

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: P478816

Luminaire Tested: **IFLD-S-SA2C-727-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478816
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-727-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

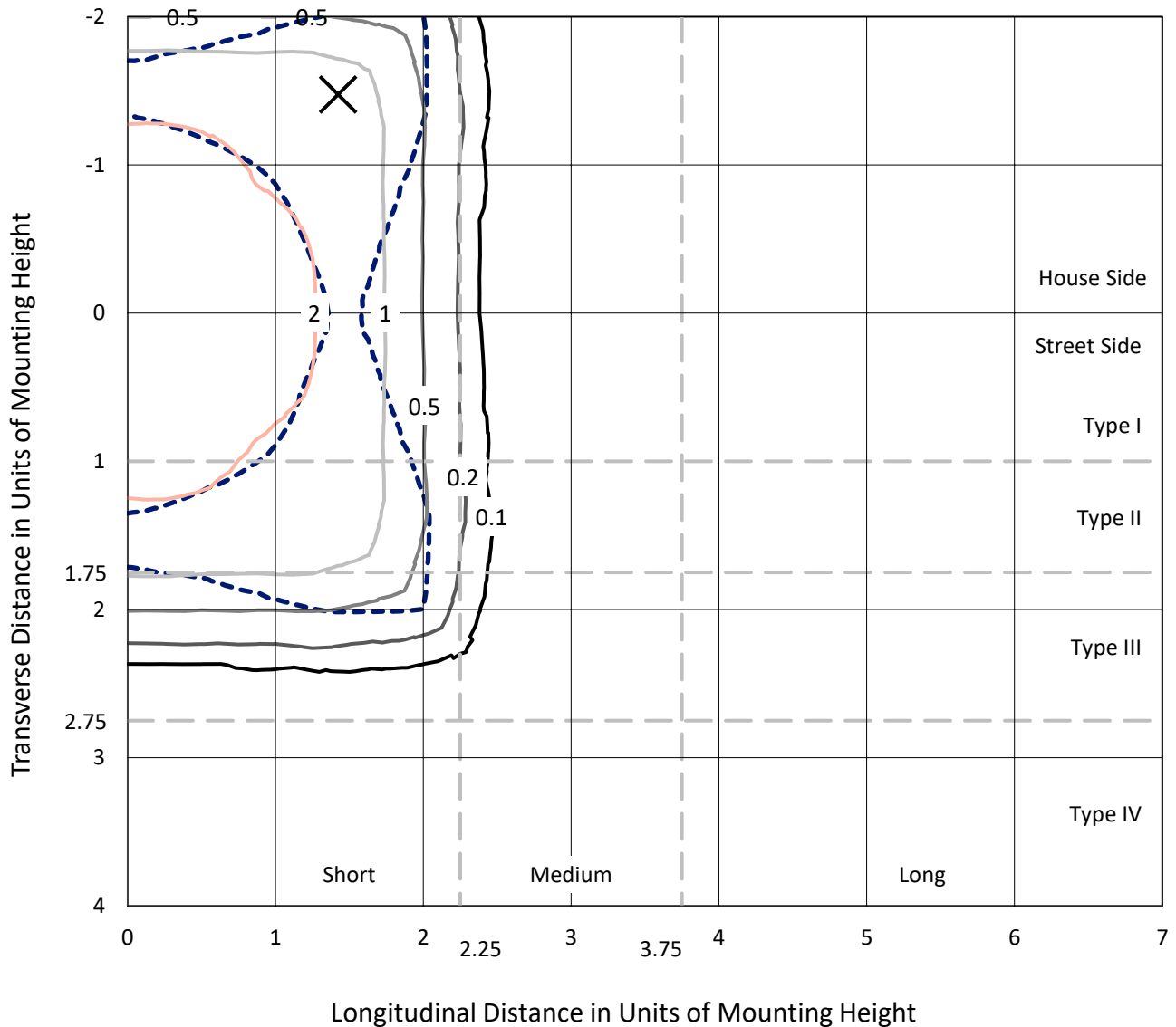
Lumens per Lamp: N/A
Luminaire Lumens: 11855.4 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 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

