

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: P399141

Luminaire Tested: **ARCH-L-PA3-100-740-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399141
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-100-740-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 440mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16678 lumens
Efficiency: N/A
Efficacy: 163.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

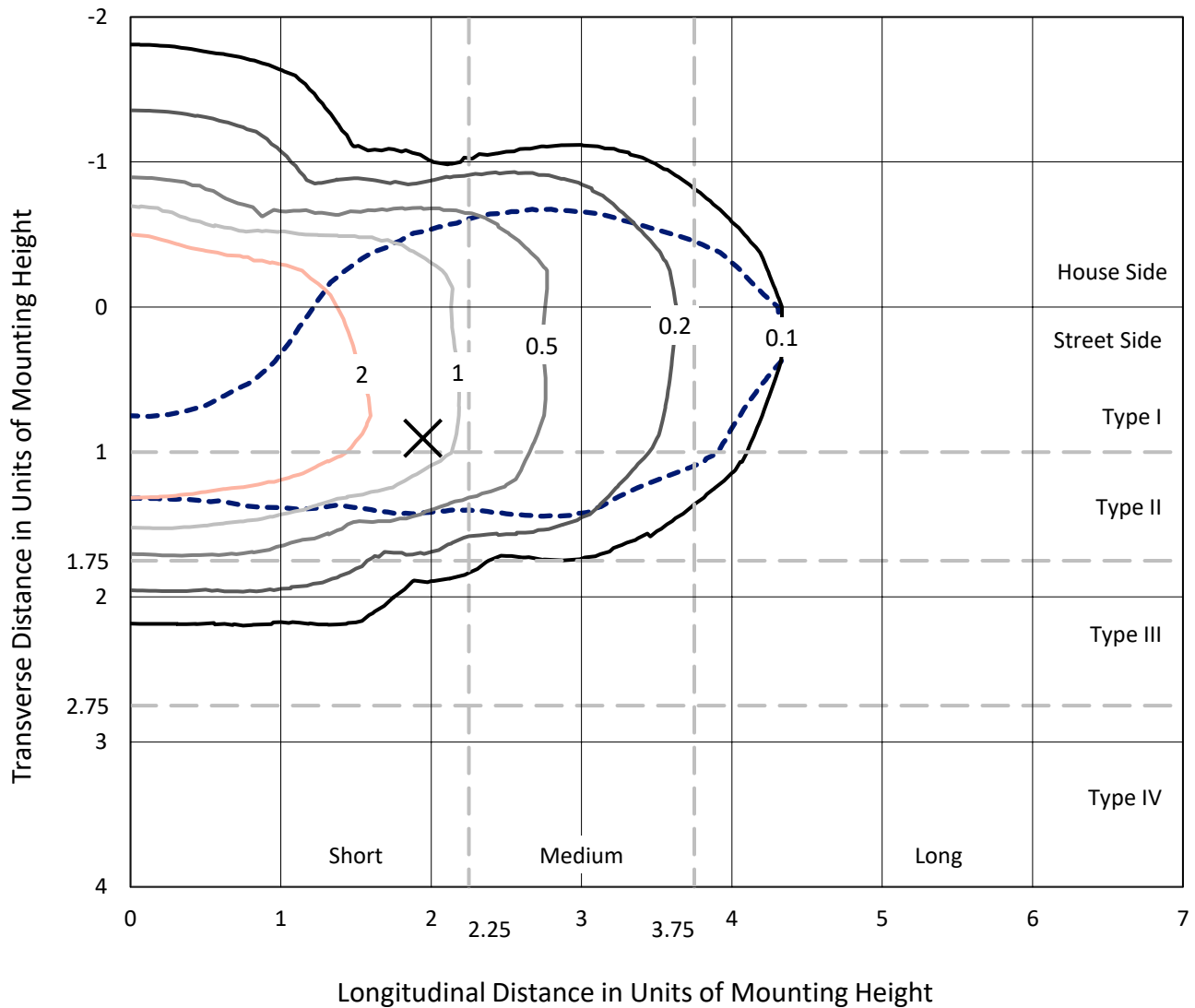
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

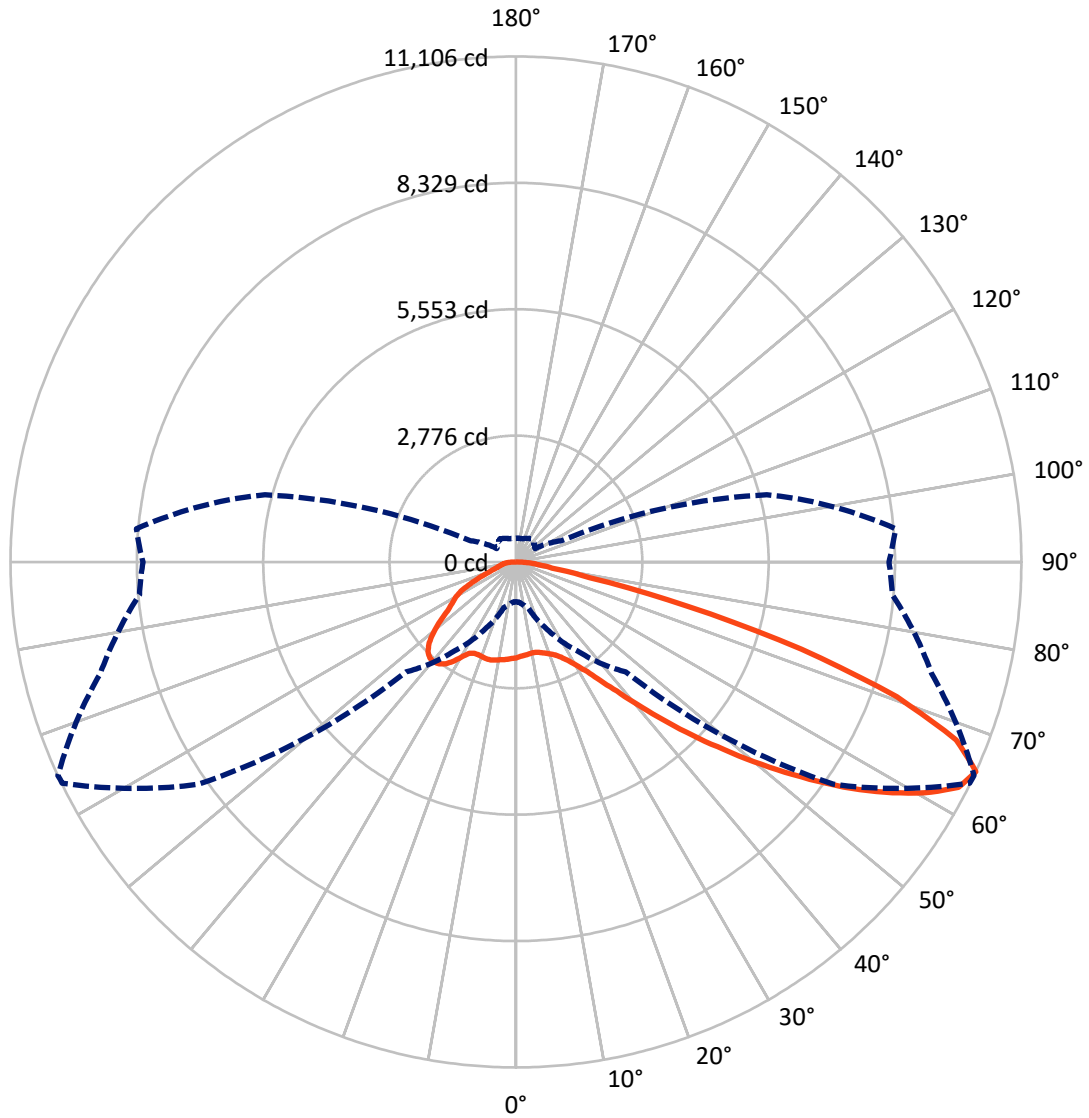
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - Horizontal Cone Through 65-Deg Vertical

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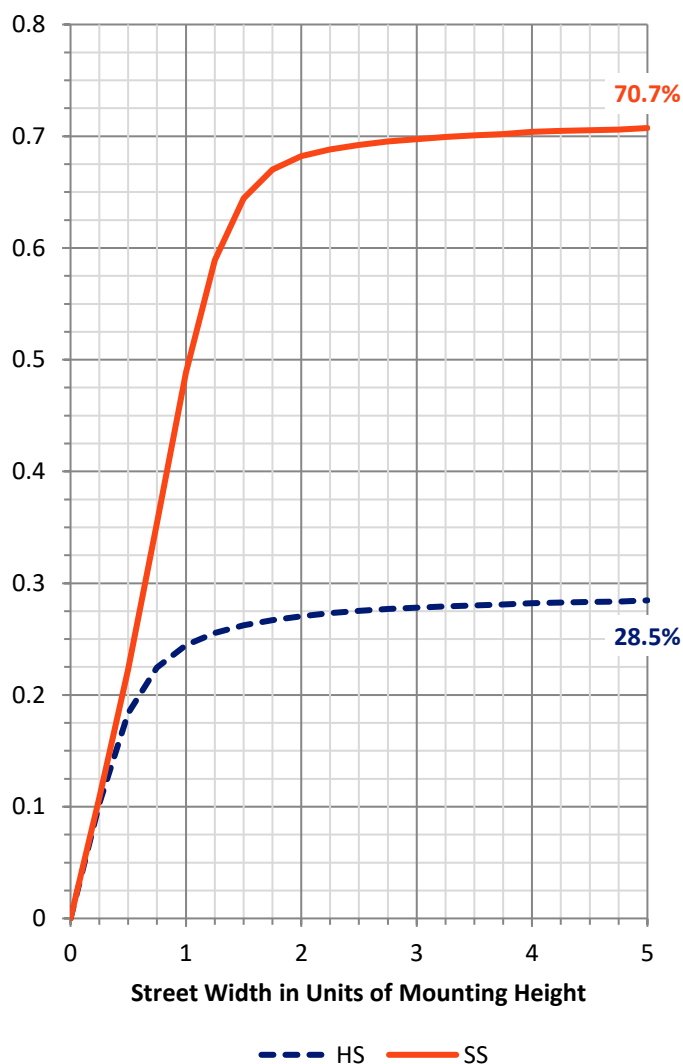
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4821.9	0.0	4821.9
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	11856.1	0.0	11856.1
	% Fixture	71.1	0.0	71.1
Total	Lumens	16678.0	0.0	16678.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.8	1.2
10°-20°	599.4	3.6
20°-30°	1064.8	6.4
30°-40°	1801.3	10.8
40°-50°	3135.8	18.8
50°-60°	4052.4	24.3
60°-70°	3546.1	21.3
70°-80°	1928.8	11.6
80°-90°	348.5	2.1
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°	16678.0	100.0
