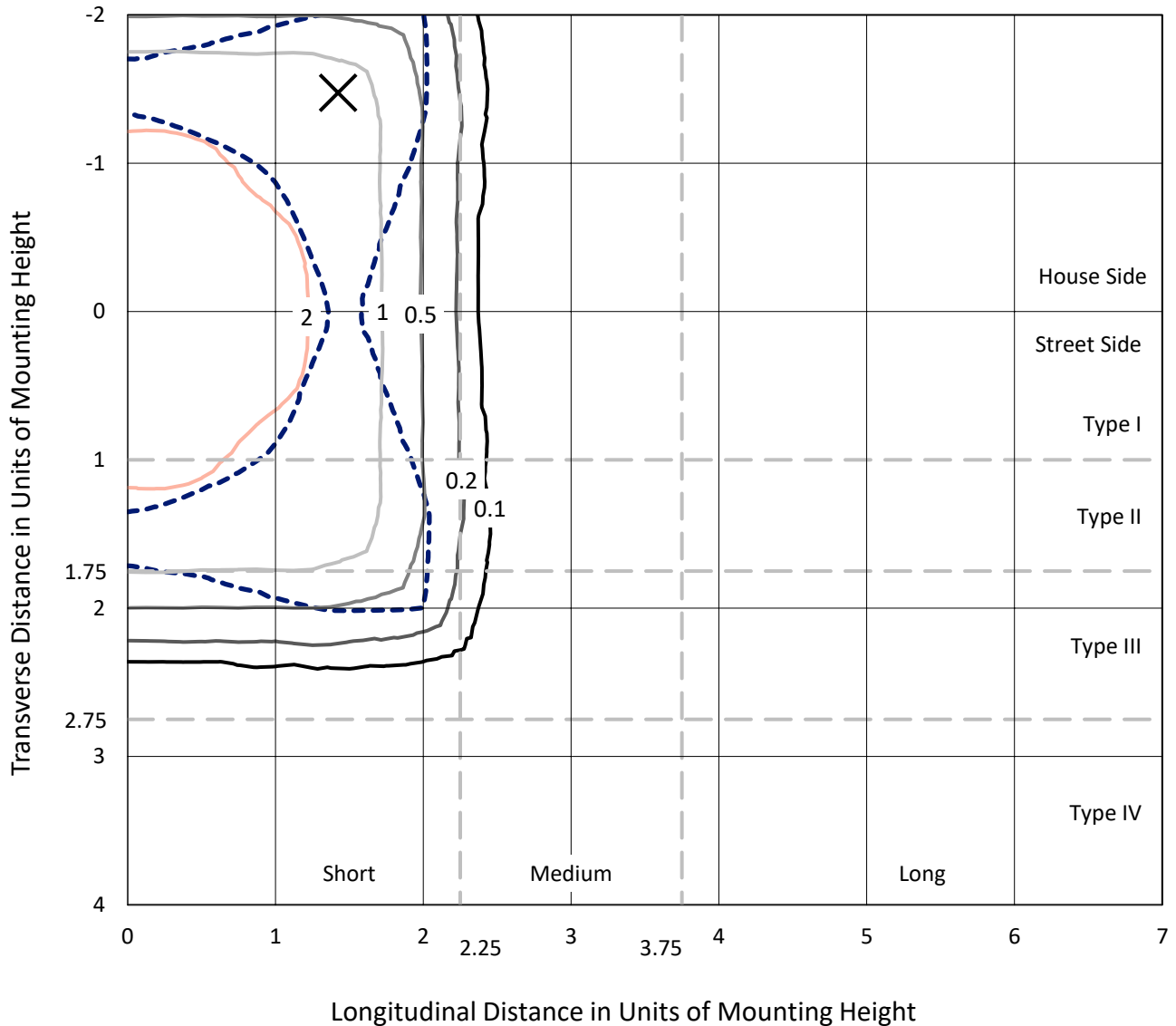
Lumens per Lamp: N/A
Luminaire Lumens: 11387.8 lumens
Efficiency: N/A
Efficacy: 138.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 82.4
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

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Iso-Footcandle Lines of Horizontal Illumination

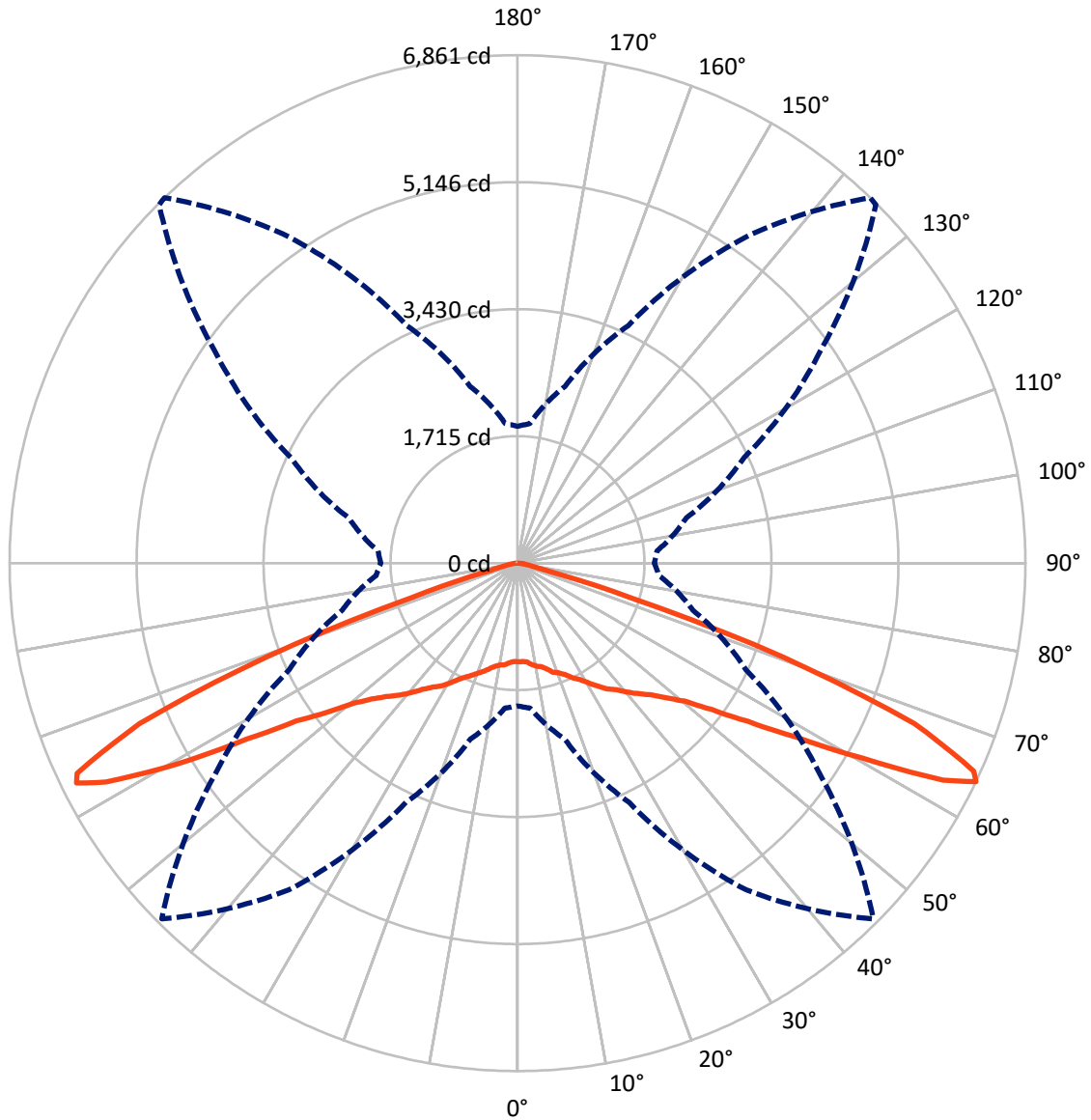
× Max cd
 - - - 1/2 Max cd



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	5699.3	0.0	5699.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5688.5	0.0	5688.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11387.8	0.0	11387.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.0	1.2
10°-20°	422.2	3.7
20°-30°	793.5	7.0
30°-40°	1308.7	11.5
40°-50°	2046.7	18.0
50°-60°	3307.0	29.0
60°-70°	2977.7	26.1
70°-80°	352.7	3.1
80°-90°	48.3	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°	11387.8	100.0
0°-180°	11387.8	100.0

Coefficient of Utilization



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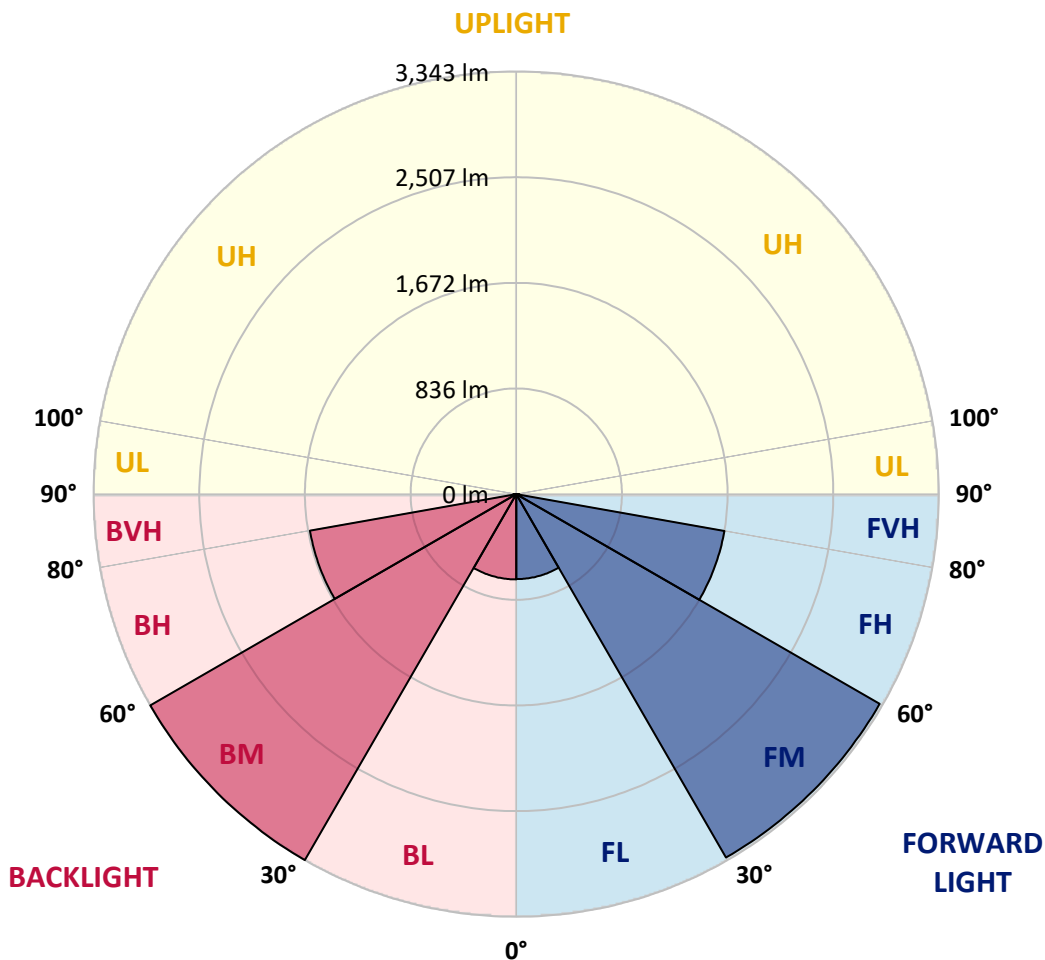
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	672.1	5.9			
FM (30°-60°)	3319.2	29.1			
FH (60°-80°)	1672.4	14.7			G1/1800
FVH (80°-90°)	24.8	0.2			G1/100
BL (0°-30°)	674.7	5.9	B2/1000		
BM (30°-60°)	3343.1	29.4	B3/5000		
BH (60°-80°)	1658.0	14.6	B3/2500		G1/1800
BVH (80°-90°)	23.5	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°	1333.3	1333.3	1333.3	1333.3	1333.3	1333.3	1333.3	1333.3	1333.3	1333.3	1333.3
