

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: P197002

Luminaire Tested: **NVN-AF-04-LED-U-RW-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P197002  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24161)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-AF-04-LED-U-RW-8030-800  
Description: NAVION ROADWAY AND AREA LUMINAIRE  
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16437 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Medium - Full Cutoff  
BUG Rating: B4 - U0 - G2

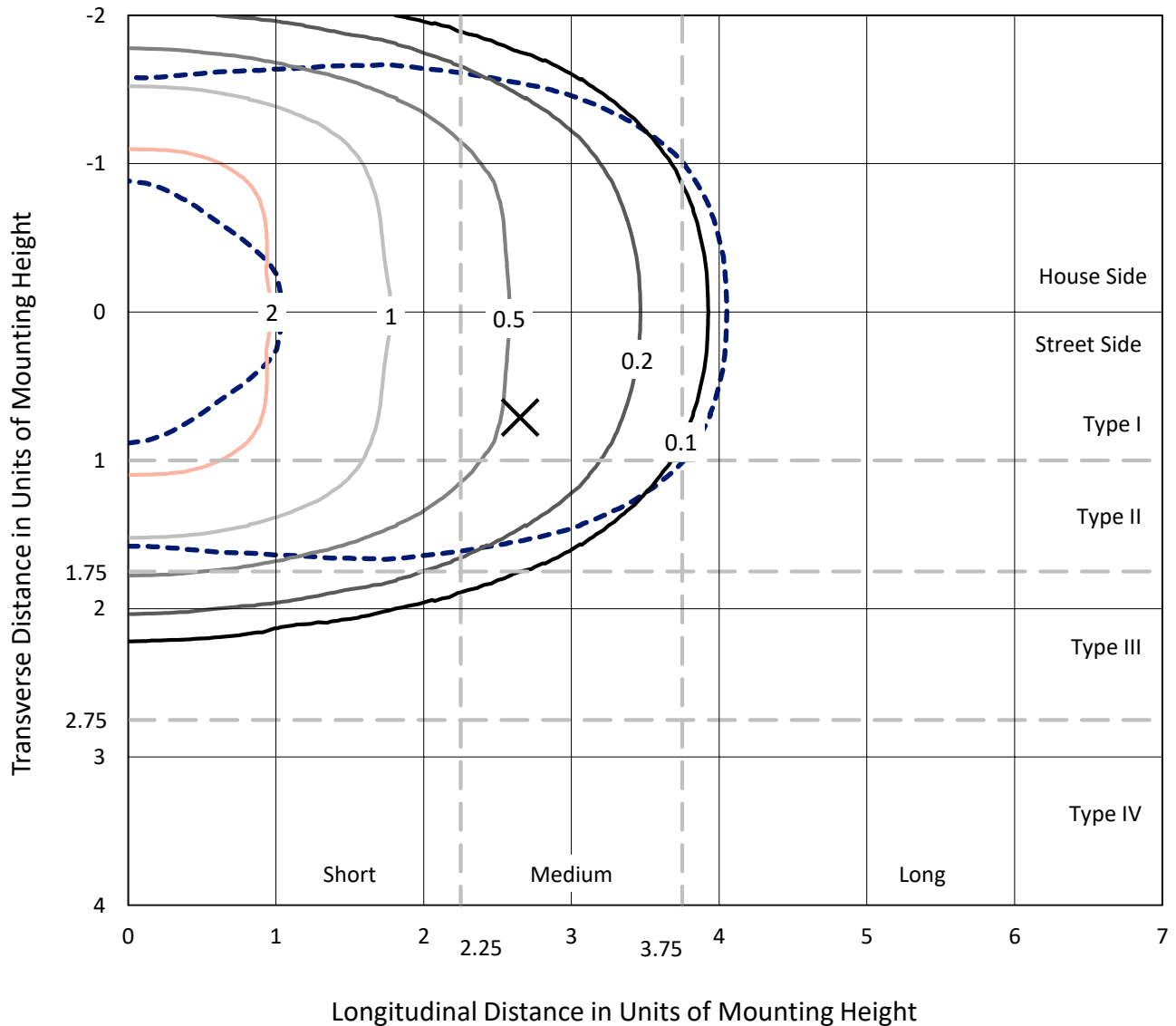
Input Watts (W): 171  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

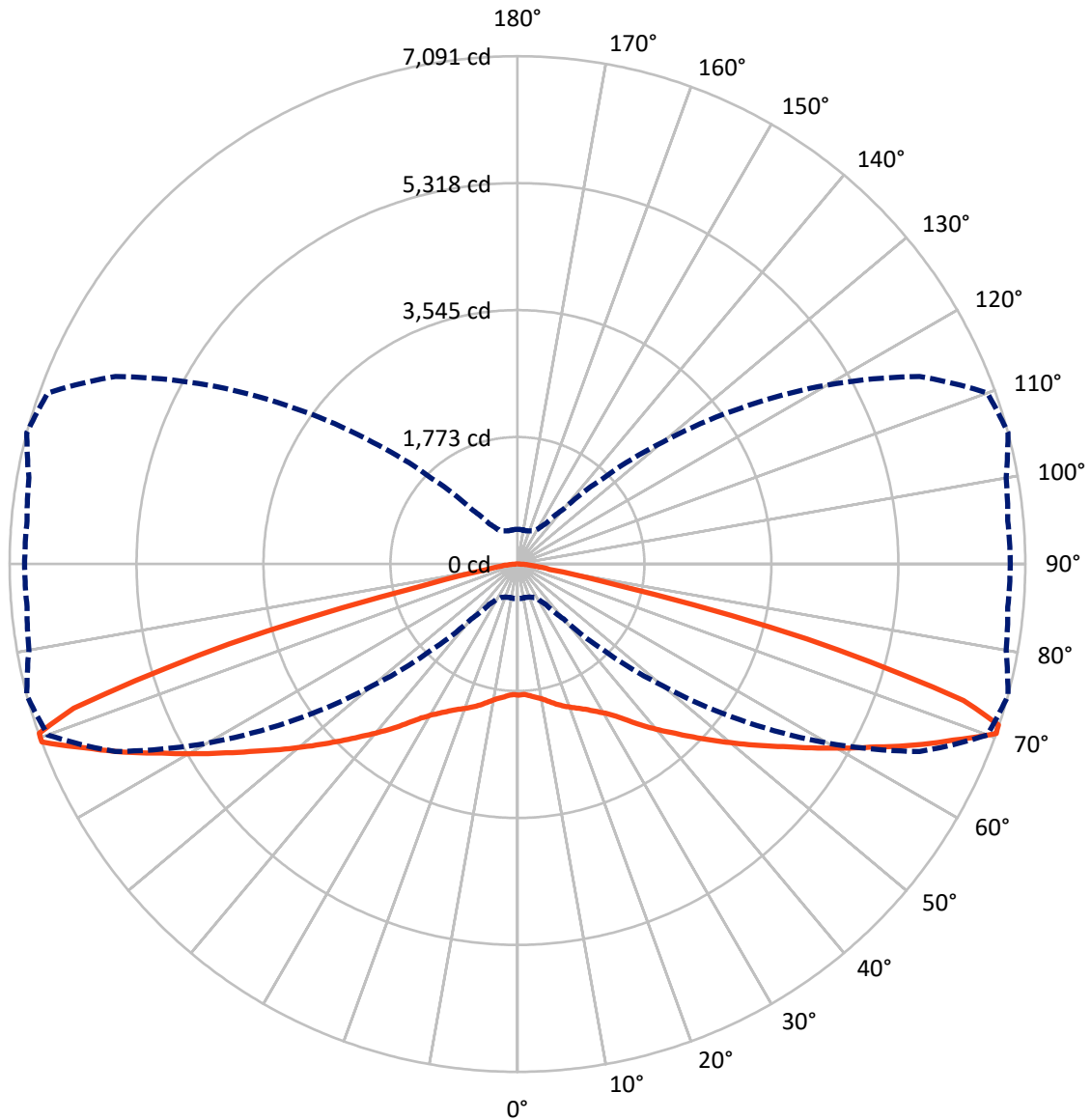
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type V - Medium - Full Cutoff

REPORT NUMBER: P197002  
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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8218.5	0.0	8218.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8218.5	0.0	8218.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16437.0	0.0	16437.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.6	1.1
10°-20°	544.5	3.3
20°-30°	1022.7	6.2
30°-40°	1801.5	11.0
40°-50°	2985.6	18.2
50°-60°	4153.4	25.3
60°-70°	3920.9	23.9
70°-80°	1674.6	10.2
80°-90°	158.2	1.0
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°	16437.0	100.0
0°-180°	16437.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P197002