REPORT NUMBER: P478816
 CATALOG NUMBER: IFLD-S-SA2C-727-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

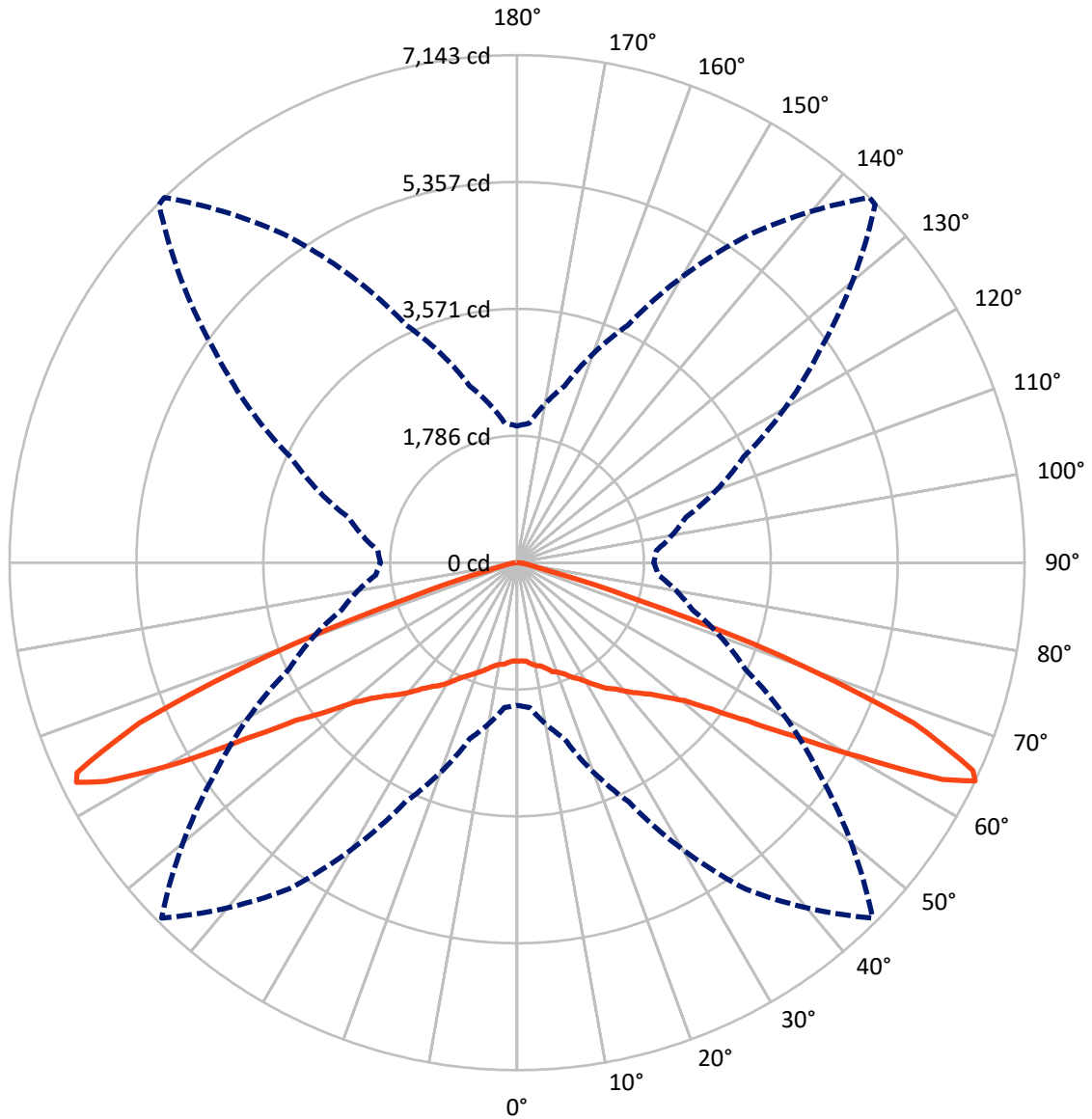
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - N/A