2.5°	1317.6	1320.2	1343.7	1334.6	1342.4	1328.1	1338.5	1360.7	1334.6	1354.2	1360.7
5°	1332.0	1335.9	1335.9	1345.0	1350.3	1347.6	1354.2	1345.0	1369.8	1359.4	1375.1
7.5°	1384.2	1377.7	1367.2	1375.1	1376.4	1382.9	1389.4	1401.2	1397.3	1388.1	1403.8
10°	1393.3	1388.1	1403.8	1405.1	1398.6	1393.3	1399.9	1399.9	1411.6	1414.2	1414.2
12.5°	1409.0	1414.2	1412.9	1423.4	1424.7	1420.8	1431.2	1450.8	1445.6	1449.5	1440.4
15°	1469.1	1462.6	1461.2	1471.7	1488.7	1463.9	1482.1	1480.8	1475.6	1483.4	1462.6
17.5°	1521.3	1500.4	1509.6	1526.5	1520.0	1525.2	1548.7	1527.8	1533.1	1523.9	1517.4
20°	1567.0	1550.0	1551.4	1557.9	1557.9	1573.6	1582.7	1574.9	1569.6	1568.3	1570.9
22.5°	1618.0	1598.4	1599.7	1627.1	1636.2	1631.0	1624.5	1637.5	1640.2	1629.7	1641.5
25°	1655.8	1676.7	1683.2	1696.3	1676.7	1691.1	1685.9	1710.7	1726.3	1705.4	1719.8
27.5°	1755.1	1745.9	1762.9	1761.6	1777.3	1762.9	1772.0	1779.9	1786.4	1787.7	1781.2
30°	1843.9	1847.8	1830.8	1876.5	1839.9	1863.5	1879.1	1883.0	1890.9	1890.9	1871.3
32.5°	1937.9	1930.0	1957.5	1947.0	1940.5	1958.8	1941.8	1995.3	1964.0	1982.3	1960.1
35°	2043.7	2043.7	2054.1	2082.8	2043.7	2031.9	2063.2	2085.4	2085.4	2052.8	2060.6
37.5°	2162.5	2152.0	2165.1	2201.7	2171.6	2132.5	2189.9	2199.1	2192.5	2183.4	2167.7
40°	2246.1	2243.5	2269.6	2317.9	2274.8	2267.0	2277.4	2302.2	2310.1	2319.2	2298.3
42.5°	2387.1	2398.9	2474.6	2462.8	2427.6	2400.2	2397.5	2490.3	2468.1	2444.6	2432.8
45°	2596.0	2585.6	2624.8	2626.1	2580.4	2520.3	2533.4	2618.2	2656.1	2603.9	2623.5
