

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: P479052

Luminaire Tested: **IFLD-S-SA2E-827-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479052  
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-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

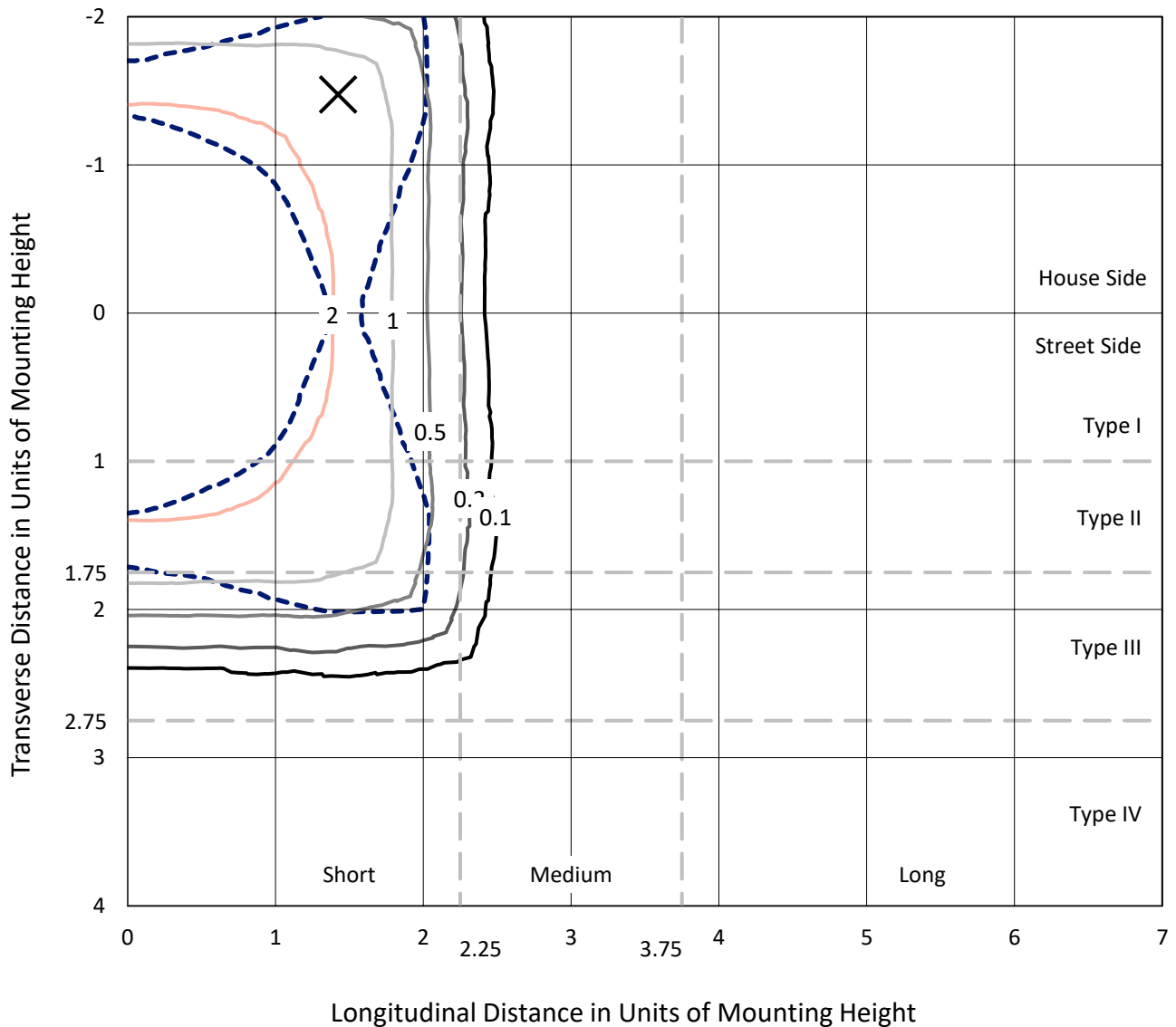
Lumens per Lamp: N/A  
Luminaire Lumens: 13269.9 lumens  
Efficiency: N/A  
Efficacy: 85.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

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

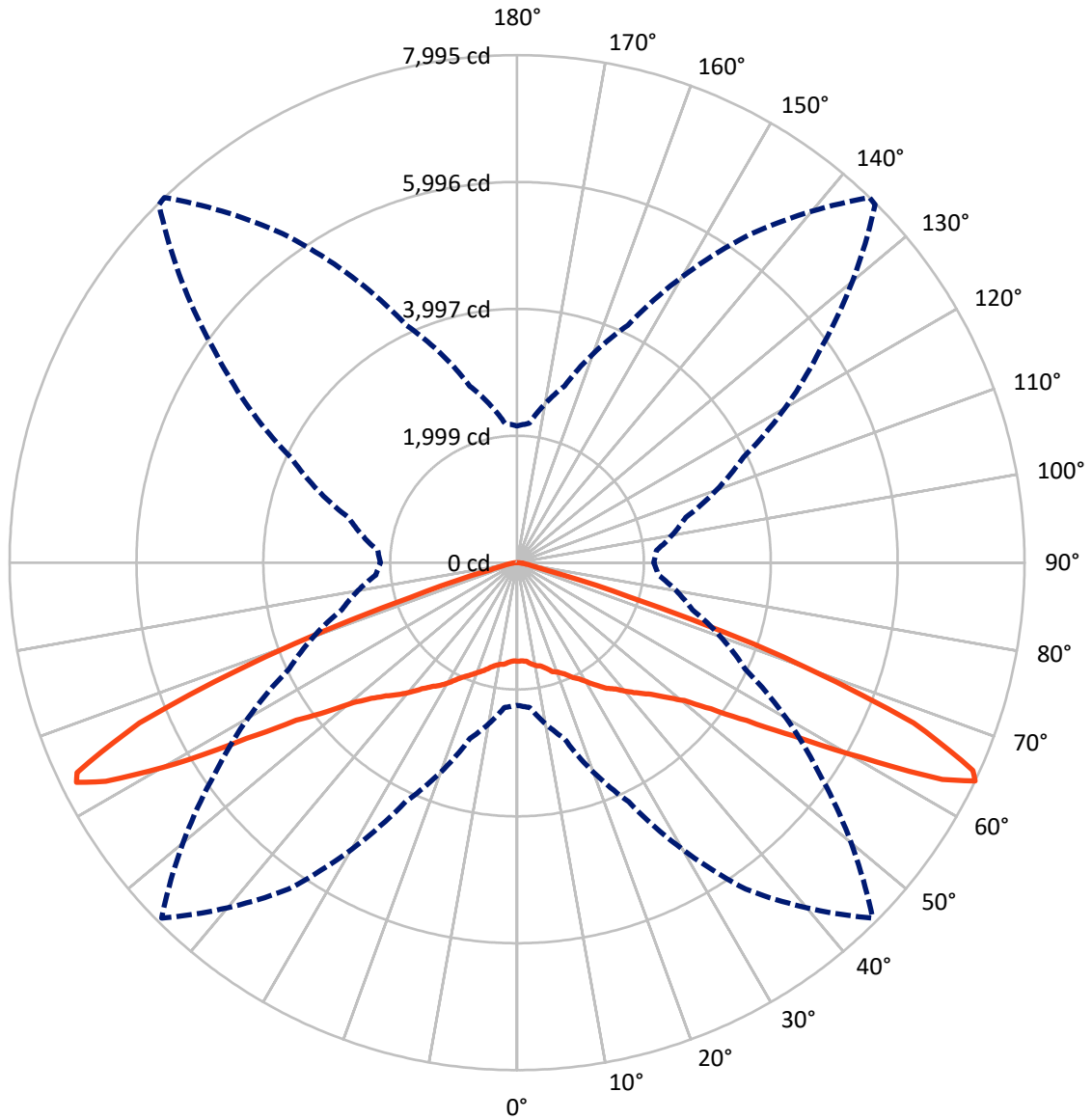
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6641.3	0.0	6641.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6628.6	0.0	6628.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13269.9	0.0	13269.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.7	1.2
10°-20°	492.0	3.7
20°-30°	924.7	7.0
30°-40°	1525.0	11.5
40°-50°	2385.0	18.0
50°-60°	3853.5	29.0
60°-70°	3469.8	26.1
70°-80°	411.0	3.1
80°-90°	56.3	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°	13269.9	100.0
0°-180°	13269.9	100.0

**Coefficient of Utilization**



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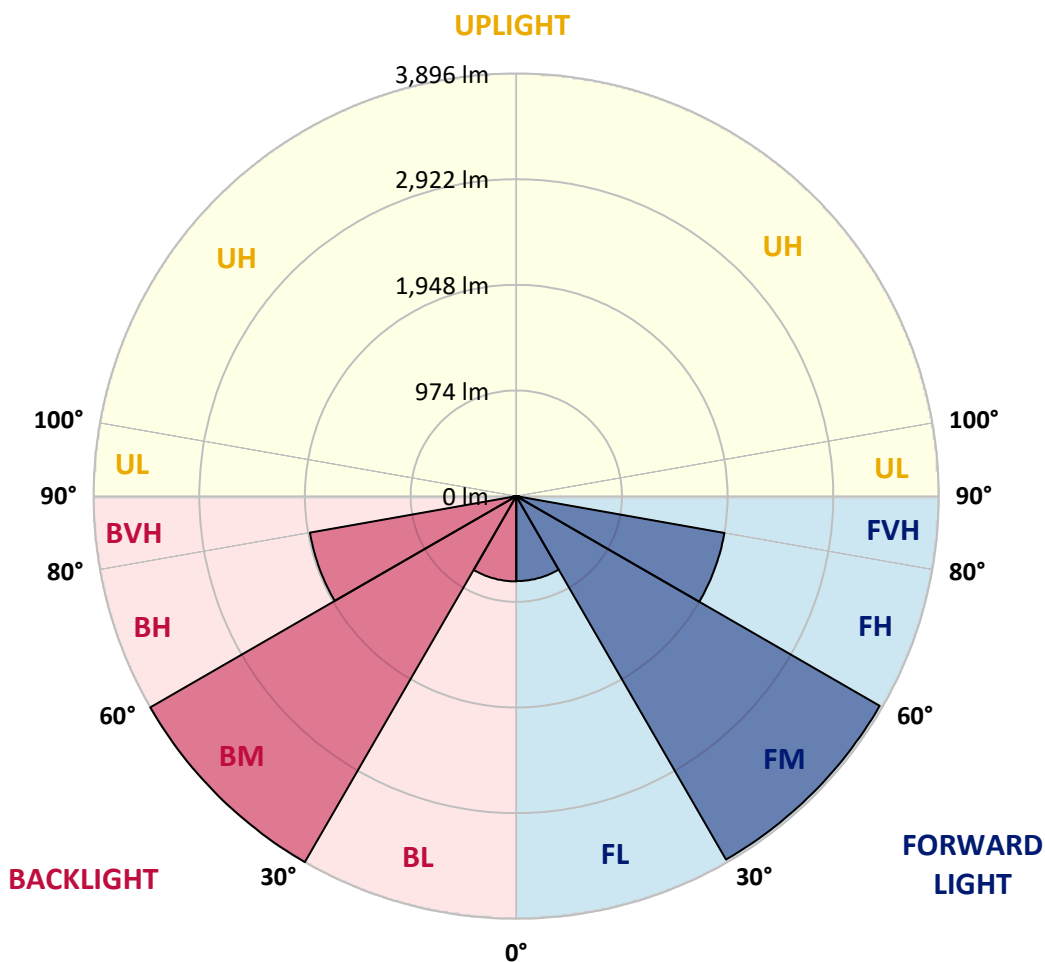
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	783.2	5.9			
FM (30°-60°)	3867.8	29.1			
FH (60°-80°)	1948.8	14.7			G2/5000
FVH (80°-90°)	28.9	0.2			G1/100
BL (0°-30°)	786.2	5.9	B2/1000		
BM (30°-60°)	3895.7	29.4	B3/5000		
BH (60°-80°)	1932.0	14.6	B3/2500		G2/5000