REPORT NUMBER: P478816
CATALOG NUMBER: IFLD-S-SA2C-727-U-5NQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P478816

CATALOG NUMBER: IFLD-S-SA2C-727-U-5NQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5933.4	0.0	5933.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5922.1	0.0	5922.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	11855.4	0.0	11855.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.4	1.2
10°-20°	439.6	3.7
20°-30°	826.1	7.0
30°-40°	1362.4	11.5
40°-50°	2130.7	18.0
50°-60°	3442.8	29.0
60°-70°	3100.0	26.1
70°-80°	367.2	3.1
80°-90°	50.3	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°	11855.4	100.0
0°-180°	11855.4	100.0

Coefficient of Utilization



REPORT NUMBER: P478816

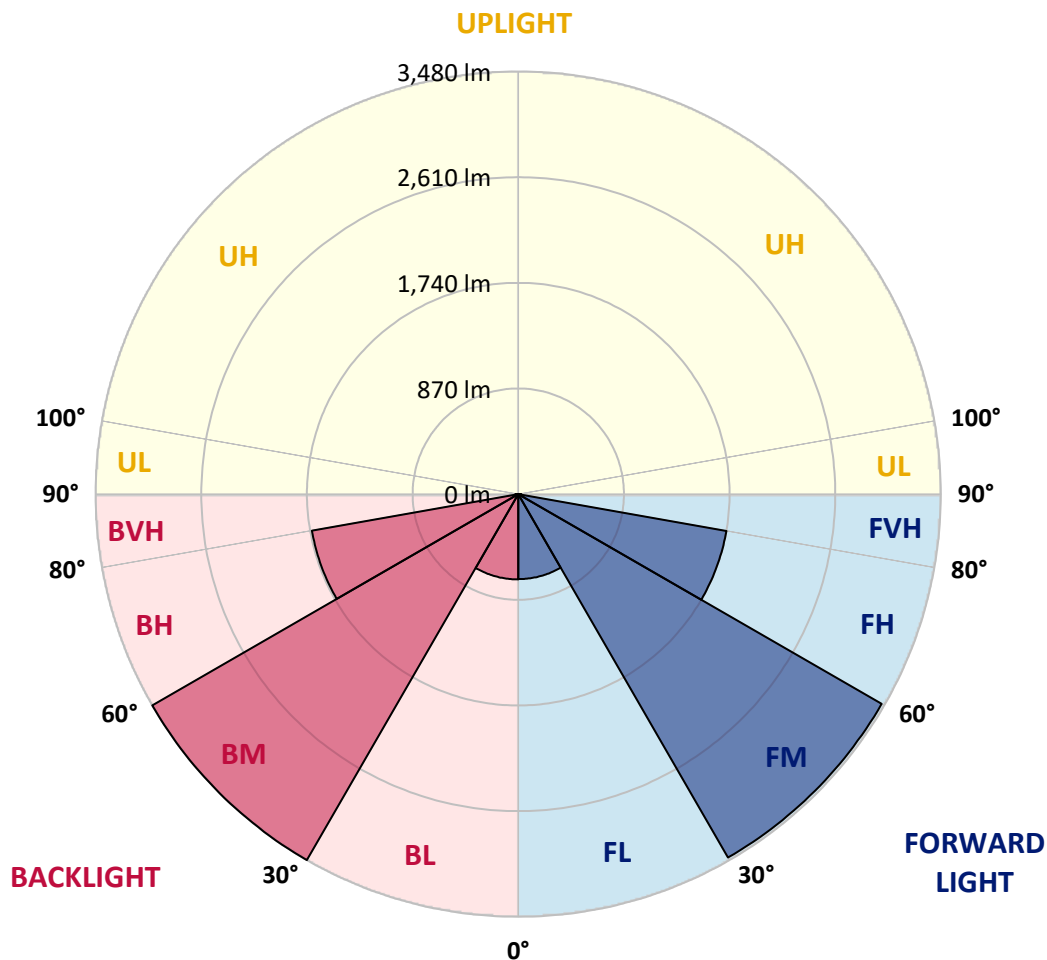
CATALOG NUMBER: IFLD-S-SA2C-727-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	699.7	5.9			
FM (30°-60°)	3455.5	29.1			
FH (60°-80°)	1741.1	14.7			G1/1800
FVH (80°-90°)	25.8	0.2			G1/100
BL (0°-30°)	702.4	5.9	B2/1000		
BM (30°-60°)	3480.4	29.4	B3/5000		
BH (60°-80°)	1726.1	14.6	B3/2500		G1/1800
BVH (80°-90°)	24.5	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





