

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: P481392

Luminaire Tested: **IFLD-S-SA2E-827-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481392
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-827-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

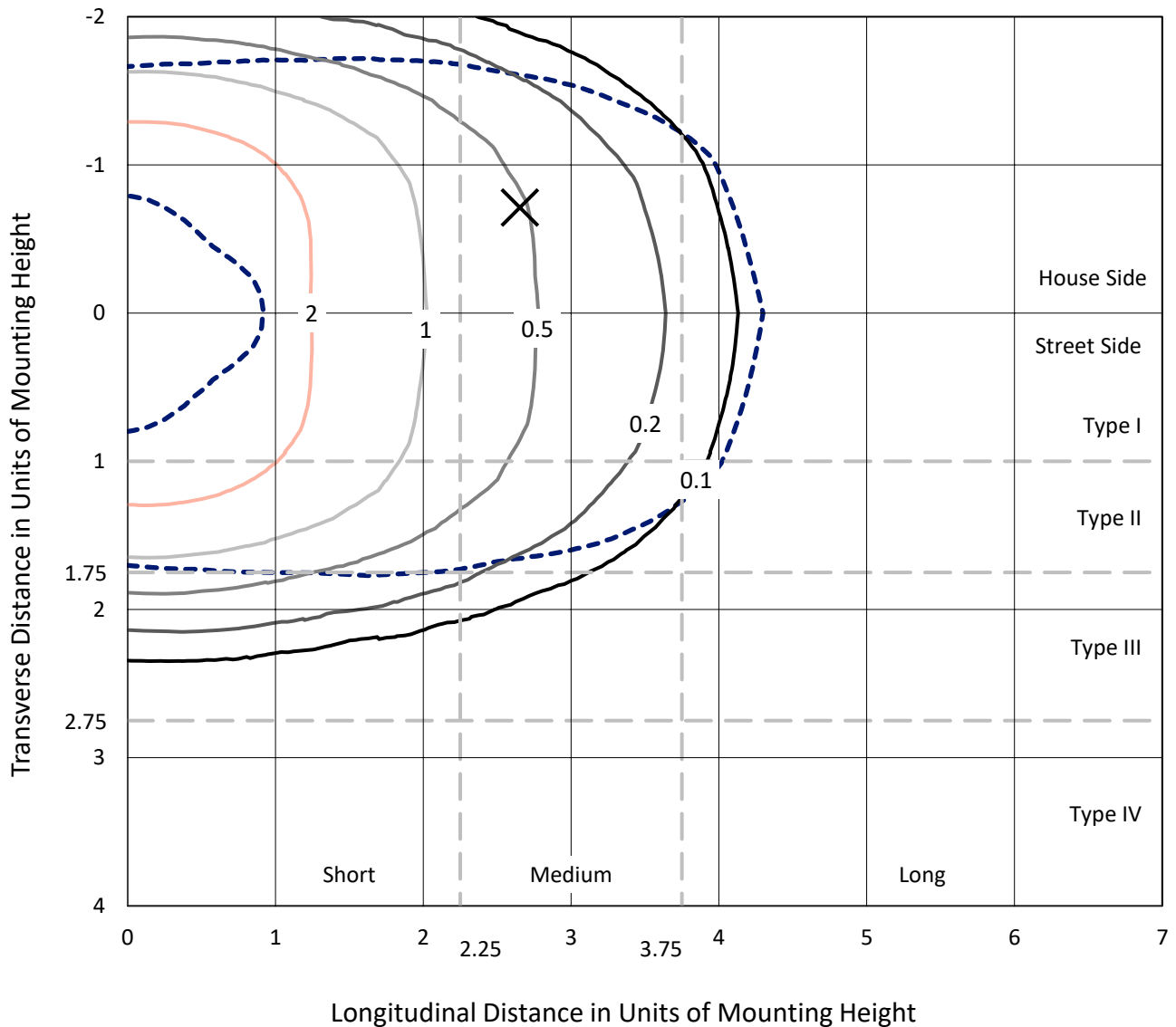
Lumens per Lamp: N/A
Luminaire Lumens: 13704.4 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 156.2
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

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Iso-Footcandle Lines of Horizontal Illumination

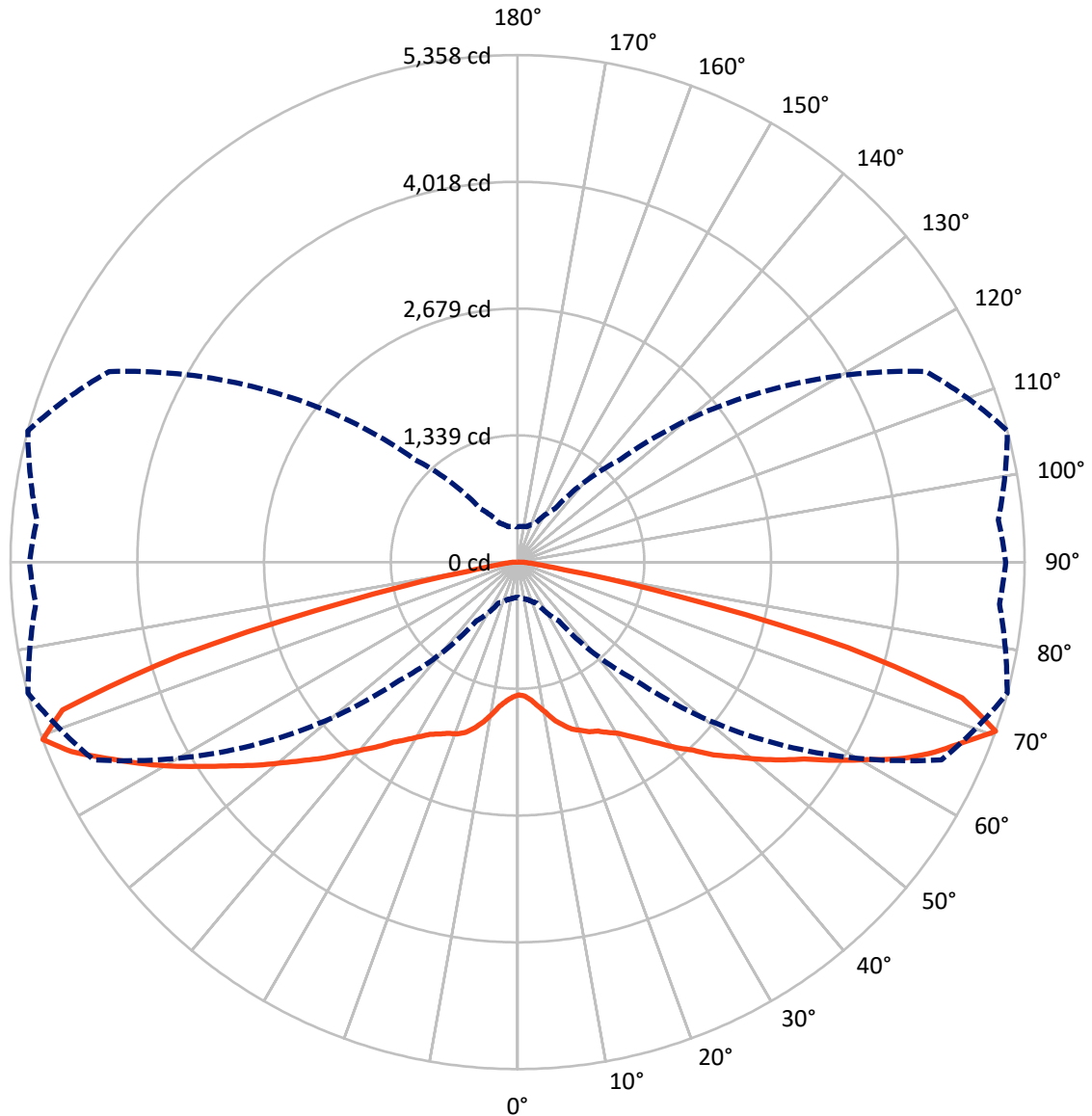
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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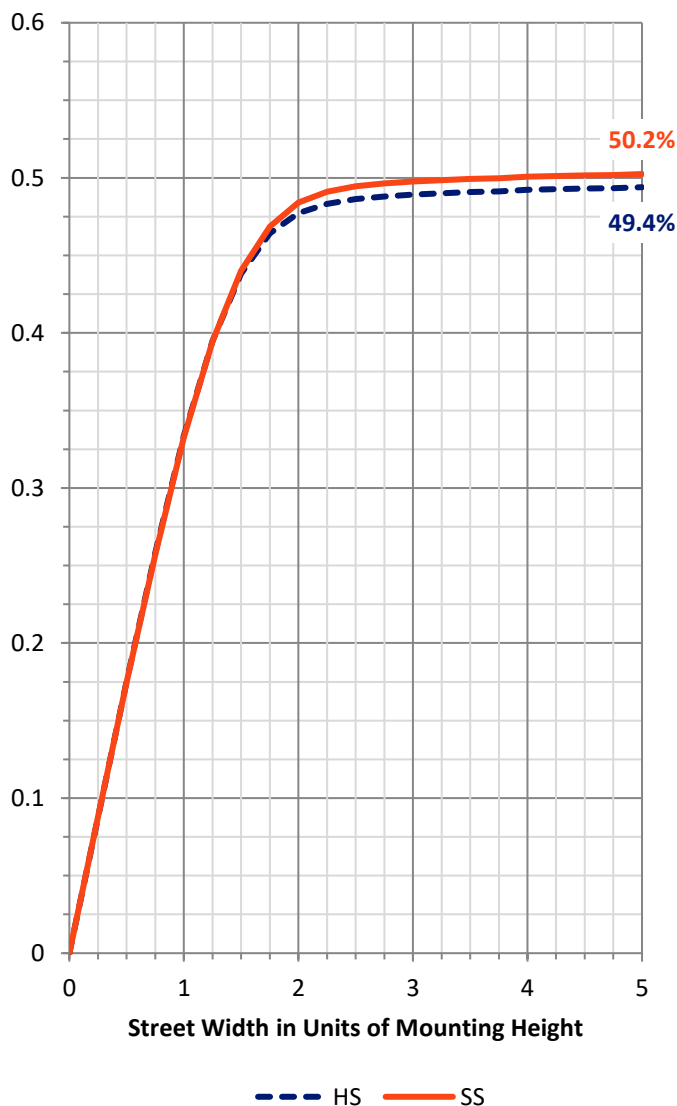
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6803.4	0.0	6803.4
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	6900.9	0.0	6900.9
	% Fixture	50.4	0.0	50.4
Total	Lumens	13704.4	0.0	13704.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	1.0
10°-20°	475.6	3.5
20°-30°	920.9	6.7
30°-40°	1557.6	11.4
40°-50°	2484.9	18.1
50°-60°	3401.2	24.8
60°-70°	3205.9	23.4
70°-80°	1412.3	10.3
80°-90°	106.3	0.8
