

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: P479288

Luminaire Tested: **IFLD-S-SA3B-735-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479288
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-735-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

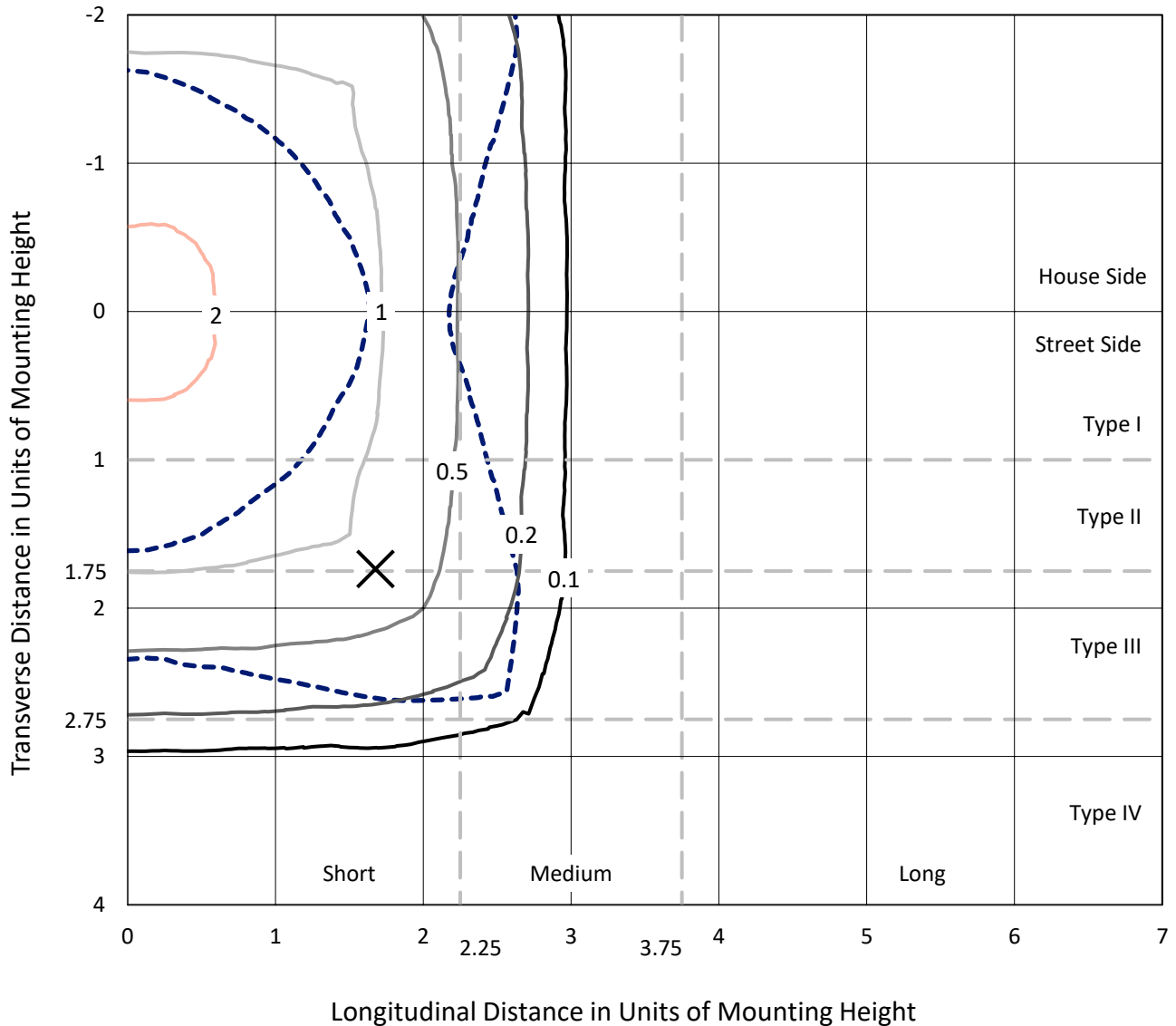
Lumens per Lamp: N/A
Luminaire Lumens: 16940.6 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 122.4
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

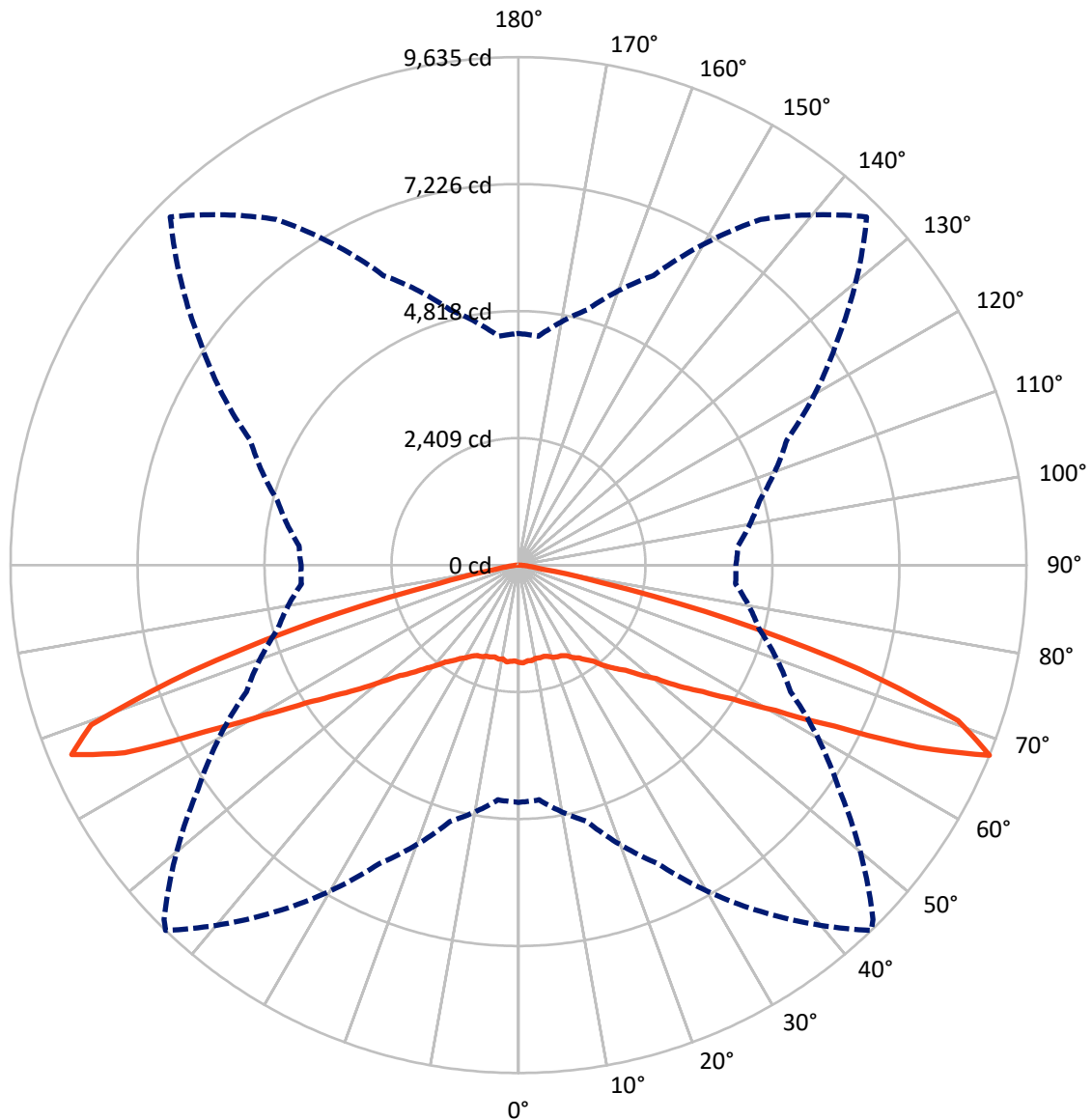
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8448.6	0.0	8448.6
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	8492.0	0.0	8492.0
	% Fixture	50.1	0.0	50.1
Total	Lumens	16940.6	0.0	16940.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.1	1.0
10°-20°	511.6	3.0
20°-30°	870.0	5.1
30°-40°	1379.4	8.1
40°-50°	2249.2	13.3
50°-60°	3841.3	22.7
60°-70°	5842.6	34.5
70°-80°	1969.3	11.6
80°-90°	102.2	0.6
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°	16940.6	100.0
0°-180°	16940.6	100.0

Coefficient of Utilization



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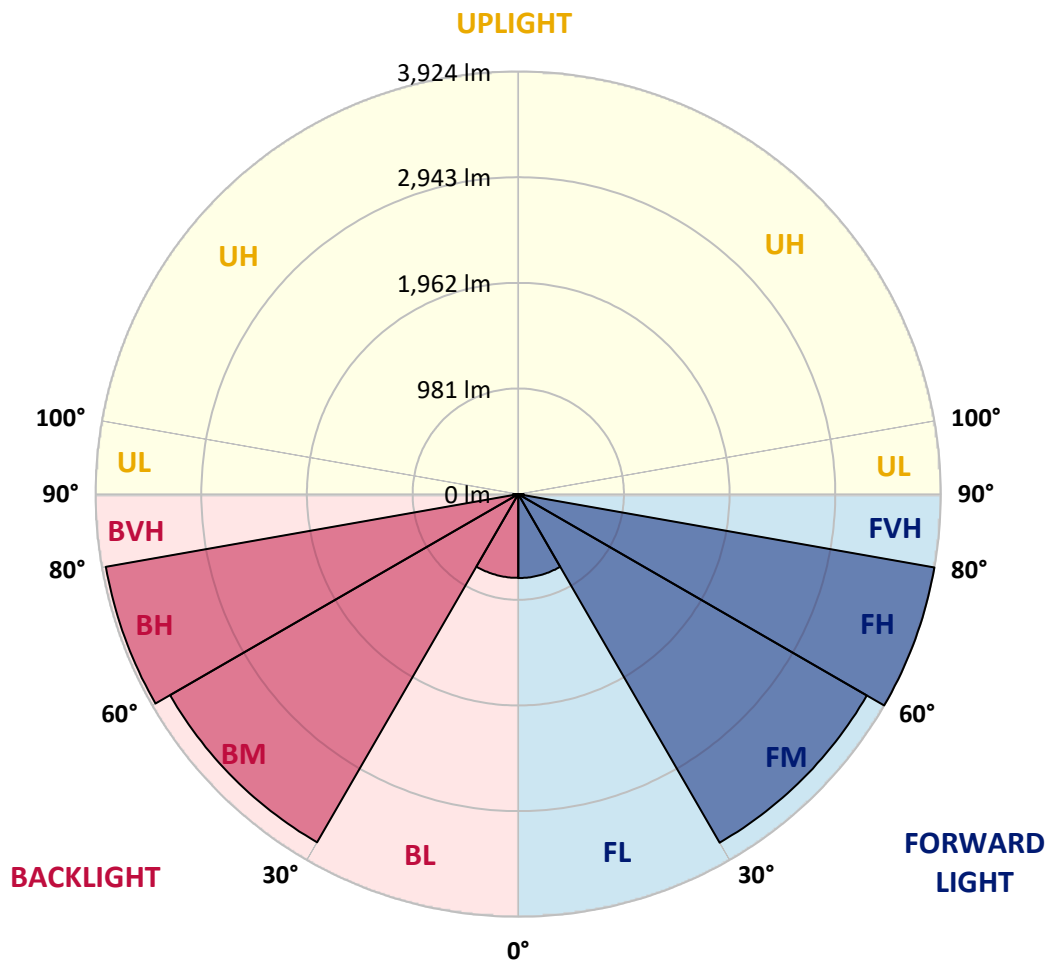
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	779.1	4.6			
FM (30°-60°)	3736.9	22.1			
FH (60°-80°)	3923.6	23.2			G2/5000
FVH (80°-90°)	52.3	0.3			G1/100
BL (0°-30°)	777.5	4.6	B2/1000		
BM (30°-60°)	3732.9	22.0	B3/5000		
BH (60°-80°)	3888.3	23.0	B4/5000		G2/5000