BVH (80°-90°)	27.4	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-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6
2.5°	1535.4	1538.4	1565.8	1555.2	1564.3	1547.5	1559.7	1585.6	1555.2	1578.0	1585.6
5°	1552.1	1556.7	1556.7	1567.3	1573.4	1570.4	1578.0	1567.3	1596.2	1584.1	1602.3
7.5°	1613.0	1605.4	1593.2	1602.3	1603.8	1611.5	1619.1	1632.8	1628.2	1617.5	1635.8
10°	1623.6	1617.5	1635.8	1637.3	1629.7	1623.6	1631.2	1631.2	1644.9	1648.0	1648.0
12.5°	1641.9	1648.0	1646.5	1658.6	1660.1	1655.6	1667.8	1690.6	1684.5	1689.1	1678.4
15°	1711.9	1704.3	1702.8	1714.9	1734.7	1705.8	1727.1	1725.6	1719.5	1728.6	1704.3
17.5°	1772.8	1748.4	1759.1	1778.8	1771.2	1777.3	1804.7	1780.4	1786.4	1775.8	1768.2
20°	1826.0	1806.2	1807.8	1815.4	1815.4	1833.6	1844.3	1835.1	1829.1	1827.5	1830.6
22.5°	1885.4	1862.5	1864.1	1896.0	1906.7	1900.6	1893.0	1908.2	1911.2	1899.1	1912.7
25°	1929.5	1953.8	1961.4	1976.7	1953.8	1970.6	1964.5	1993.4	2011.7	1987.3	2004.0
27.5°	2045.1	2034.5	2054.3	2052.7	2071.0	2054.3	2064.9	2074.0	2081.7	2083.2	2075.6
30°	2148.6	2153.2	2133.4	2186.6	2144.0	2171.4	2189.7	2194.3	2203.4	2203.4	2180.6
32.5°	2258.2	2249.0	2281.0	2268.8	2261.2	2282.5	2262.7	2325.1	2288.6	2309.9	2284.0
35°	2381.4	2381.4	2393.6	2427.1	2381.4	2367.7	2404.2	2430.1	2430.1	2392.1	2401.2
37.5°	2519.9	2507.7	2522.9	2565.5	2530.5	2484.9	2551.9	2562.5	2554.9	2544.2	2526.0
40°	2617.3	2614.2	2644.7	2701.0	2650.8	2641.6	2653.8	2682.7	2691.8	2702.5	2678.2
42.5°	2781.6	2795.3	2883.6	2869.9	2828.8	2796.8	2793.8	2901.8	2876.0	2848.6	2834.9
