

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: P481413

Luminaire Tested: **IFLD-M-SA4A-827-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481413
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-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

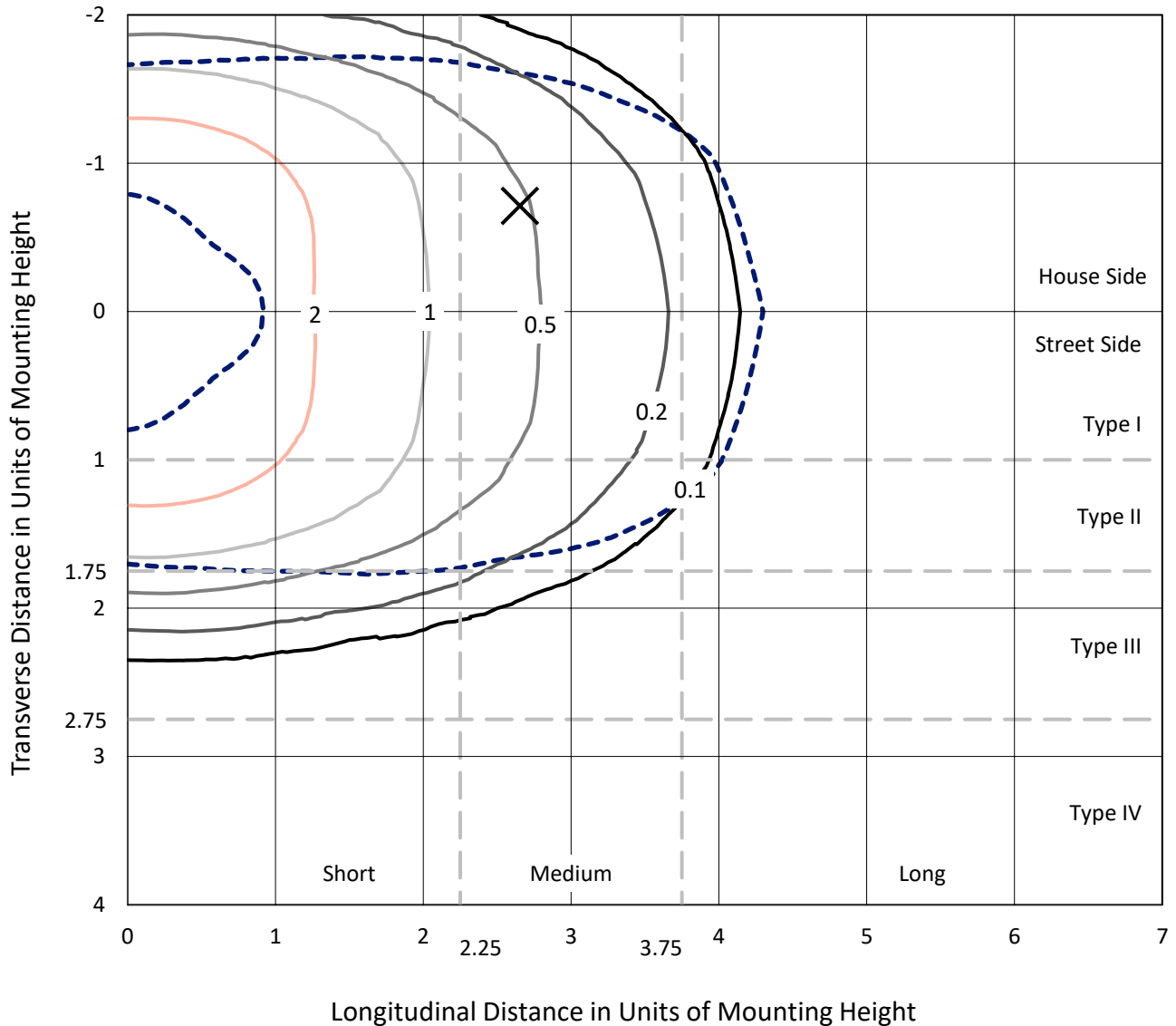
Lumens per Lamp: N/A
Luminaire Lumens: 13983 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 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

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Iso-Footcandle Lines of Horizontal Illumination

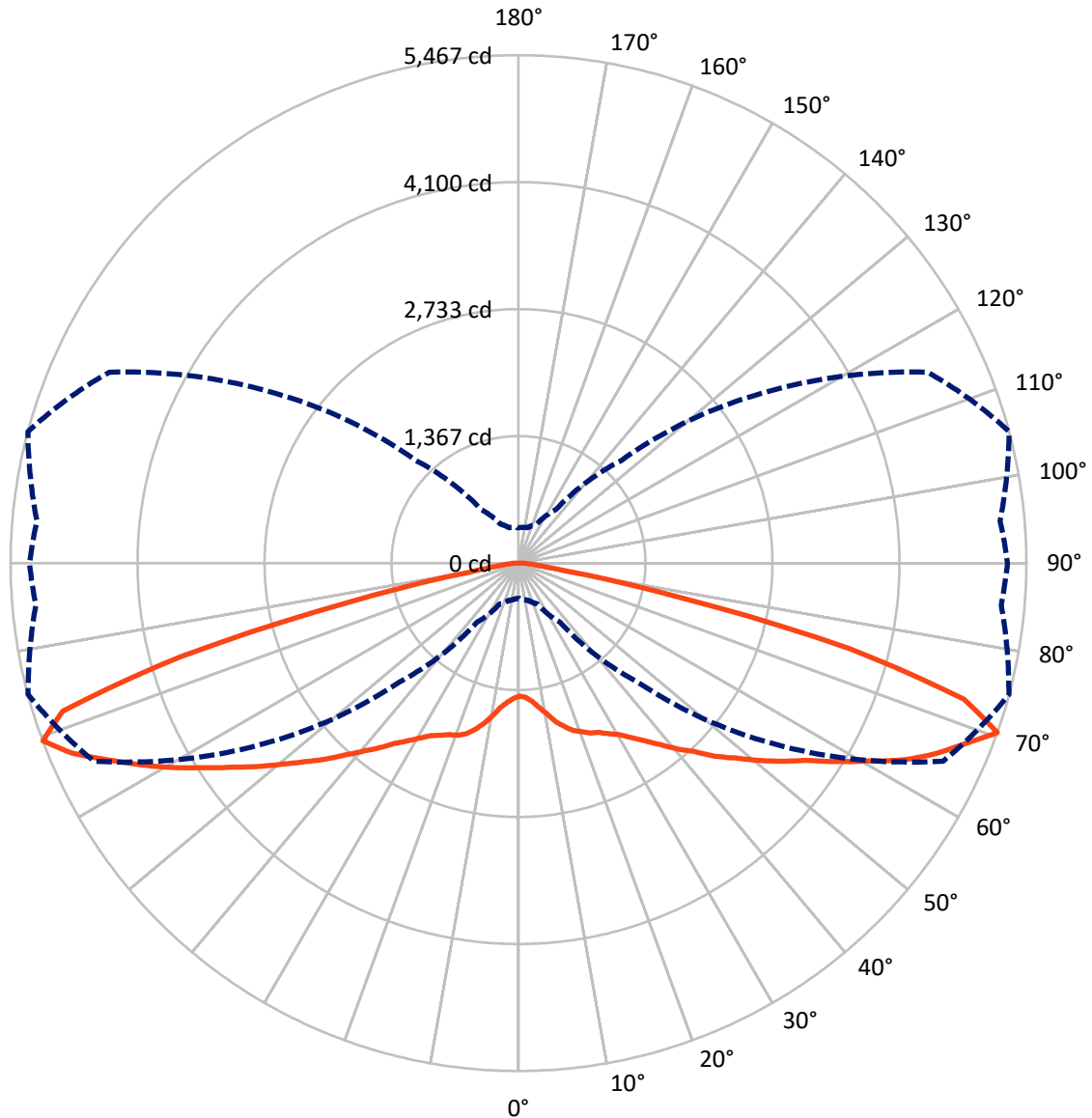
× Max cd
 - - - 1/2 Max cd



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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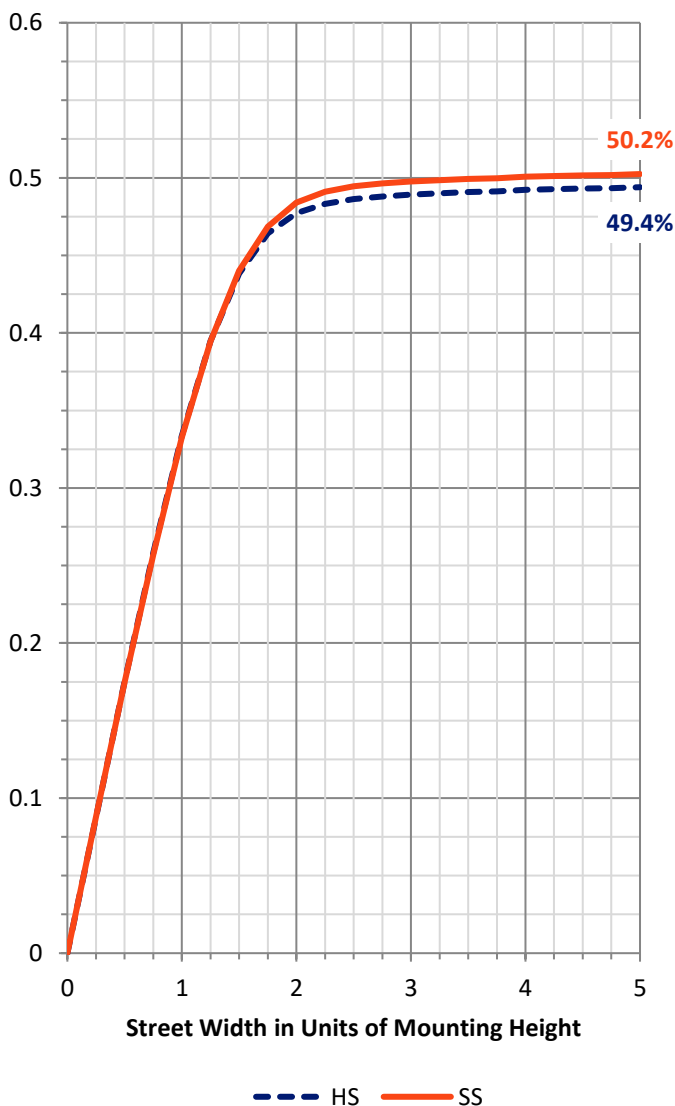
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6941.8	0.0	6941.8
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	7041.2	0.0	7041.2
	% Fixture	50.4	0.0	50.4
Total	Lumens	13983.0	0.0	13983.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.5	1.0
10°-20°	485.3	3.5
20°-30°	939.6	6.7
30°-40°	1589.3	11.4
40°-50°	2535.4	18.1
50°-60°	3470.4	24.8
60°-70°	3271.1	23.4
70°-80°	1441.0	10.3