BVH (80°-90°)	49.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5
2.5°	1807.9	1829.2	1844.7	1842.7	1848.5	1854.3	1846.6	1858.2	1850.5	1864.0	1871.7
5°	1842.7	1836.9	1838.9	1827.3	1854.3	1823.4	1823.4	1838.9	1858.2	1835.0	1848.5
7.5°	1821.5	1817.6	1807.9	1825.3	1831.1	1831.1	1846.6	1817.6	1850.5	1858.2	1860.1
10°	1798.3	1777.0	1806.0	1823.4	1827.3	1796.3	1809.9	1817.6	1807.9	1817.6	1823.4
12.5°	1778.9	1790.5	1790.5	1790.5	1784.7	1806.0	1819.5	1817.6	1798.3	1815.7	1784.7
15°	1777.0	1771.2	1788.6	1804.1	1794.4	1798.3	1804.1	1821.5	1784.7	1792.5	1792.5
17.5°	1775.1	1782.8	1788.6	1786.7	1819.5	1819.5	1813.7	1802.1	1831.1	1815.7	1794.4
20°	1782.8	1777.0	1792.5	1798.3	1821.5	1867.9	1850.5	1840.8	1825.3	1806.0	1806.0
22.5°	1792.5	1788.6	1809.9	1835.0	1879.5	1891.1	1889.1	1877.5	1850.5	1827.3	1823.4
25°	1827.3	1792.5	1815.7	1864.0	1879.5	1902.7	1918.2	1902.7	1865.9	1871.7	1836.9
27.5°	1879.5	1873.7	1904.6	1937.5	1924.0	1945.2	1931.7	1943.3	1945.2	1916.2	1881.4
30°	1941.4	1924.0	1943.3	2007.1	2012.9	2036.1	2012.9	1982.0	1991.6	1966.5	1949.1
32.5°	2030.3	2024.5	2061.2	2103.8	2111.5	2099.9	2088.3	2105.7	2065.1	2045.8	2014.8
35°	2088.3	2113.4	2157.9	2190.8	2215.9	2204.3	2210.1	2192.7	2202.4	2161.8	2148.3
37.5°	2260.4	2250.7	2260.4	2316.5	2322.3	2316.5	2322.3	2341.6	2328.1	2293.3	2258.5
40°	2422.8	2407.4	2430.6	2494.4	2490.5	2509.8	2471.2	2492.4	2492.4	2426.7	2413.2
42.5°	2544.6	2596.9	2623.9	2676.1	2695.5	2678.1	2670.3	2674.2	2716.7	2639.4	2610.4