47.5°	2761.9	2767.1	2794.5	2850.7	2744.9	2682.2	2730.5	2867.7	2855.9	2836.3	2854.6
50°	2983.9	3007.4	3093.6	3074.0	2980.0	2902.9	3008.7	3138.0	3152.3	3080.5	3067.4
52.5°	3290.7	3327.3	3374.3	3390.0	3299.9	3272.5	3279.0	3439.6	3404.4	3335.1	3290.7
55°	3559.8	3576.7	3662.9	3792.2	3785.7	3653.8	3729.5	3789.6	3645.9	3503.6	3515.4
57.5°	3674.7	3682.5	3922.8	4181.3	4335.4	4365.5	4279.3	4076.9	3734.7	3460.5	3443.5
60°	3388.7	3463.1	3753.0	4336.7	5040.6	5387.9	4814.7	4109.5	3527.1	3194.1	3169.3
62.5°	2708.3	2712.3	3143.2	4028.6	5479.4	6389.5	5019.7	3802.6	2973.4	2596.0	2496.8
64°	1928.7	1965.3	2460.2	3566.3	5387.9	6797.0	4994.9	3401.7	2451.1	1915.7	1846.5
65°	1384.2	1435.1	1913.1	3096.2	5173.8	6748.6	4920.5	3057.0	1982.3	1462.6	1392.0
67.5°	509.3	530.2	750.9	1548.7	3715.1	5751.0	3899.3	1680.6	871.0	620.3	557.6
70°	236.4	237.7	278.1	511.9	1624.5	3845.7	1860.8	630.7	327.8	259.9	241.6
72.5°	173.7	177.6	194.6	236.4	477.9	1628.4	611.1	258.6	192.0	169.8	165.8
75°	141.0	143.6	148.9	171.1	220.7	436.2	248.1	178.9	152.8	137.1	131.9
77.5°	108.4	108.4	120.1	130.6	146.3	203.7	164.5	142.3	124.1	108.4	104.5
80°	78.4	79.7	94.0	101.9	99.2	134.5	118.8	117.5	101.9	84.9	78.4
82.5°	45.7	49.6	67.9	73.1	70.5	79.7	86.2	91.4	79.7	58.8	53.5
85°	26.1	27.4	39.2	40.5	40.5	37.9	49.6	54.8	53.5	36.6	32.6
87.5°	7.8	7.8	10.4	10.4	11.8	13.1	19.6	23.5	26.1	18.3	17.0
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°	1333.3	1333.3	1333.3	1333.3	1333.3	1333.3	1333.3	1333.3	1333.3	1333.3	1333.3