80°-90°	108.4	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°	13983.0	100.0
0°-180°	13983.0	100.0

Coefficient of Utilization



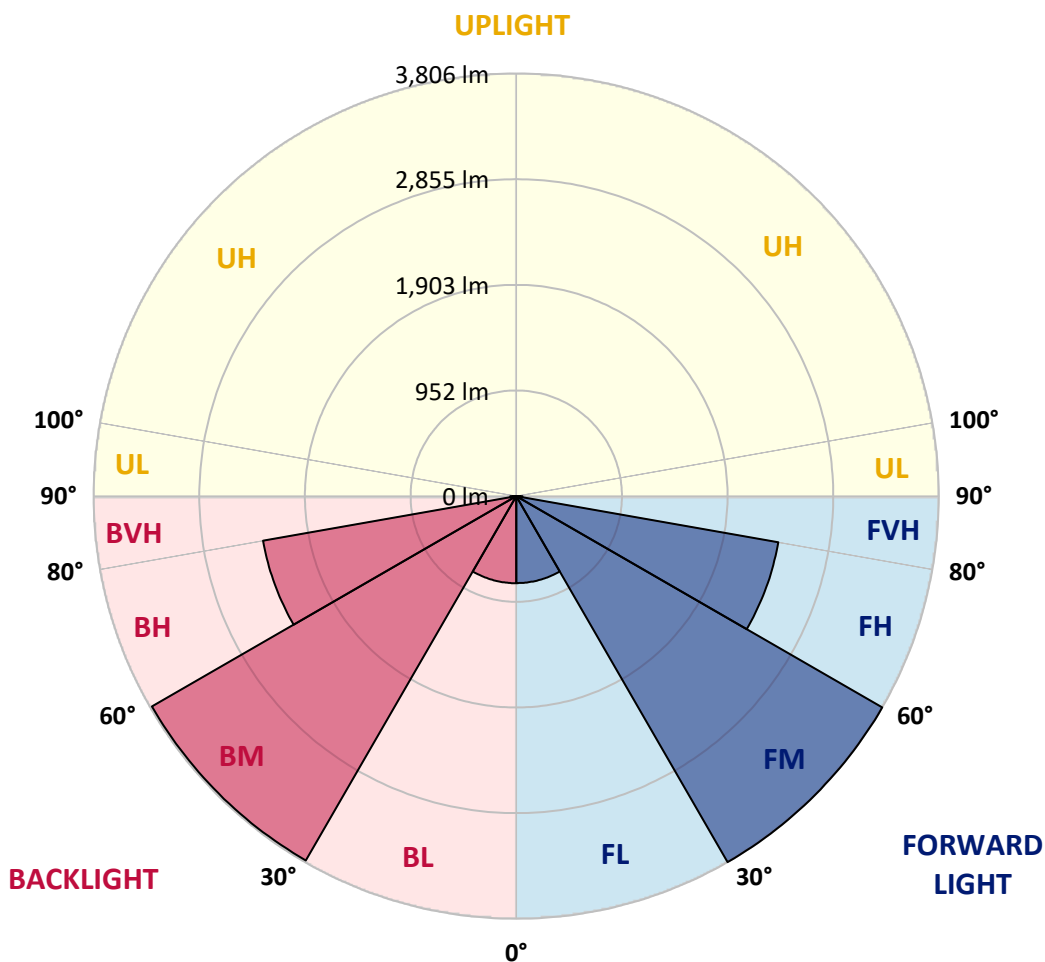
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	783.3	5.6			
FM (30°-60°)	3806.0	27.2			
FH (60°-80°)	2396.5	17.1			G2/5000
FVH (80°-90°)	55.4	0.4			G1/100
BL (0°-30°)	784.1	5.6	B2/1000		
BM (30°-60°)	3789.0	27.1	B3/5000		
BH (60°-80°)	2315.6	16.6	B3/2500		G3/2500
BVH (80°-90°)	53.0	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°	1431.8	1431.8	1431.8	1431.8	1431.8	1431.8	1431.8	1431.8	1431.8	1431.8	1431.8
2.5°	1422.8	1422.8	1421.3	1428.8	1436.4	1439.4	1445.4	1446.9	1456.0	1448.4	1463.5
5°	1418.3	1416.8	1428.8	1446.9	1446.9	1466.5	1478.6	1495.1	1499.7	1508.7	1511.7
7.5°	1449.9	1446.9	1440.9	1460.5	1477.1	1507.2	1523.8	1552.4	1563.0	1575.0	1588.6
10°	1469.5	1469.5	1463.5	1498.2	1513.2	1553.9	1590.1	1618.7	1659.4	1673.0	1674.5
12.5°	1472.5	1477.1	1495.1	1540.4	1582.6	1635.3	1662.4	1716.7	1757.4	1783.0	1792.1
15°	1517.8	1508.7	1528.3	1590.1	1651.9	1698.6	1746.9	1786.0	1844.8	1878.0	1899.1
17.5°	1558.4	1549.4	1585.6	1659.4	1722.7	1795.1	1837.3	1879.5	1921.7	1951.8	1953.3
20°	1623.3	1630.8	1662.4	1742.3	1825.2	1888.5	1936.8	1944.3	1965.4	2009.1	2001.6