45°	2796.0	2794.1	2875.3	2904.3	2850.2	2846.3	2830.8	2877.2	2906.2	2861.8	2850.2
47.5°	3068.7	3082.2	3128.6	3140.2	3173.1	3113.1	3113.1	3118.9	3221.4	3117.0	3062.9
50°	3314.2	3331.6	3424.4	3515.3	3453.4	3389.6	3414.8	3445.7	3501.8	3403.2	3356.8
52.5°	3612.0	3706.7	3768.6	3817.0	3861.4	3817.0	3759.0	3793.8	3904.0	3772.5	3714.5
55°	4041.3	4116.7	4174.7	4263.6	4300.4	4240.4	4234.6	4230.8	4292.6	4153.4	4074.1
57.5°	4520.8	4489.9	4582.7	4720.0	4853.4	4795.4	4778.0	4781.8	4797.3	4600.1	4540.1
60°	5116.4	5151.2	5261.4	5381.3	5522.4	5603.6	5489.5	5423.8	5437.3	5168.6	5075.8
62.5°	5456.7	5534.0	5783.5	6195.3	6479.6	6732.9	6750.3	6322.9	6036.8	5514.7	5120.2
65°	5292.3	5280.7	5750.6	6512.4	7589.5	8326.2	8215.9	7179.5	6179.8	5350.3	4820.5
67.5°	4501.5	4470.5	5039.0	6247.5	8026.5	9635.2	9509.5	7421.2	5696.4	4733.5	4134.1
70°	2900.4	2892.7	3509.5	4762.5	7166.0	8846.3	8892.7	6740.6	4636.8	3467.0	2873.4
72.5°	1053.8	1117.6	1475.4	2560.1	4866.9	6767.7	6796.7	4990.7	2666.5	1603.0	1181.4
75°	388.7	400.3	466.0	831.5	2217.9	4155.3	4263.6	2420.9	947.5	522.1	425.4
77.5°	224.3	226.2	249.4	309.4	657.4	1622.3	1688.0	734.8	367.4	278.4	257.2
80°	152.8	150.8	176.0	201.1	263.0	460.2	489.2	307.4	232.0	193.4	162.4
82.5°	88.9	94.7	129.6	143.1	160.5	203.0	206.9	191.4	174.0	143.1	106.3
85°	54.1	44.5	71.5	79.3	92.8	90.9	90.9	104.4	112.1	100.5	59.9
87.5°	13.5	13.5	17.4	19.3	25.1	19.3	21.3	40.6	54.1	50.3	30.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5	1850.5