0°-180°	16678.0	100.0

Coefficient of Utilization



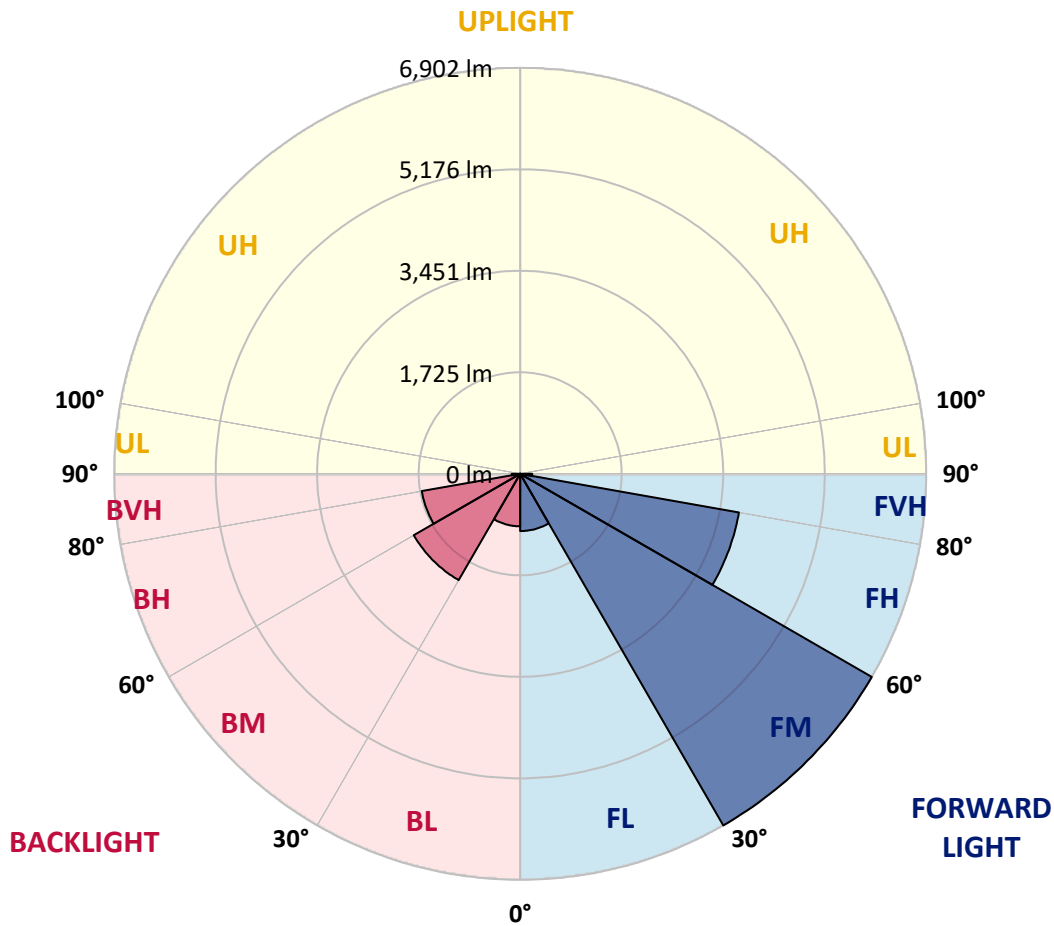
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	973.1	5.8			
FM (30°-60°)	6901.8	41.4			
FH (60°-80°)	3776.1	22.6			G2/5000
FVH (80°-90°)	205.1	1.2			G2/225
BL (0°-30°)	891.9	5.3	B2/1000		
BM (30°-60°)	2087.8	12.5	B2/2500		
BH (60°-80°)	1698.8	10.2	B3/2500		G3/2500
BVH (80°-90°)	143.4	0.9			G2/225
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°	64°	65°	75°	85°
0°	2107.4	2107.4	2107.4	2107.4	2107.4	2107.4	2107.4	2107.4	2107.4	2107.4	2107.4
2.5°	2070.1	2067.9	2063.5	2067.9	2070.1	2074.5	2072.3	2076.7	2074.5	2081.1	2092.1
5°	2017.4	2013.0	2010.8	2021.8	2028.4	2039.4	2043.8	2059.1	2056.9	2067.9	2085.5
7.5°	1958.1	1958.1	1956.0	1969.1	1977.9	1997.7	2013.0	2039.4	2041.6	2061.3	2081.1
10°	1912.1	1914.2	1912.1	1923.0	1936.2	1960.3	1986.7	2024.0	2026.2	2054.7	2074.5
12.5°	1894.5	1894.5	1894.5	1909.9	1927.4	1960.3	1991.1	2030.6	2035.0	2065.7	2083.3
15°	1918.6	1920.8	1916.4	1931.8	1951.6	1991.1	2019.6	2061.3	2065.7	2094.3	2105.2
17.5°	2004.2	2013.0	2002.1	2010.8	2006.4	2037.2	2063.5	2105.2	2107.4	2131.6	2136.0
20°	2173.3	2182.1	2164.5	2153.5	2114.0	2111.8	2122.8	2155.7	2155.7	2171.1	2160.1
22.5°	2434.5	2443.3	2412.6	2370.9	2276.5	2230.4	2206.2	2221.6	2219.4	2226.0	2197.4