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°	13704.4	100.0
0°-180°	13704.4	100.0

Coefficient of Utilization



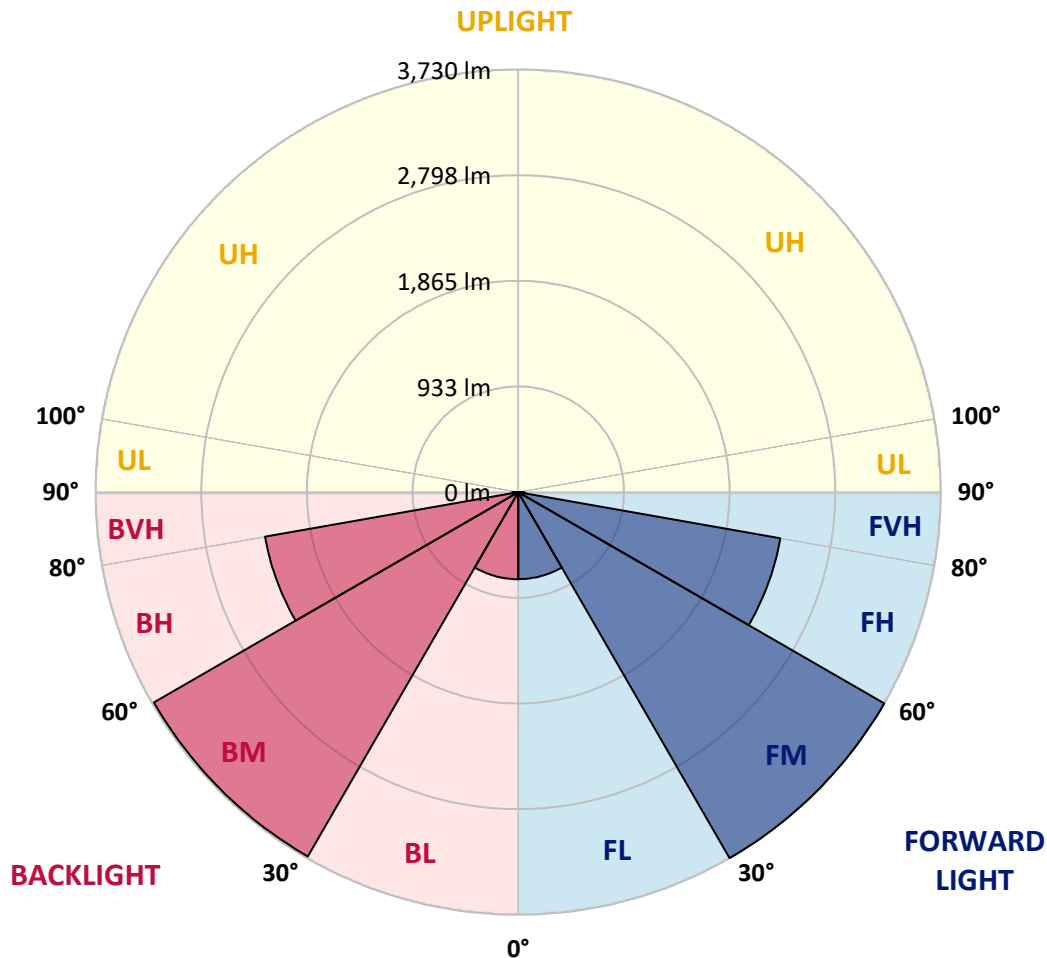
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	767.7	5.6			
FM (30°-60°)	3730.2	27.2			
FH (60°-80°)	2348.8	17.1			G2/5000
FVH (80°-90°)	54.3	0.4			G1/100
BL (0°-30°)	768.5	5.6	B2/1000		
BM (30°-60°)	3713.5	27.1	B3/5000		
BH (60°-80°)	2269.4	16.6	B3/2500		G3/2500
BVH (80°-90°)	52.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1403.3	1403.3	1403.3	1403.3	1403.3	1403.3	1403.3	1403.3	1403.3	1403.3	1403.3
2.5°	1394.4	1394.4	1393.0	1400.4	1407.7	1410.7	1416.6	1418.1	1426.9	1419.6	1434.3
5°	1390.0	1388.5	1400.4	1418.1	1418.1	1437.3	1449.1	1465.4	1469.8	1478.6	1481.6
7.5°	1421.0	1418.1	1412.2	1431.4	1447.6	1477.2	1493.4	1521.5	1531.8	1543.6	1556.9
10°	1440.2	1440.2	1434.3	1468.3	1483.1	1523.0	1558.4	1586.5	1626.4	1639.7	1641.1
12.5°	1443.2	1447.6	1465.4	1509.7	1551.0	1602.7	1629.3	1682.5	1722.4	1747.5	1756.4
15°	1487.5	1478.6	1497.9	1558.4	1619.0	1664.8	1712.0	1750.4	1808.1	1840.6	1861.2
17.5°	1527.4	1518.5	1554.0	1626.4	1688.4	1759.3	1800.7	1842.0	1883.4	1912.9	1914.4
20°	1590.9	1598.3	1629.3	1707.6	1788.9	1850.9	1898.2	1905.6	1926.2	1969.1	1961.7