2.5°	1854.3	1848.5	1852.4	1873.7	1860.1	1819.5	1829.2	1850.5	1833.1	1823.4	1821.5
5°	1846.6	1858.2	1844.7	1848.5	1862.1	1829.2	1835.0	1862.1	1850.5	1854.3	1833.1
7.5°	1848.5	1854.3	1842.7	1825.3	1825.3	1852.4	1836.9	1840.8	1823.4	1852.4	1813.7
10°	1836.9	1821.5	1807.9	1817.6	1813.7	1806.0	1800.2	1811.8	1794.4	1819.5	1792.5
12.5°	1802.1	1806.0	1802.1	1798.3	1806.0	1825.3	1794.4	1798.3	1771.2	1775.1	1788.6
15°	1788.6	1800.2	1796.3	1817.6	1827.3	1798.3	1821.5	1798.3	1777.0	1765.4	1786.7
17.5°	1794.4	1811.8	1806.0	1821.5	1804.1	1825.3	1829.2	1819.5	1794.4	1784.7	1794.4
20°	1800.2	1794.4	1802.1	1829.2	1854.3	1833.1	1833.1	1827.3	1804.1	1790.5	1790.5
22.5°	1813.7	1804.1	1815.7	1836.9	1844.7	1877.5	1848.5	1835.0	1796.3	1761.5	1794.4
25°	1840.8	1846.6	1854.3	1846.6	1889.1	1885.3	1881.4	1871.7	1811.8	1813.7	1807.9
27.5°	1893.0	1860.1	1869.8	1916.2	1922.0	1937.5	1918.2	1935.6	1871.7	1873.7	1835.0
30°	1956.8	1922.0	1953.0	1993.6	1991.6	2020.6	2011.0	2014.8	1970.4	1945.2	1893.0
32.5°	2026.4	2022.6	2041.9	2067.0	2076.7	2092.2	2090.2	2090.2	2063.2	1997.4	2007.1
35°	2103.8	2130.8	2154.1	2181.1	2185.0	2204.3	2177.3	2181.1	2154.1	2105.7	2121.2
37.5°	2256.5	2254.6	2279.7	2312.6	2316.5	2301.0	2322.3	2312.6	2275.9	2243.0	2217.9
40°	2434.4	2395.8	2419.0	2496.3	2502.1	2475.0	2473.1	2471.2	2444.1	2372.6	2357.1
42.5°	2589.1	2639.4	2635.5	2660.7	2643.3	2629.7	2678.1	2651.0	2629.7	2554.3	2540.8
