

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: P481237

Luminaire Tested: **IFLD-S-SA3A-735-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481237  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-735-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

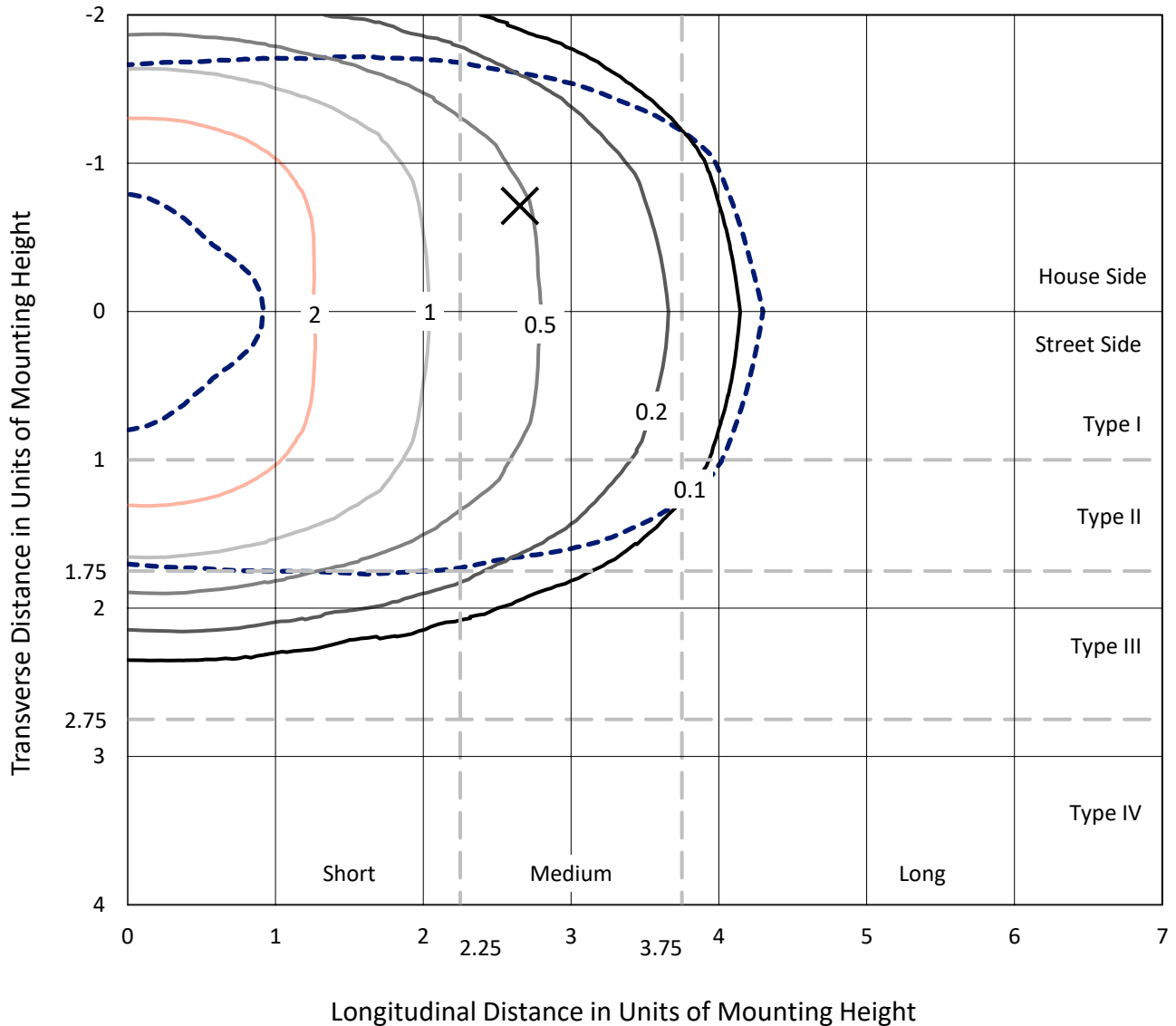
Lumens per Lamp: N/A  
Luminaire Lumens: 13977.5 lumens  
Efficiency: N/A  
Efficacy: 147.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 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

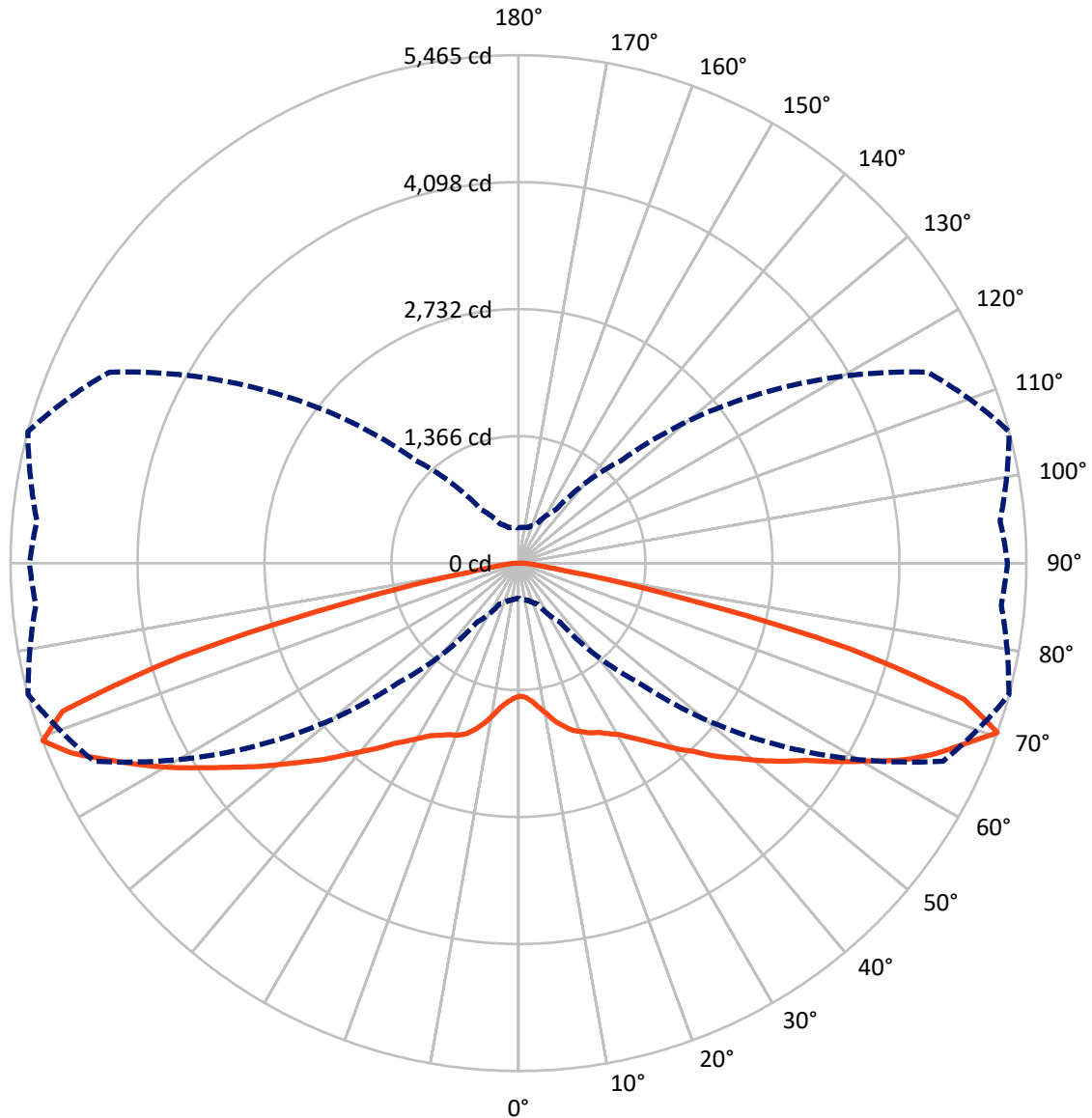
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 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
<b>House Side</b>	Lumens	6939.0	0.0	6939.0
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	7038.5	0.0	7038.5
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	13977.5	0.0	13977.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.5	1.0
10°-20°	485.1	3.5
20°-30°	939.3	6.7
30°-40°	1588.7	11.4
40°-50°	2534.4	18.1
50°-60°	3469.0	24.8
60°-70°	3269.8	23.4
70°-80°	1440.4	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°	13977.5	100.0
0°-180°	13977.5	100.0

**Coefficient of Utilization**



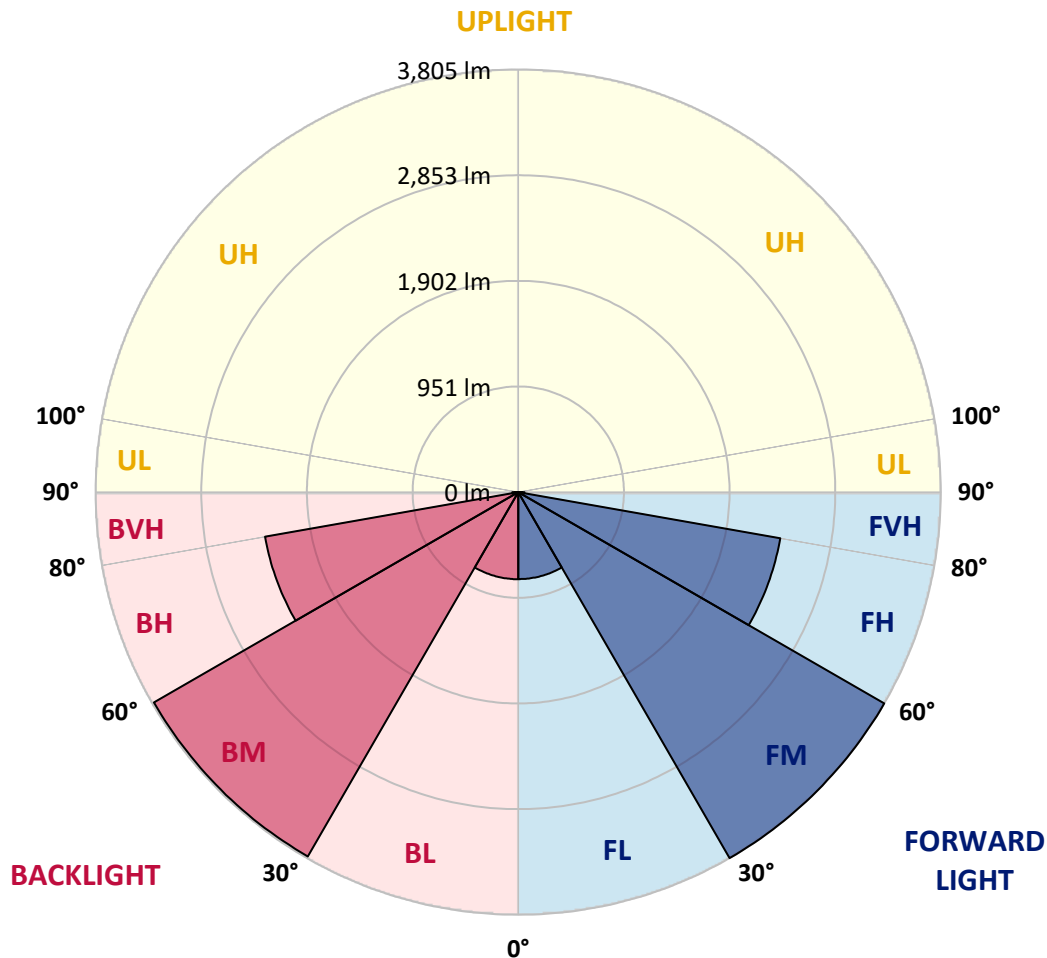
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	783.0	5.6			
FM (30°-60°)	3804.6	27.2			
FH (60°-80°)	2395.6	17.1			G2/5000
FVH (80°-90°)	55.4	0.4			G1/100
BL (0°-30°)	783.8	5.6	B2/1000		