REPORT NUMBER: P478816

CATALOG NUMBER: IFLD-S-SA2C-727-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1388.0	1388.0	1388.0	1388.0	1388.0	1388.0	1388.0	1388.0	1388.0	1388.0	1388.0
2.5°	1371.7	1374.4	1398.9	1389.4	1397.5	1382.6	1393.5	1416.6	1389.4	1409.8	1416.6
5°	1386.7	1390.7	1390.7	1400.3	1405.7	1403.0	1409.8	1400.3	1426.1	1415.2	1431.5
7.5°	1441.0	1434.3	1423.4	1431.5	1432.9	1439.7	1446.5	1458.7	1454.6	1445.1	1461.4
10°	1450.6	1445.1	1461.4	1462.8	1456.0	1450.6	1457.4	1457.4	1469.6	1472.3	1472.3
12.5°	1466.9	1472.3	1471.0	1481.8	1483.2	1479.1	1490.0	1510.4	1504.9	1509.0	1499.5
15°	1529.4	1522.6	1521.3	1532.1	1549.8	1524.0	1543.0	1541.7	1536.2	1544.4	1522.6
17.5°	1583.8	1562.0	1571.6	1589.2	1582.4	1587.9	1612.3	1590.6	1596.0	1586.5	1579.7
20°	1631.4	1613.7	1615.1	1621.9	1621.9	1638.2	1647.7	1639.5	1634.1	1632.7	1635.5
22.5°	1684.4	1664.0	1665.4	1693.9	1703.4	1698.0	1691.2	1704.8	1707.5	1696.6	1708.9
25°	1723.8	1745.6	1752.4	1766.0	1745.6	1760.5	1755.1	1780.9	1797.2	1775.5	1790.4
27.5°	1827.1	1817.6	1835.3	1833.9	1850.3	1835.3	1844.8	1853.0	1859.8	1861.1	1854.3
30°	1919.6	1923.7	1906.0	1953.6	1915.5	1940.0	1956.3	1960.4	1968.5	1968.5	1948.1
32.5°	2017.5	2009.3	2037.9	2027.0	2020.2	2039.2	2021.5	2077.3	2044.7	2063.7	2040.6
35°	2127.6	2127.6	2138.5	2168.4	2127.6	2115.4	2148.0	2171.1	2171.1	2137.1	2145.3
37.5°	2251.3	2240.4	2254.0	2292.1	2260.8	2220.0	2279.8	2289.4	2282.6	2273.1	2256.7
40°	2338.3	2335.6	2362.8	2413.1	2368.2	2360.1	2370.9	2396.8	2404.9	2414.4	2392.7
42.5°	2485.1	2497.4	2576.2	2564.0	2527.3	2498.7	2496.0	2592.5	2569.4	2544.9	2532.7