45°	2788.3	2803.7	2854.0	2935.2	2852.1	2852.1	2885.0	2863.7	2852.1	2796.0	2743.8
47.5°	3035.8	3049.3	3149.9	3155.7	3101.5	3064.8	3167.3	3171.1	3122.8	3080.3	3016.4
50°	3325.8	3331.6	3422.5	3515.3	3455.4	3385.8	3490.2	3530.8	3422.5	3364.5	3285.2
52.5°	3644.9	3627.5	3702.9	3876.9	3818.9	3797.6	3909.8	3919.4	3772.5	3681.6	3702.9
55°	4012.3	3989.1	4194.0	4312.0	4275.2	4236.6	4286.8	4310.0	4192.1	4043.2	4095.4
57.5°	4487.9	4499.5	4602.0	4718.0	4778.0	4787.6	4810.8	4787.6	4667.8	4516.9	4468.6
60°	4963.6	4998.4	5197.6	5416.1	5435.4	5605.6	5574.6	5458.6	5288.4	5073.8	5083.5
62.5°	5139.6	5110.6	5431.5	5965.2	6419.6	6730.9	6593.6	6181.8	5787.3	5396.7	5425.7
65°	4785.7	4857.3	5294.3	6129.6	7115.7	8347.4	7616.5	6477.6	5681.0	5176.3	5120.2
67.5°	4124.4	4178.6	4733.5	5615.2	7365.2	9341.3	8003.3	6060.0	5010.0	4356.4	4391.3
70°	2873.4	2900.4	3443.8	4600.1	6678.7	8815.4	7220.1	4654.2	3459.2	2757.3	2796.0
72.5°	1156.3	1222.0	1579.8	2770.9	4930.7	6698.1	4861.1	2442.2	1434.7	1067.4	968.7
75°	427.3	429.3	504.7	953.3	2341.6	4209.5	2192.7	785.0	458.3	375.1	357.7
77.5°	247.5	245.6	263.0	344.2	678.7	1643.6	622.6	307.4	249.4	224.3	214.6
80°	154.7	152.8	179.8	228.2	297.8	450.5	263.0	191.4	168.2	145.0	145.0
82.5°	98.6	100.5	141.2	168.2	181.8	199.2	152.8	135.4	125.7	83.1	81.2
85°	63.8	58.0	98.6	112.1	100.5	88.9	85.1	71.5	65.7	40.6	44.5
87.5°	29.0	30.9	50.3	56.1	36.7	21.3	21.3	15.5	15.5	9.7	9.7
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)