25°	2781.4	2779.2	2741.8	2665.0	2513.5	2401.6	2342.3	2318.2	2318.2	2305.0	2269.9
27.5°	3211.6	3178.7	3112.8	3020.6	2809.9	2654.0	2526.7	2465.2	2454.3	2414.8	2348.9
30°	3670.4	3646.3	3551.9	3418.0	3174.3	2974.5	2763.8	2640.9	2634.3	2548.7	2449.9
32.5°	4210.5	4170.9	4065.6	3905.3	3613.4	3332.4	3068.9	2882.3	2871.4	2735.3	2599.2
35°	4904.2	4871.2	4667.1	4506.8	4131.4	3762.6	3450.9	3202.8	3194.1	3027.2	2853.8
37.5°	5736.2	5650.5	5453.0	5152.2	4757.1	4320.2	3925.1	3613.4	3602.4	3418.0	3198.5
40°	6478.1	6401.3	6225.7	5949.1	5525.4	5040.3	4504.6	4127.0	4116.1	3892.2	3615.6
42.5°	7026.9	6974.3	6860.1	6699.9	6396.9	6102.8	5244.4	4748.3	4728.5	4438.8	4094.1
45°	7345.3	7303.5	7237.7	7277.2	7272.8	7217.9	6126.9	5488.1	5424.4	5049.0	4627.6
47.5°	7268.4	7231.1	7257.4	7564.8	7988.5	8306.8	7154.3	6245.4	6159.8	5670.3	5196.1
50°	6713.0	6728.4	6866.7	7455.0	8405.6	9112.4	8293.6	7108.2	6994.0	6295.9	5736.2
52.5°	5701.0	5738.3	6074.2	6897.4	8359.5	9634.9	9323.2	7999.4	7848.0	6906.2	6227.9
55°	4528.8	4623.2	5057.8	5922.7	7758.0	9672.2	10100.3	8895.1	8728.3	7479.2	6656.0
57.5°	3349.9	3490.4	3993.1	4787.8	6605.5	9081.7	10488.8	9751.2	9549.3	8047.7	7108.2
60°	2125.0	2210.6	2790.1	3727.5	5055.6	7637.2	10438.3	10480.1	10304.4	8614.1	7580.1