22.5°	1669.2	1663.3	1728.3	1814.0	1902.6	1954.3	1980.9	1961.7	1951.3	1997.1	2007.5
25°	1747.5	1765.2	1824.3	1904.1	2010.4	2079.9	2087.2	2034.1	1995.7	2011.9	2007.5
27.5°	1867.1	1870.1	1932.1	2026.7	2134.5	2195.1	2190.6	2115.3	2041.5	2042.9	2045.9
30°	2020.8	2006.0	2073.9	2159.6	2266.0	2320.6	2328.0	2220.2	2121.2	2091.7	2099.1
32.5°	2168.5	2186.2	2245.3	2342.8	2421.1	2452.1	2435.9	2339.8	2211.3	2171.4	2175.9
35°	2357.6	2354.6	2435.9	2518.6	2577.7	2583.6	2570.3	2429.9	2308.8	2257.1	2236.4
37.5°	2559.9	2586.5	2639.7	2707.7	2769.7	2772.6	2700.3	2588.0	2438.8	2353.1	2378.2
40°	2785.9	2815.5	2853.9	2952.9	2998.7	2951.4	2877.5	2725.4	2570.3	2494.9	2506.8
42.5°	2985.4	2998.7	3076.9	3193.6	3215.8	3195.1	3085.8	2901.2	2720.9	2638.2	2644.1
45°	3168.5	3186.3	3288.2	3393.1	3444.8	3409.3	3282.3	3106.5	2896.7	2825.8	2797.8
47.5°	3336.9	3372.4	3471.4	3579.2	3659.0	3661.9	3505.3	3292.6	3071.0	2978.0	2976.5
50°	3450.7	3502.4	3599.9	3722.5	3839.2	3885.0	3728.4	3499.4	3261.6	3162.6	3152.3
52.5°	3512.7	3565.9	3663.4	3853.9	3983.9	4054.8	3981.0	3692.9	3484.6	3381.2	3365.0
55°	3437.4	3472.8	3632.4	3899.7	4100.6	4217.3	4168.6	3960.3	3706.2	3622.0	3636.8
57.5°	3116.8	3190.7	3387.2	3721.0	4097.7	4384.2	4379.8	4212.9	3961.8	3882.0	3885.0