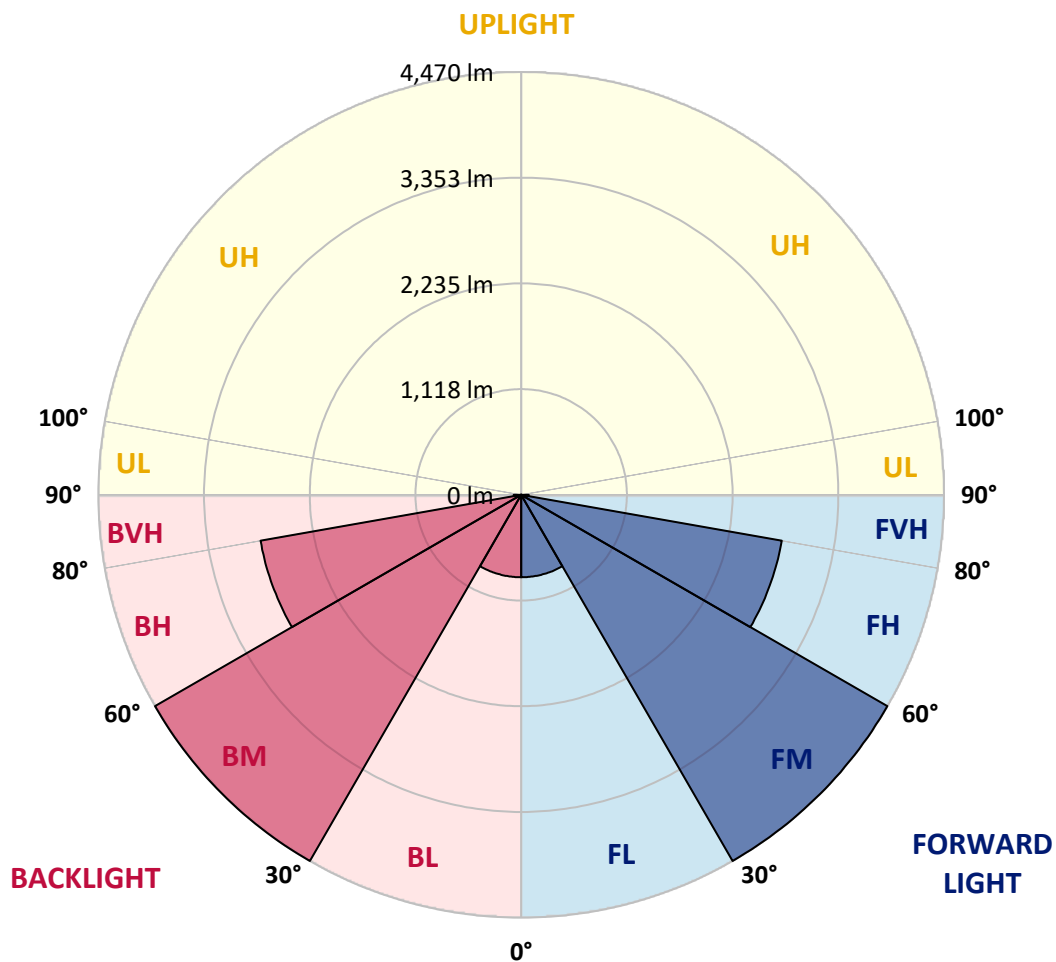
CATALOG NUMBER: NVN-AF-04-LED-U-RW-8030-800

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	871.4	5.3			
FM	(30°-60°)	4470.2	27.2			
FH	(60°-80°)	2797.8	17.0			G2/5000
FVH	(80°-90°)	79.1	0.5			G1/100
BL	(0°-30°)	871.4	5.3	B2/1000		
BM	(30°-60°)	4470.2	27.2	B3/5000		
BH	(60°-80°)	2797.8	17.0	B4/5000		G2/5000
BVH	(80°-90°)	79.1	0.5			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1830.4	1830.4	1830.4	1830.4	1830.4	1830.4	1830.4	1830.4	1830.4	1830.4	1830.4
2.5°	1841.8	1840.7	1841.8	1838.7	1839.7	1838.7	1838.7	1834.5	1834.5	1832.5	1829.4
5°	1821.1	1823.2	1823.2	1823.2	1826.3	1826.3	1830.4	1831.5	1834.5	1837.6	1839.7
7.5°	1787.2	1788.2	1791.3	1793.3	1799.5	1807.8	1816.0	1825.3	1833.5	1843.8	1855.1
10°	1758.3	1760.4	1765.5	1770.7	1782.0	1792.3	1806.7	1821.1	1835.6	1853.1	1870.6
12.5°	1742.9	1746.0	1754.2	1762.4	1779.9	1793.3	1812.9	1835.6	1855.1	1871.6	1891.2
15°	1744.9	1746.0	1757.3	1768.6	1793.3	1811.9	1839.7	1866.5	1890.2	1908.7	1931.4
17.5°	1774.8	1776.9	1788.2	1804.7	1828.4	1852.1	1881.9	1909.7	1941.7	1963.3	1990.1
20°	1833.5	1836.6	1849.0	1866.5	1892.2	1916.9	1947.8	1976.7	2009.7	2035.4	2062.2
22.5°	1909.7	1914.9	1928.3	1949.9	1975.7	2005.5	2037.5	2067.3	2098.2	2124.0	2146.6
25°	2011.7	2017.9	2032.3	2053.9	2079.7	2111.6	2144.6	2175.5	2207.4	2227.0	2245.5
27.5°	2148.7	2159.0	2174.5	2192.0	2214.6	2248.6	2279.5	2305.3	2336.2	2357.8	2370.2