45°	3025.1	3012.9	3058.6	3060.1	3006.8	2936.8	2952.1	3051.0	3095.1	3034.2	3057.0
47.5°	3218.3	3224.4	3256.4	3321.8	3198.6	3125.5	3181.8	3341.6	3327.9	3305.1	3326.4
50°	3477.0	3504.4	3604.9	3582.0	3472.5	3382.7	3505.9	3656.6	3673.3	3589.6	3574.4
52.5°	3834.6	3877.2	3932.0	3950.3	3845.3	3813.3	3820.9	4008.1	3967.0	3886.4	3834.6
55°	4148.1	4167.9	4268.3	4418.9	4411.3	4257.7	4345.9	4415.9	4248.5	4082.7	4096.4
57.5°	4282.0	4291.1	4571.1	4872.4	5052.0	5087.0	4986.5	4750.7	4352.0	4032.4	4012.7
60°	3948.8	4035.5	4373.3	5053.5	5873.7	6278.4	5610.4	4788.7	4110.0	3722.0	3693.1
62.5°	3156.0	3160.5	3662.7	4694.4	6385.0	7445.6	5849.3	4431.1	3464.9	3025.1	2909.4
64°	2247.5	2290.1	2866.8	4155.7	6278.4	7920.3	5820.4	3964.0	2856.2	2232.3	2151.7
65°	1613.0	1672.3	2229.3	3607.9	6028.9	7864.0	5733.7	3562.2	2309.9	1704.3	1622.1
67.5°	593.5	617.8	875.0	1804.7	4329.2	6701.5	4543.7	1958.4	1015.0	722.8	649.8
70°	275.4	276.9	324.1	596.5	1893.0	4481.3	2168.4	735.0	381.9	302.8	281.5
72.5°	202.4	206.9	226.7	275.4	556.9	1897.5	712.1	301.3	223.7	197.8	193.3
75°	164.3	167.4	173.5	199.3	257.2	508.2	289.1	208.5	178.0	159.8	153.7
77.5°	126.3	126.3	140.0	152.2	170.4	237.4	191.7	165.9	144.6	126.3	121.7
80°	91.3	92.8	109.6	118.7	115.6	156.7	138.5	137.0	118.7	98.9	91.3
82.5°	53.3	57.8	79.1	85.2	82.2	92.8	100.4	106.5	92.8	68.5	62.4
85°	30.4	32.0	45.7	47.2	47.2	44.1	57.8	63.9	62.4	42.6	38.0
87.5°	9.1	9.1	12.2	12.2	13.7	15.2	22.8	27.4	30.4	21.3	19.8
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°	136°	145°	155°	165°	175°	180°