60°	2565.8	2627.9	2870.1	3336.9	3932.2	4452.2	4608.8	4458.1	4248.3	4155.3	4152.3
62.5°	1811.0	1889.3	2170.0	2679.6	3444.8	4357.7	4871.7	4766.8	4529.0	4461.1	4486.2
65°	1013.3	1060.6	1320.6	1781.5	2624.9	3837.7	4919.0	5087.4	4814.1	4710.7	4715.1
67.5°	542.1	559.8	681.0	935.0	1605.7	2958.8	4441.9	5272.0	5122.8	4944.1	4916.0
70°	372.2	378.2	409.2	478.6	759.3	1769.7	3350.2	4942.6	5354.7	5111.0	5158.3
72.5°	314.6	311.7	319.1	326.5	397.4	791.8	1966.1	3803.7	5054.9	4963.3	4945.6
75°	273.3	271.8	274.8	267.4	276.2	348.6	870.1	2370.9	3700.3	4130.2	4196.6
77.5°	226.0	227.5	229.0	221.6	218.6	230.4	350.1	1041.4	1821.4	2010.4	2168.5
80°	171.4	174.3	186.1	178.7	166.9	168.4	206.8	348.6	522.9	474.2	488.9
82.5°	116.7	118.2	143.3	134.4	125.6	113.7	132.9	180.2	203.8	155.1	135.9
85°	82.7	81.2	93.1	85.7	79.8	57.6	79.8	101.9	122.6	76.8	69.4
87.5°	19.2	19.2	38.4	31.0	29.5	23.6	31.0	39.9	53.2	34.0	31.0
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°	145°	155°	165°	175°	180°
0°	1403.3	1403.3	1403.3	1403.3	1403.3	1403.3	1403.3	1403.3	1403.3	1403.3
2.5°	1429.9	1416.6	1416.6	1413.7	1401.8	1398.9	1388.5	1391.5	1384.1	1376.7
5°	1480.1	1462.4	1462.4	1437.3	1413.7	1410.7	1398.9	1398.9	1387.1	1390.0