22.5°	1703.1	1697.1	1763.4	1850.8	1941.3	1994.0	2021.2	2001.6	1991.0	2037.7	2048.3
25°	1783.0	1801.1	1861.4	1942.8	2051.3	2122.1	2129.7	2075.4	2036.2	2052.8	2048.3
27.5°	1905.1	1908.1	1971.4	2067.9	2177.9	2239.7	2235.2	2158.3	2083.0	2084.5	2087.5
30°	2061.9	2046.8	2116.1	2203.5	2312.1	2367.8	2375.4	2265.3	2164.3	2134.2	2141.7
32.5°	2212.6	2230.7	2291.0	2390.4	2470.3	2502.0	2485.4	2387.4	2256.3	2215.6	2220.1
35°	2405.5	2402.5	2485.4	2569.8	2630.1	2636.1	2622.5	2479.4	2355.8	2303.0	2281.9
37.5°	2612.0	2639.1	2693.4	2762.7	2826.0	2829.0	2755.2	2640.6	2488.4	2401.0	2426.6
40°	2842.6	2872.7	2911.9	3012.9	3059.6	3011.4	2936.0	2780.8	2622.5	2545.7	2557.7
42.5°	3046.1	3059.6	3139.5	3258.6	3281.2	3260.1	3148.6	2960.2	2776.3	2691.9	2697.9
45°	3233.0	3251.0	3355.0	3462.0	3514.8	3478.6	3349.0	3169.7	2955.6	2883.3	2854.6
47.5°	3404.8	3440.9	3541.9	3652.0	3733.3	3736.4	3576.6	3359.6	3133.5	3038.5	3037.0
50°	3520.8	3573.6	3673.1	3798.2	3917.2	3963.9	3804.2	3570.6	3327.9	3226.9	3216.4
52.5°	3584.1	3638.4	3737.9	3932.3	4064.9	4137.3	4061.9	3768.0	3555.5	3450.0	3433.4
55°	3507.3	3543.4	3706.2	3979.0	4184.0	4303.1	4253.3	4040.8	3781.6	3695.7	3710.7
57.5°	3180.2	3255.6	3456.0	3796.6	4181.0	4473.4	4468.9	4298.5	4042.3	3960.9	3963.9