0°	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6	1553.6
2.5°	1578.0	1555.2	1556.7	1562.8	1543.0	1550.6	1573.4	1556.7	1552.1	1543.0	1538.4
5°	1570.4	1594.7	1585.6	1588.6	1584.1	1562.8	1559.7	1573.4	1581.0	1567.3	1594.7
7.5°	1623.6	1613.0	1600.8	1605.4	1594.7	1613.0	1625.2	1597.8	1611.5	1603.8	1588.6
10°	1654.1	1634.3	1643.4	1640.4	1632.8	1651.0	1638.8	1635.8	1623.6	1606.9	1631.2
12.5°	1664.7	1687.5	1702.8	1676.9	1681.5	1672.3	1664.7	1664.7	1651.0	1646.5	1651.0
15°	1711.9	1731.7	1725.6	1745.4	1719.5	1728.6	1737.8	1714.9	1727.1	1693.6	1719.5
17.5°	1798.6	1781.9	1803.2	1777.3	1786.4	1804.7	1775.8	1775.8	1784.9	1766.7	1743.8
20°	1853.4	1845.8	1838.2	1839.7	1824.5	1841.2	1832.1	1827.5	1813.8	1819.9	1832.1
22.5°	1905.1	1894.5	1897.5	1902.1	1912.7	1905.1	1900.6	1905.1	1871.7	1902.1	1859.5
25°	1969.1	1998.0	1988.8	2008.6	1978.2	1998.0	1996.4	1967.5	1985.8	1973.6	1964.5
27.5°	2075.6	2060.4	2074.0	2049.7	2071.0	2072.5	2054.3	2103.0	2081.7	2078.6	2072.5
30°	2212.5	2201.9	2192.7	2179.0	2195.8	2182.1	2197.3	2201.9	2182.1	2166.9	2138.0
32.5°	2290.1	2319.0	2329.7	2296.2	2297.7	2305.3	2291.6	2278.0	2290.1	2294.7	2290.1
35°	2399.7	2427.1	2433.2	2407.3	2393.6	2431.6	2404.2	2449.9	2410.3	2411.9	2370.8
37.5°	2527.5	2535.1	2586.9	2557.9	2545.8	2527.5	2577.7	2571.6	2580.8	2507.7	2544.2
40°	2672.1	2699.5	2728.4	2655.3	2653.8	2670.5	2667.5	2702.5	2685.8	2675.1	2649.2
42.5°	2830.3	2888.1	2892.7	2844.0	2813.6	2810.5	2825.8	2903.4	2904.9	2834.9	2804.5