7.5°	1549.6	1533.3	1506.7	1484.6	1452.1	1438.8	1416.6	1413.7	1410.7	1404.8
10°	1632.3	1611.6	1585.0	1539.2	1512.6	1487.5	1465.4	1434.3	1426.9	1428.4
12.5°	1744.5	1712.0	1654.4	1614.5	1580.6	1548.1	1515.6	1469.8	1459.4	1463.9
15°	1824.3	1782.9	1725.3	1710.6	1664.8	1624.9	1571.7	1520.0	1502.3	1497.9
17.5°	1889.3	1855.3	1821.4	1799.2	1762.3	1713.5	1639.7	1580.6	1540.7	1536.3
20°	1942.5	1898.2	1890.8	1904.1	1858.3	1825.8	1735.7	1663.3	1610.1	1588.0
22.5°	1975.0	1946.9	1967.6	1979.4	1976.5	1921.8	1828.7	1744.5	1678.1	1657.4
25°	2010.4	1977.9	2051.8	2091.7	2102.0	2011.9	1939.5	1828.7	1763.7	1750.4
27.5°	2028.2	2040.0	2125.6	2209.8	2202.5	2133.0	2035.5	1936.6	1884.9	1861.2
30°	2079.9	2099.1	2229.1	2323.6	2325.1	2257.1	2183.3	2071.0	2013.4	2003.0
32.5°	2172.9	2196.6	2335.4	2435.9	2453.6	2401.9	2328.0	2258.6	2199.5	2175.9
35°	2243.8	2304.4	2461.0	2552.6	2599.8	2568.8	2527.4	2455.1	2393.0	2372.3
37.5°	2345.7	2429.9	2580.6	2704.7	2757.9	2754.9	2723.9	2645.6	2593.9	2576.2
40°	2492.0	2576.2	2713.6	2877.5	2976.5	2972.1	2954.3	2893.8	2817.0	2808.1
42.5°	2647.1	2716.5	2895.3	3082.9	3224.7	3209.9	3162.6	3091.7	3038.5	3026.7
45°	2797.8	2905.6	3071.0	3311.8	3418.2	3455.1	3399.0	3277.8	3217.3	3209.9