2.5°	1354.2	1334.6	1335.9	1341.1	1324.1	1330.7	1350.3	1335.9	1332.0	1324.1	1320.2
5°	1347.6	1368.5	1360.7	1363.3	1359.4	1341.1	1338.5	1350.3	1356.8	1345.0	1368.5
7.5°	1393.3	1384.2	1373.8	1377.7	1368.5	1384.2	1394.6	1371.1	1382.9	1376.4	1363.3
10°	1419.5	1402.5	1410.3	1407.7	1401.2	1416.8	1406.4	1403.8	1393.3	1379.0	1399.9
12.5°	1428.6	1448.2	1461.2	1439.0	1443.0	1435.1	1428.6	1428.6	1416.8	1412.9	1416.8
15°	1469.1	1486.1	1480.8	1497.8	1475.6	1483.4	1491.3	1471.7	1482.1	1453.4	1475.6
17.5°	1543.5	1529.2	1547.4	1525.2	1533.1	1548.7	1523.9	1523.9	1531.8	1516.1	1496.5
20°	1590.5	1584.0	1577.5	1578.8	1565.7	1580.1	1572.2	1568.3	1556.6	1561.8	1572.2
22.5°	1634.9	1625.8	1628.4	1632.3	1641.5	1634.9	1631.0	1634.9	1606.2	1632.3	1595.8
25°	1689.8	1714.6	1706.7	1723.7	1697.6	1714.6	1713.3	1688.5	1704.1	1693.7	1685.9
27.5°	1781.2	1768.1	1779.9	1759.0	1777.3	1778.6	1762.9	1804.7	1786.4	1783.8	1778.6
30°	1898.7	1889.6	1881.7	1870.0	1884.3	1872.6	1885.7	1889.6	1872.6	1859.5	1834.7
32.5°	1965.3	1990.1	1999.3	1970.5	1971.8	1978.4	1966.6	1954.9	1965.3	1969.2	1965.3
35°	2059.3	2082.8	2088.1	2065.9	2054.1	2086.8	2063.2	2102.4	2068.5	2069.8	2034.5
37.5°	2169.0	2175.5	2219.9	2195.1	2184.7	2169.0	2212.1	2206.9	2214.7	2152.0	2183.4
40°	2293.1	2316.6	2341.4	2278.7	2277.4	2291.8	2289.2	2319.2	2304.8	2295.7	2273.5
42.5°	2428.9	2478.5	2482.4	2440.6	2414.5	2411.9	2425.0	2491.6	2492.9	2432.8	2406.7