62.5°	1356.7	1398.4	1690.3	2658.4	3534.3	5654.9	9887.3	11031.1	10912.5	9130.0	8028.0
65°	871.5	889.1	1038.3	1635.5	2406.0	3413.6	8515.3	11090.3	11105.7	9452.7	8304.6
67.5°	709.1	717.8	772.7	1009.8	1701.3	1885.7	5931.5	10247.4	10434.0	9369.3	8210.2
70°	645.4	656.4	713.5	805.7	1317.1	1301.8	2871.4	8574.6	8879.7	8888.5	7790.9
72.5°	544.4	559.8	636.6	761.7	1018.6	1027.4	1216.2	6107.1	6557.2	7944.6	7160.9
75°	454.4	463.2	529.1	671.7	862.7	821.0	853.9	3238.0	3887.8	6370.6	6491.3
77.5°	368.8	377.6	425.9	535.6	766.1	638.8	671.7	1341.3	1657.4	4324.6	5305.9
80°	263.4	272.2	327.1	417.1	579.5	575.2	498.3	739.8	803.5	2337.9	3446.5
82.5°	188.8	195.4	248.1	298.6	401.7	577.3	375.4	502.7	526.9	1036.2	1389.6
85°	127.3	127.3	171.2	197.6	259.0	364.4	302.9	340.3	355.6	491.7	375.4
87.5°	54.9	54.9	92.2	101.0	136.1	169.0	226.1	171.2	175.6	265.6	153.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2107.4	2107.4	2107.4	2107.4	2107.4	2107.4	2107.4	2107.4	2107.4	2107.4	2107.4
2.5°	2098.6	2100.8	2105.2	2118.4	2127.2	2140.4	2146.9	2155.7	2155.7	2151.3	2153.5
5°	2094.3	2100.8	2116.2	2140.4	2155.7	2179.9	2197.4	2210.6	2215.0	2210.6	2212.8
7.5°	2092.1	2103.0	2129.4	2164.5	2186.5	2217.2	2241.3	2256.7	2267.7	2263.3	2265.5