47.5°	2986.8	3072.5	3279.3	3495.0	3653.0	3659.0	3562.9	3450.7	3339.9	3363.5
50°	3155.2	3269.0	3478.7	3715.1	3904.2	3836.2	3713.6	3573.3	3493.5	3462.5
52.5°	3335.5	3474.3	3718.0	3958.8	4063.7	3995.7	3796.3	3639.7	3518.6	3505.3
55°	3598.4	3670.8	3989.8	4174.5	4208.5	4065.2	3771.2	3549.6	3393.1	3354.7
57.5°	3865.8	3950.0	4229.1	4388.7	4353.2	4026.8	3608.7	3266.0	3060.7	3006.0
60°	4136.1	4239.5	4474.4	4620.6	4437.4	3762.4	3149.3	2707.7	2468.4	2419.6
62.5°	4437.4	4571.8	4781.6	4833.3	4187.8	3239.4	2499.4	1954.3	1712.0	1630.8
65°	4704.8	4842.2	5100.7	4789.0	3657.5	2416.7	1616.0	1116.7	938.0	873.0
67.5°	4924.9	5080.0	5207.0	4238.0	2678.1	1415.1	842.0	587.9	521.4	497.8
70°	5099.2	5357.7	4763.9	3115.4	1530.3	689.8	455.0	387.0	378.2	372.2
72.5°	4947.0	4913.1	3557.0	1797.7	670.6	379.6	329.4	319.1	317.6	319.1
75°	4046.0	3608.7	2127.1	781.4	336.8	274.8	273.3	268.8	276.2	276.2
77.5°	1963.2	1716.5	889.3	335.3	221.6	215.7	223.1	223.1	223.1	223.1
80°	455.0	503.7	317.6	203.8	161.0	161.0	177.3	178.7	171.4	168.4
82.5°	155.1	206.8	174.3	128.5	106.4	119.7	134.4	137.4	113.7	115.2
85°	76.8	121.1	94.5	73.9	54.7	73.9	87.2	91.6	78.3	75.3
87.5°	35.5	53.2	35.5	25.1	19.2	26.6	25.1	20.7	11.8	11.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)