45°	2609.1	2663.9	2649.6	2568.6	2539.9	2536.0	2600.0	2628.7	2653.5	2630.0	2607.8
47.5°	2833.7	2870.3	2859.8	2785.4	2692.7	2718.8	2781.5	2871.6	2845.5	2814.1	2788.0
50°	3074.0	3117.1	3094.9	3020.4	2931.6	2931.6	3008.7	3123.6	3115.8	3054.4	3030.9
52.5°	3340.4	3403.1	3454.0	3348.2	3273.8	3285.5	3407.0	3448.8	3429.2	3386.1	3366.5
55°	3538.9	3659.0	3763.5	3768.7	3772.6	3771.3	3802.6	3844.4	3704.7	3635.5	3565.0
57.5°	3490.5	3717.8	4075.6	4318.5	4390.3	4428.1	4417.7	4224.4	3894.1	3666.8	3690.3
60°	3145.8	3516.7	4093.8	4873.4	5395.8	5343.5	5152.9	4389.0	3789.6	3405.7	3357.3
62.5°	2509.8	2956.4	3787.0	5030.1	6469.2	6453.5	5455.8	4009.0	3157.6	2671.8	2641.7
64°	1890.9	2361.0	3378.2	4989.7	6845.3	6860.9	5378.8	3541.5	2470.7	1890.9	1845.2
65°	1446.9	1883.0	2977.3	4906.1	6764.3	6773.5	5164.6	3058.3	1877.8	1342.4	1292.8
67.5°	575.9	801.8	1615.3	3720.4	5808.4	5783.6	3685.1	1479.5	718.2	467.5	458.4
70°	245.5	305.6	566.7	1762.9	3888.8	3817.0	1586.6	480.6	266.4	223.3	222.0
72.5°	168.5	186.7	242.9	544.5	1616.6	1578.8	451.8	223.3	181.5	167.1	167.1
75°	135.8	148.9	176.3	228.5	428.3	412.6	212.9	164.5	144.9	134.5	133.2
77.5°	105.8	118.8	138.4	158.0	195.9	194.6	142.3	124.1	112.3	104.5	101.9
80°	83.6	96.6	109.7	112.3	128.0	125.4	96.6	97.9	91.4	75.7	74.4
82.5°	57.5	78.4	87.5	79.7	75.7	75.7	69.2	69.2	64.0	47.0	43.1
85°	35.3	52.2	54.8	47.0	35.3	35.3	37.9	36.6	34.0	24.8	23.5
87.5°	18.3	24.8	22.2	18.3	11.8	11.8	10.4	7.8	7.8	6.5	6.5
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)