45°	2702.6	2691.8	2732.6	2733.9	2686.3	2623.8	2637.4	2725.8	2765.2	2710.8	2731.2
47.5°	2875.3	2880.7	2909.3	2967.7	2857.6	2792.4	2842.7	2985.4	2973.2	2952.8	2971.8
50°	3106.4	3130.9	3220.6	3200.2	3102.3	3022.1	3132.2	3266.8	3281.8	3207.0	3193.4
52.5°	3425.9	3464.0	3512.9	3529.2	3435.4	3406.9	3413.7	3580.9	3544.2	3472.1	3425.9
55°	3705.9	3723.6	3813.3	3947.9	3941.1	3803.8	3882.7	3945.2	3795.7	3647.5	3659.7
57.5°	3825.6	3833.7	4083.9	4353.1	4513.5	4544.7	4455.0	4244.3	3888.1	3602.6	3584.9
60°	3527.9	3605.3	3907.1	4514.8	5247.6	5609.2	5012.4	4278.3	3672.0	3325.3	3299.5
62.5°	2819.6	2823.6	3272.3	4194.0	5704.4	6651.9	5225.8	3958.8	3095.5	2702.6	2599.3
64°	2008.0	2046.0	2561.3	3712.7	5609.2	7076.1	5200.0	3541.4	2551.7	1994.4	1922.3
65°	1441.0	1494.1	1991.6	3223.3	5386.3	7025.8	5122.5	3182.5	2063.7	1522.6	1449.2
67.5°	530.2	551.9	781.7	1612.3	3867.7	5987.1	4059.4	1749.7	906.8	645.8	580.5
70°	246.1	247.4	289.6	532.9	1691.2	4003.7	1937.3	656.6	341.2	270.5	251.5
72.5°	180.8	184.9	202.6	246.1	497.6	1695.3	636.2	269.2	199.8	176.7	172.7
75°	146.8	149.5	155.0	178.1	229.8	454.1	258.3	186.2	159.1	142.7	137.3
77.5°	112.8	112.8	125.1	135.9	152.3	212.1	171.3	148.2	129.2	112.8	108.8
80°	81.6	82.9	97.9	106.0	103.3	140.0	123.7	122.4	106.0	88.4	81.6
82.5°	47.6	51.7	70.7	76.1	73.4	82.9	89.7	95.2	82.9	61.2	55.7
85°	27.2	28.5	40.8	42.1	42.1	39.4	51.7	57.1	55.7	38.1	34.0
87.5°	8.2	8.2	10.9	10.9	12.2	13.6	20.4	24.5	27.2	19.0	17.7
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: P478816
 CATALOG NUMBER: IFLD-S-SA2C-727-U-5NQ