30°	2333.1	2347.5	2359.9	2378.4	2394.9	2430.9	2455.7	2476.3	2500.0	2512.3	2515.4
32.5°	2558.7	2572.1	2584.4	2597.8	2620.5	2653.4	2677.1	2688.5	2700.8	2698.8	2687.4
35°	2813.1	2823.4	2830.6	2854.3	2891.4	2913.0	2930.5	2934.6	2936.7	2915.1	2893.4
37.5°	3080.9	3093.3	3099.5	3136.5	3171.6	3196.3	3204.5	3213.8	3207.6	3171.6	3132.4
40°	3370.4	3383.8	3402.3	3434.2	3475.4	3499.1	3509.4	3508.4	3503.2	3461.0	3397.1
42.5°	3654.7	3671.1	3686.6	3742.2	3776.2	3816.4	3821.5	3820.5	3809.2	3760.8	3686.6
45°	3895.7	3915.3	3947.2	4009.0	4063.6	4112.0	4131.6	4138.8	4127.5	4076.0	3991.5
47.5°	4094.5	4107.9	4148.1	4223.3	4293.3	4364.4	4403.5	4431.3	4430.3	4393.2	4303.6
50°	4230.5	4245.9	4295.4	4379.8	4467.4	4550.8	4628.1	4690.9	4720.8	4694.0	4610.6
52.5°	4269.6	4289.2	4354.1	4455.0	4557.0	4669.3	4784.6	4895.9	4962.8	4979.3	4914.4
55°	4104.8	4126.4	4221.2	4361.3	4529.2	4695.0	4870.1	5028.8	5166.8	5230.7	5204.9
57.5°	3624.8	3640.2	3760.8	3942.0	4182.1	4473.6	4768.2	5058.6	5295.5	5461.4	5490.2
60°	2866.7	2886.2	3018.1	3209.7	3482.6	3851.4	4263.4	4739.3	5203.9	5584.0	5772.5
62.5°	1934.5	1947.8	2074.5	2249.7	2548.4	2903.7	3363.2	3965.7	4628.1	5306.9	5838.4
65°	1015.6	1015.6	1101.1	1223.7	1461.7	1779.9	2250.7	2868.7	3656.7	4504.5	5393.4
67.5°	589.2	588.2	607.7	635.5	710.7	839.5	1099.1	1553.3	2299.1	3285.9	4297.4
70°	486.2	483.1	480.0	480.0	491.3	510.9	560.4	685.0	1002.3	1694.5	2644.2
71°	464.6	462.5	454.3	451.2	456.3	466.6	488.2	545.9	711.8	1155.7	1974.6