10°	2085.5	2103.0	2136.0	2179.9	2212.8	2243.5	2265.5	2272.1	2278.7	2274.3	2272.1
12.5°	2094.3	2114.0	2149.1	2201.8	2239.1	2263.3	2269.9	2258.9	2243.5	2234.7	2232.6
15°	2111.8	2131.6	2166.7	2221.6	2254.5	2263.3	2247.9	2212.8	2177.7	2157.9	2155.7
17.5°	2136.0	2149.1	2177.7	2226.0	2252.3	2241.3	2210.6	2168.9	2142.5	2127.2	2129.4
20°	2151.3	2151.3	2173.3	2210.6	2232.6	2223.8	2186.5	2140.4	2098.6	2078.9	2072.3
22.5°	2173.3	2162.3	2164.5	2197.4	2228.2	2215.0	2136.0	2054.7	1995.5	1973.5	1971.3
25°	2232.6	2201.8	2182.1	2201.8	2274.3	2166.7	2008.6	1914.2	1859.4	1839.6	1841.8
27.5°	2305.0	2263.3	2221.6	2254.5	2311.6	2056.9	1846.2	1738.6	1705.7	1690.3	1696.9
30°	2377.4	2322.6	2267.7	2386.2	2285.2	1885.7	1637.6	1532.3	1503.7	1492.8	1501.5
32.5°	2511.3	2421.3	2355.5	2561.8	2204.0	1690.3	1411.5	1314.9	1288.6	1275.4	1271.0
35°	2735.3	2621.1	2555.3	2715.5	2089.9	1473.0	1205.2	1137.1	1108.6	1080.1	1075.7
37.5°	3058.0	2919.7	2860.4	2803.3	1929.6	1257.9	1047.1	1001.0	959.3	915.4	913.2
40°	3444.3	3264.3	3220.4	2842.8	1707.9	1055.9	937.4	893.5	840.8	799.1	801.3
42.5°	3890.0	3659.5	3565.1	2831.9	1433.5	948.3	858.3	810.0	763.9	726.6	724.4
45°	4366.3	4105.1	3887.8	2755.0	1161.3	873.7	810.0	753.0	706.9	665.2	660.8
47.5°	4893.2	4601.2	4186.3	2605.7	959.3	821.0	781.5	700.3	658.6	632.2	632.2