60°	2618.0	2681.3	2928.5	3404.8	4012.2	4542.7	4702.5	4548.7	4334.7	4239.8	4236.8
62.5°	1847.8	1927.7	2214.1	2734.1	3514.8	4446.3	4970.8	4863.8	4621.1	4551.8	4577.4
65°	1033.9	1082.2	1347.4	1817.7	2678.3	3915.7	5019.0	5190.8	4912.0	4806.5	4811.0
67.5°	553.1	571.2	694.8	954.1	1638.3	3018.9	4532.2	5379.2	5227.0	5044.6	5016.0
70°	379.8	385.8	417.5	488.3	774.7	1805.6	3418.3	5043.1	5463.6	5214.9	5263.2
72.5°	321.0	318.0	325.6	333.1	405.4	807.9	2006.1	3881.1	5157.7	5064.2	5046.1
75°	278.8	277.3	280.3	272.8	281.8	355.7	887.7	2419.1	3775.5	4214.1	4282.0
77.5°	230.6	232.1	233.6	226.1	223.1	235.1	357.2	1062.6	1858.4	2051.3	2212.6
80°	174.8	177.9	189.9	182.4	170.3	171.8	211.0	355.7	533.6	483.8	498.9
82.5°	119.1	120.6	146.2	137.2	128.1	116.1	135.6	183.9	208.0	158.3	138.7
85°	84.4	82.9	95.0	87.4	81.4	58.8	81.4	104.0	125.1	78.4	70.8
87.5°	19.6	19.6	39.2	31.7	30.1	24.1	31.7	40.7	54.3	34.7	31.7
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°	1431.8	1431.8	1431.8	1431.8	1431.8	1431.8	1431.8	1431.8	1431.8	1431.8
2.5°	1459.0	1445.4	1445.4	1442.4	1430.3	1427.3	1416.8	1419.8	1412.3	1404.7
5°	1510.2	1492.1	1492.1	1466.5	1442.4	1439.4	1427.3	1427.3	1415.3	1418.3