72.5°	438.8	433.7	421.3	416.1	417.2	421.3	427.5	450.1	500.6	657.2	1125.9
75°	399.7	387.3	371.9	364.6	361.6	360.5	360.5	366.7	378.0	396.6	461.5
77.5°	354.3	336.8	320.3	313.1	308.0	304.9	302.8	298.7	296.7	304.9	328.6
80°	299.7	281.2	267.8	263.7	260.6	254.4	246.2	237.9	232.8	236.9	251.3
82.5°	231.8	213.2	215.3	216.3	211.2	200.9	192.6	183.4	174.1	172.0	179.2
85°	184.4	175.1	168.9	182.3	171.0	158.6	147.3	131.8	110.2	90.6	98.9
87.5°	79.3	80.3	115.4	174.1	152.4	122.6	102.0	82.4	52.5	39.1	40.2
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1830.4	1830.4	1830.4	1830.4	1830.4	1830.4	1830.4	1830.4
2.5°	1828.4	1828.4	1825.3	1823.2	1823.2	1823.2	1821.1	1822.2
5°	1840.7	1842.8	1844.8	1843.8	1846.9	1850.0	1849.0	1847.9
7.5°	1861.3	1867.5	1873.7	1876.8	1880.9	1885.0	1886.0	1883.0
10°	1881.9	1894.3	1903.6	1911.8	1916.9	1921.1	1924.2	1923.1
12.5°	1907.7	1925.2	1941.7	1958.1	1969.5	1975.7	1981.8	1979.8
15°	1949.9	1969.5	1990.1	2011.7	2029.2	2038.5	2047.8	2045.7
17.5°	2007.6	2025.1	2041.6	2063.2	2084.8	2095.1	2105.4	2104.4
20°	2079.7	2093.1	2102.4	2114.7	2135.3	2146.6	2155.9	2152.8
22.5°	2162.1	2166.2	2167.3	2171.4	2187.9	2201.2	2213.6	2216.7
25°	2251.7	2248.6	2242.4	2239.4	2250.7	2265.1	2280.6	2284.7
27.5°	2363.0	2352.7	2337.2	2324.9	2327.9	2346.5	2364.0	2368.1
30°	2503.1	2479.4	2446.4	2422.7	2418.6	2438.2	2456.7	2462.9
32.5°	2662.7	2630.8	2585.5	2549.4	2534.0	2551.5	2567.9	2577.2