BM (30°-60°)	3787.5	27.1	B3/5000		
BH (60°-80°)	2314.6	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°	1431.3	1431.3	1431.3	1431.3	1431.3	1431.3	1431.3	1431.3	1431.3	1431.3	1431.3
2.5°	1422.2	1422.2	1420.7	1428.3	1435.8	1438.8	1444.8	1446.3	1455.4	1447.9	1462.9
5°	1417.7	1416.2	1428.3	1446.3	1446.3	1465.9	1478.0	1494.6	1499.1	1508.1	1511.1
7.5°	1449.4	1446.3	1440.3	1459.9	1476.5	1506.6	1523.2	1551.8	1562.4	1574.4	1588.0
10°	1468.9	1468.9	1462.9	1497.6	1512.6	1553.3	1589.5	1618.1	1658.8	1672.3	1673.8
12.5°	1472.0	1476.5	1494.6	1539.8	1581.9	1634.7	1661.8	1716.0	1756.7	1782.3	1791.4
15°	1517.2	1508.1	1527.7	1589.5	1651.2	1698.0	1746.2	1785.3	1844.1	1877.2	1898.3
17.5°	1557.8	1548.8	1585.0	1658.8	1722.1	1794.4	1836.6	1878.7	1920.9	1951.1	1952.6
20°	1622.6	1630.2	1661.8	1741.6	1824.5	1887.8	1936.0	1943.5	1964.6	2008.3	2000.8
22.5°	1702.5	1696.4	1762.7	1850.1	1940.5	1993.2	2020.4	2000.8	1990.2	2036.9	2047.5
25°	1782.3	1800.4	1860.7	1942.0	2050.5	2121.3	2128.8	2074.6	2035.4	2052.0	2047.5
27.5°	1904.4	1907.4	1970.7	2067.1	2177.1	2238.8	2234.3	2157.5	2082.1	2083.6	2086.7
30°	2061.0	2046.0	2115.3	2202.7	2311.1	2366.9	2374.4	2264.4	2163.5	2133.4	2140.9
32.5°	2211.7	2229.8	2290.1	2389.5	2469.3	2501.0	2484.4	2386.5	2255.4	2214.7	2219.2
35°	2404.6	2401.5	2484.4	2568.8	2629.0	2635.1	2621.5	2478.4	2354.8	2302.1	2281.0
37.5°	2611.0	2638.1	2692.3	2761.6	2824.9	2827.9	2754.1	2639.6	2487.4	2400.0	2425.6