7.5°	1581.1	1564.5	1537.3	1514.7	1481.6	1468.0	1445.4	1442.4	1439.4	1433.4
10°	1665.5	1644.4	1617.2	1570.5	1543.4	1517.8	1495.1	1463.5	1456.0	1457.5
12.5°	1780.0	1746.9	1688.1	1647.4	1612.7	1579.6	1546.4	1499.7	1489.1	1493.6
15°	1861.4	1819.2	1760.4	1745.3	1698.6	1657.9	1603.7	1550.9	1532.8	1528.3
17.5°	1927.7	1893.0	1858.4	1835.8	1798.1	1748.4	1673.0	1612.7	1572.0	1567.5
20°	1982.0	1936.8	1929.2	1942.8	1896.1	1862.9	1771.0	1697.1	1642.9	1620.2
22.5°	2015.1	1986.5	2007.6	2019.7	2016.6	1960.9	1865.9	1780.0	1712.2	1691.1
25°	2051.3	2018.1	2093.5	2134.2	2144.8	2052.8	1979.0	1865.9	1799.6	1786.0
27.5°	2069.4	2081.5	2168.9	2254.8	2247.2	2176.4	2076.9	1975.9	1923.2	1899.1
30°	2122.1	2141.7	2274.4	2370.8	2372.3	2303.0	2227.6	2113.1	2054.3	2043.8
32.5°	2217.1	2241.2	2382.9	2485.4	2503.5	2450.7	2375.4	2304.5	2244.2	2220.1
35°	2289.4	2351.2	2511.0	2604.5	2652.7	2621.0	2578.8	2505.0	2441.7	2420.6
37.5°	2393.4	2479.4	2633.1	2759.7	2814.0	2810.9	2779.3	2699.4	2646.7	2628.6
40°	2542.7	2628.6	2768.7	2936.0	3037.0	3032.5	3014.4	2952.6	2874.2	2865.2
42.5°	2700.9	2771.7	2954.1	3145.5	3290.2	3275.2	3226.9	3154.6	3100.3	3088.3
45°	2854.6	2964.7	3133.5	3379.2	3487.7	3525.4	3468.1	3344.5	3282.7	3275.2