35°	2852.2	2817.2	2762.6	2716.3	2691.6	2702.9	2731.7	2742.0
37.5°	3076.8	3028.4	2967.6	2908.9	2867.7	2869.8	2900.7	2913.0
40°	3325.0	3255.0	3177.7	3104.6	3044.9	3040.7	3068.6	3077.8
42.5°	3583.6	3494.0	3403.3	3307.5	3233.4	3220.0	3256.0	3257.1
45°	3861.7	3746.3	3634.1	3522.8	3445.6	3421.9	3456.9	3461.0
47.5°	4158.4	4014.2	3881.3	3760.8	3677.3	3640.2	3674.2	3680.4
50°	4467.4	4318.0	4163.5	4029.6	3931.7	3886.4	3926.6	3930.7
52.5°	4773.3	4632.2	4478.7	4325.2	4206.8	4155.3	4202.7	4217.1
55°	5081.3	4945.3	4801.1	4647.6	4498.3	4453.0	4504.5	4519.9
57.5°	5401.6	5270.8	5140.0	4985.5	4840.3	4771.2	4826.9	4848.5
60°	5755.0	5639.6	5516.0	5360.4	5217.3	5136.9	5184.3	5209.0
62.5°	6102.1	6078.4	5966.1	5804.4	5623.1	5542.8	5582.9	5600.4
65°	6130.9	6515.1	6510.0	6349.3	6095.9	5961.0	5972.3	5980.5
67.5°	5351.2	6232.9	6796.3	6846.8	6564.6	6353.4	6328.7	6333.9
70°	3788.6	4998.9	6194.8	6979.7	7090.9	6927.2	6873.6	6881.8
71°	3035.6	4289.2	5605.6	6661.4	7082.7	7035.3	7005.5	7027.1
72.5°	1937.5	3160.2	4441.6	5704.5	6513.1	6744.8	6778.8	6792.2
75°	703.5	1359.7	2301.2	3297.2	4179.0	4785.7	5119.4	5146.2
77.5°	378.0	487.2	753.0	1124.8	1413.2	1567.8	1586.3	1593.5
80°	278.1	322.4	368.8	421.3	454.3	460.4	449.1	425.4
82.5°	196.7	222.5	241.0	259.6	273.0	261.6	217.3	165.8
85°	114.3	125.7	136.0	145.2	147.3	139.1	91.7	75.2
87.5°	45.3	49.4	48.4	54.6	52.5	48.4	36.1	30.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)