40°	2841.5	2871.6	2910.8	3011.7	3058.4	3010.2	2934.9	2779.7	2621.5	2544.7	2556.7
42.5°	3044.9	3058.4	3138.3	3257.3	3279.9	3258.8	3147.3	2959.0	2775.2	2690.8	2696.8
45°	3231.7	3249.8	3353.7	3460.7	3513.4	3477.3	3347.7	3168.4	2954.5	2882.2	2853.5
47.5°	3403.4	3439.6	3540.5	3650.5	3731.9	3734.9	3575.2	3358.2	3132.2	3037.3	3035.8
50°	3519.4	3572.2	3671.6	3796.7	3915.7	3962.4	3802.7	3569.2	3326.6	3225.7	3215.1
52.5°	3582.7	3637.0	3736.4	3930.8	4063.3	4135.7	4060.3	3766.5	3554.1	3448.6	3432.1
55°	3505.9	3542.0	3704.8	3977.5	4182.4	4301.4	4251.7	4039.2	3780.1	3694.2	3709.3
57.5°	3179.0	3254.3	3454.7	3795.2	4179.3	4471.6	4467.1	4296.9	4040.7	3959.4	3962.4
60°	2617.0	2680.3	2927.3	3403.4	4010.6	4540.9	4700.6	4547.0	4333.0	4238.1	4235.1
62.5°	1847.1	1927.0	2213.2	2733.0	3513.4	4444.5	4968.8	4861.8	4619.3	4550.0	4575.6
65°	1033.5	1081.7	1346.9	1817.0	2677.3	3914.2	5017.0	5188.8	4910.1	4804.6	4809.1
67.5°	552.9	571.0	694.5	953.7	1637.7	3017.7	4530.4	5377.1	5224.9	5042.6	5014.0
70°	379.7	385.7	417.3	488.1	774.4	1804.9	3417.0	5041.1	5461.5	5212.9	5261.1
72.5°	320.9	317.9	325.4	333.0	405.3	807.5	2005.3	3879.5	5155.6	5062.2	5044.1
75°	278.7	277.2	280.2	272.7	281.7	355.6	887.4	2418.1	3774.1	4212.5	4280.3
77.5°	230.5	232.0	233.5	226.0	223.0	235.0	357.1	1062.2	1857.7	2050.5	2211.7
80°	174.8	177.8	189.8	182.3	170.2	171.8	210.9	355.6	533.3	483.6	498.7
82.5°	119.0	120.5	146.1	137.1	128.1	116.0	135.6	183.8	207.9	158.2	138.6