45°	3040.3	3104.2	3087.5	2993.1	2959.7	2955.1	3029.7	3063.1	3092.0	3064.7	3038.8
47.5°	3302.0	3344.6	3332.5	3245.7	3137.7	3168.1	3241.2	3346.2	3315.7	3279.2	3248.8
50°	3582.0	3632.2	3606.4	3519.6	3416.2	3416.2	3505.9	3639.9	3630.7	3559.2	3531.8
52.5°	3892.4	3965.5	4024.8	3901.6	3814.8	3828.5	3970.1	4018.7	3995.9	3945.7	3922.9
55°	4123.7	4263.7	4385.5	4391.6	4396.1	4394.6	4431.1	4479.8	4317.0	4236.3	4154.2
57.5°	4067.4	4332.2	4749.2	5032.2	5115.9	5160.0	5147.8	4922.6	4537.6	4272.9	4300.3
60°	3665.7	4097.9	4770.5	5678.9	6287.6	6226.7	6004.5	5114.4	4415.9	3968.5	3912.2
62.5°	2924.7	3445.1	4412.9	5861.5	7538.4	7520.1	6357.6	4671.5	3679.4	3113.4	3078.4
64°	2203.4	2751.2	3936.6	5814.3	7976.6	7994.9	6267.8	4126.8	2879.0	2203.4	2150.1
65°	1686.0	2194.3	3469.4	5716.9	7882.3	7892.9	6018.2	3563.8	2188.2	1564.3	1506.5
67.5°	671.1	934.3	1882.3	4335.3	6768.4	6739.5	4294.2	1724.1	836.9	544.8	534.1
70°	286.1	356.1	660.4	2054.3	4531.6	4447.9	1848.8	560.0	310.4	260.2	258.7
72.5°	196.3	217.6	283.0	634.5	1883.8	1839.7	526.5	260.2	211.5	194.8	194.8
75°	158.3	173.5	205.4	266.3	499.1	480.8	248.0	191.7	168.9	156.7	155.2
77.5°	123.3	138.5	161.3	184.1	228.3	226.7	165.9	144.6	130.9	121.7	118.7
80°	97.4	112.6	127.8	130.9	149.1	146.1	112.6	114.1	106.5	88.3	86.7
82.5°	67.0	91.3	102.0	92.8	88.3	88.3	80.6	80.6	74.6	54.8	50.2
85°	41.1	60.9	63.9	54.8	41.1	41.1	44.1	42.6	39.6	28.9	27.4
87.5°	21.3	28.9	25.9	21.3	13.7	13.7	12.2	9.1	9.1	7.6	7.6
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)