50°	5424.4	5075.4	4460.7	2379.6	840.8	781.5	739.8	671.7	638.8	616.9	616.9
52.5°	5878.8	5569.3	4686.8	2109.6	766.1	748.6	711.3	658.6	623.4	603.7	601.5
55°	6320.1	6028.1	4888.8	1841.8	704.7	704.7	704.7	647.6	608.1	590.5	588.3
57.5°	6759.1	6511.1	5099.5	1666.2	649.8	667.4	691.5	634.4	594.9	579.5	577.3
60°	7255.3	7090.6	5343.2	1543.3	601.5	627.8	673.9	619.1	573.0	559.8	557.6
62.5°	7782.1	7782.1	5564.9	1369.8	557.6	594.9	647.6	599.3	553.2	542.2	540.0
65°	8194.8	8372.6	5707.6	1110.8	513.7	562.0	616.9	573.0	526.9	524.7	520.3
67.5°	8243.1	8521.9	5617.6	838.6	474.2	526.9	586.1	544.4	500.5	500.5	493.9
70°	7896.3	8179.4	5336.6	627.8	445.6	491.7	546.6	509.3	467.6	472.0	461.0
72.5°	7316.7	7387.0	4638.5	496.1	412.7	454.4	498.3	469.8	432.5	432.5	417.1
75°	6552.8	6162.0	3369.7	414.9	373.2	410.5	450.0	425.9	392.9	382.0	373.2
77.5°	5215.9	4465.1	1958.1	357.8	340.3	368.8	395.1	377.6	349.0	324.9	324.9
80°	3178.7	2616.7	864.9	309.5	300.7	322.7	340.3	320.5	296.4	272.2	265.6
82.5°	1209.6	1009.8	419.3	265.6	263.4	276.6	289.8	270.0	252.5	241.5	208.5
85°	331.5	305.1	287.6	221.7	217.3	215.1	230.5	221.7	197.6	162.4	144.9
87.5°	125.1	142.7	155.9	136.1	144.9	133.9	153.7	140.5	125.1	81.2	72.4
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)