85°	84.4	82.9	94.9	87.4	81.4	58.8	81.4	104.0	125.0	78.3	70.8
87.5°	19.6	19.6	39.2	31.6	30.1	24.1	31.6	40.7	54.2	34.7	31.6
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°	1431.3	1431.3	1431.3	1431.3	1431.3	1431.3	1431.3	1431.3	1431.3	1431.3
2.5°	1458.4	1444.8	1444.8	1441.8	1429.8	1426.8	1416.2	1419.2	1411.7	1404.2
5°	1509.6	1491.5	1491.5	1465.9	1441.8	1438.8	1426.8	1426.8	1414.7	1417.7
7.5°	1580.4	1563.9	1536.7	1514.1	1481.0	1467.4	1444.8	1441.8	1438.8	1432.8
10°	1664.8	1643.7	1616.6	1569.9	1542.8	1517.2	1494.6	1462.9	1455.4	1456.9
12.5°	1779.3	1746.2	1687.4	1646.7	1612.1	1578.9	1545.8	1499.1	1488.5	1493.1
15°	1860.7	1818.5	1759.7	1744.7	1698.0	1657.3	1603.0	1550.3	1532.2	1527.7
17.5°	1927.0	1892.3	1857.7	1835.1	1797.4	1747.7	1672.3	1612.1	1571.4	1566.9
20°	1981.2	1936.0	1928.5	1942.0	1895.3	1862.2	1770.3	1696.4	1642.2	1619.6
22.5°	2014.3	1985.7	2006.8	2018.9	2015.8	1960.1	1865.2	1779.3	1711.5	1690.4
25°	2050.5	2017.4	2092.7	2133.4	2143.9	2052.0	1978.2	1865.2	1798.9	1785.3
27.5°	2068.6	2080.6	2168.0	2253.9	2246.4	2175.5	2076.1	1975.2	1922.4	1898.3
30°	2121.3	2140.9	2273.5	2369.9	2371.4	2302.1	2226.8	2112.3	2053.5	2043.0
32.5°	2216.2	2240.3	2382.0	2484.4	2502.5	2449.8	2374.4	2303.6	2243.3	2219.2
35°	2288.5	2350.3	2510.0	2603.4	2651.6	2620.0	2577.8	2504.0	2440.7	2419.6
37.5°	2392.5	2478.4	2632.1	2758.6	2812.8	2809.8	2778.2	2698.3	2645.6	2627.5