47.5°	3047.6	3135.0	3346.0	3566.0	3727.3	3733.3	3635.4	3520.8	3407.8	3431.9
50°	3219.4	3335.4	3549.5	3790.6	3983.5	3914.2	3789.1	3645.9	3564.5	3532.9
52.5°	3403.3	3544.9	3793.6	4039.3	4146.3	4077.0	3873.5	3713.8	3590.2	3576.6
55°	3671.6	3745.4	4071.0	4259.4	4294.0	4147.8	3847.9	3621.8	3462.0	3422.9
57.5°	3944.4	4030.3	4315.1	4477.9	4441.7	4108.6	3682.1	3332.4	3122.9	3067.2
60°	4220.2	4325.7	4565.3	4714.5	4527.6	3838.9	3213.4	2762.7	2518.5	2468.8
62.5°	4527.6	4664.8	4878.8	4931.6	4272.9	3305.3	2550.2	1994.0	1746.9	1664.0
65°	4800.4	4940.6	5204.4	4886.4	3731.8	2465.8	1648.9	1139.4	957.1	890.8
67.5°	5025.0	5183.3	5312.9	4324.2	2732.6	1443.9	859.1	599.9	532.0	507.9
70°	5202.9	5466.6	4860.7	3178.7	1561.5	703.9	464.2	394.9	385.8	379.8
72.5°	5047.6	5013.0	3629.3	1834.3	684.3	387.4	336.1	325.6	324.0	325.6
75°	4128.2	3682.1	2170.4	797.3	343.6	280.3	278.8	274.3	281.8	281.8
77.5°	2003.1	1751.4	907.3	342.1	226.1	220.1	227.6	227.6	227.6	227.6
80°	464.2	514.0	324.0	208.0	164.3	164.3	180.9	182.4	174.8	171.8
82.5°	158.3	211.0	177.9	131.1	108.5	122.1	137.2	140.2	116.1	117.6
85°	78.4	123.6	96.5	75.4	55.8	75.4	88.9	93.4	79.9	76.9
87.5°	36.2	54.3	36.2	25.6	19.6	27.1	25.6	21.1	12.1	12.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)