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	1388.0	1388.0	1388.0	1388.0	1388.0	1388.0	1388.0	1388.0	1388.0	1388.0	1388.0
2.5°	1409.8	1389.4	1390.7	1396.2	1378.5	1385.3	1405.7	1390.7	1386.7	1378.5	1374.4
5°	1403.0	1424.7	1416.6	1419.3	1415.2	1396.2	1393.5	1405.7	1412.5	1400.3	1424.7
7.5°	1450.6	1441.0	1430.2	1434.3	1424.7	1441.0	1451.9	1427.5	1439.7	1432.9	1419.3
10°	1477.8	1460.1	1468.2	1465.5	1458.7	1475.0	1464.2	1461.4	1450.6	1435.6	1457.4
12.5°	1487.3	1507.7	1521.3	1498.1	1502.2	1494.1	1487.3	1487.3	1475.0	1471.0	1475.0
15°	1529.4	1547.1	1541.7	1559.3	1536.2	1544.4	1552.5	1532.1	1543.0	1513.1	1536.2
17.5°	1606.9	1592.0	1611.0	1587.9	1596.0	1612.3	1586.5	1586.5	1594.7	1578.4	1558.0
20°	1655.8	1649.0	1642.3	1643.6	1630.0	1645.0	1636.8	1632.7	1620.5	1625.9	1636.8
22.5°	1702.1	1692.6	1695.3	1699.3	1708.9	1702.1	1698.0	1702.1	1672.2	1699.3	1661.3
25°	1759.2	1785.0	1776.8	1794.5	1767.3	1785.0	1783.6	1757.8	1774.1	1763.2	1755.1
27.5°	1854.3	1840.7	1853.0	1831.2	1850.3	1851.6	1835.3	1878.8	1859.8	1857.0	1851.6
30°	1976.7	1967.2	1959.0	1946.8	1961.7	1949.5	1963.1	1967.2	1949.5	1935.9	1910.1
32.5°	2046.0	2071.8	2081.4	2051.5	2052.8	2059.6	2047.4	2035.1	2046.0	2050.1	2046.0
35°	2143.9	2168.4	2173.8	2150.7	2138.5	2172.4	2148.0	2188.8	2153.4	2154.8	2118.1
37.5°	2258.1	2264.9	2311.1	2285.3	2274.4	2258.1	2303.0	2297.5	2305.7	2240.4	2273.1
40°	2387.2	2411.7	2437.5	2372.3	2370.9	2385.9	2383.2	2414.4	2399.5	2390.0	2366.9
42.5°	2528.6	2580.3	2584.4	2540.9	2513.7	2511.0	2524.6	2593.9	2595.2	2532.7	2505.5
45°	2716.2	2773.3	2758.4	2674.1	2644.2	2640.1	2706.7	2736.6	2762.5	2738.0	2714.9
47.5°	2950.1	2988.1	2977.3	2899.8	2803.2	2830.4	2895.7	2989.5	2962.3	2929.7	2902.5
50°	3200.2	3245.1	3222.0	3144.5	3052.0	3052.0	3132.2	3251.9	3243.7	3179.8	3155.4
52.5°	3477.5	3542.8	3595.8	3485.7	3408.2	3420.5	3546.9	3590.4	3570.0	3525.1	3504.7
55°	3684.2	3809.3	3918.0	3923.5	3927.5	3926.2	3958.8	4002.3	3856.8	3784.8	3711.4
57.5°	3633.9	3870.4	4242.9	4495.8	4570.6	4610.0	4599.1	4397.9	4054.0	3817.4	3841.9
60°	3275.0	3661.1	4262.0	5073.6	5617.4	5563.0	5364.5	4569.2	3945.2	3545.5	3495.2
62.5°	2612.9	3077.9	3942.5	5236.7	6734.9	6718.5	5679.9	4173.6	3287.2	2781.5	2750.2
64°	1968.5	2457.9	3517.0	5194.6	7126.4	7142.7	5599.7	3686.9	2572.1	1968.5	1920.9
65°	1506.3	1960.4	3099.6	5107.6	7042.1	7051.6	5376.7	3183.9	1954.9	1397.5	1345.9
67.5°	599.5	834.7	1681.7	3873.2	6047.0	6021.1	3836.5	1540.3	747.7	486.7	477.2
70°	255.6	318.1	590.0	1835.3	4048.5	3973.8	1651.8	500.3	277.3	232.5	231.1
72.5°	175.4	194.4	252.9	566.9	1683.0	1643.6	470.4	232.5	189.0	174.0	174.0
75°	141.4	155.0	183.5	237.9	445.9	429.6	221.6	171.3	150.9	140.0	138.7
77.5°	110.1	123.7	144.1	164.5	203.9	202.6	148.2	129.2	116.9	108.8	106.0
80°	87.0	100.6	114.2	116.9	133.2	130.5	100.6	102.0	95.2	78.8	77.5
82.5°	59.8	81.6	91.1	82.9	78.8	78.8	72.1	72.1	66.6	48.9	44.9
85°	36.7	54.4	57.1	48.9	36.7	36.7	39.4	38.1	35.3	25.8	24.5
87.5°	19.0	25.8	23.1	19.0	12.2	12.2	10.9	8.2	8.2	6.8	6.8
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)