40°	2541.7	2627.5	2767.6	2934.9	3035.8	3031.3	3013.2	2951.5	2873.1	2864.1
42.5°	2699.9	2770.7	2953.0	3144.3	3288.9	3273.9	3225.7	3153.3	3099.1	3087.1
45°	2853.5	2963.5	3132.2	3377.8	3486.3	3524.0	3466.7	3343.2	3281.4	3273.9
47.5°	3046.4	3133.8	3344.7	3564.6	3725.9	3731.9	3634.0	3519.4	3406.5	3430.6
50°	3218.1	3334.1	3548.1	3789.1	3982.0	3912.7	3787.6	3644.5	3563.1	3531.5
52.5°	3401.9	3543.6	3792.1	4037.7	4144.7	4075.4	3872.0	3712.3	3588.8	3575.2
55°	3670.1	3743.9	4069.4	4257.7	4292.3	4146.2	3846.4	3620.4	3460.7	3421.5
57.5°	3942.8	4028.7	4313.4	4476.1	4440.0	4107.0	3680.7	3331.1	3121.7	3066.0
60°	4218.5	4324.0	4563.5	4712.7	4525.9	3837.3	3212.1	2761.6	2517.6	2467.8
62.5°	4525.9	4663.0	4876.9	4929.6	4271.2	3304.0	2549.2	1993.2	1746.2	1663.3
65°	4798.6	4938.7	5202.3	4884.4	3730.4	2464.8	1648.2	1139.0	956.7	890.4
67.5°	5023.0	5181.2	5310.8	4322.5	2731.5	1443.3	858.8	599.6	531.8	507.7
70°	5200.8	5464.5	4858.8	3177.4	1560.9	703.6	464.0	394.7	385.7	379.7
72.5°	5045.6	5011.0	3627.9	1833.5	684.0	387.2	336.0	325.4	323.9	325.4
75°	4126.6	3680.7	2169.5	797.0	343.5	280.2	278.7	274.2	281.7	281.7
77.5°	2002.3	1750.7	907.0	342.0	226.0	220.0	227.5	227.5	227.5	227.5
80°	464.0	513.8	323.9	207.9	164.2	164.2	180.8	182.3	174.8	171.8
82.5°	158.2	210.9	177.8	131.1	108.5	122.0	137.1	140.1	116.0	117.5
85°	78.3	123.5	96.4	75.3	55.7	75.3	88.9	93.4	79.9	76.8
87.5°	36.2	54.2	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)