

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: P399465

Luminaire Tested: **ARCH-L-PA3-140-830-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399465
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-PA3-140-830-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 620mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17807 lumens
Efficiency: N/A
Efficacy: 124.5 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

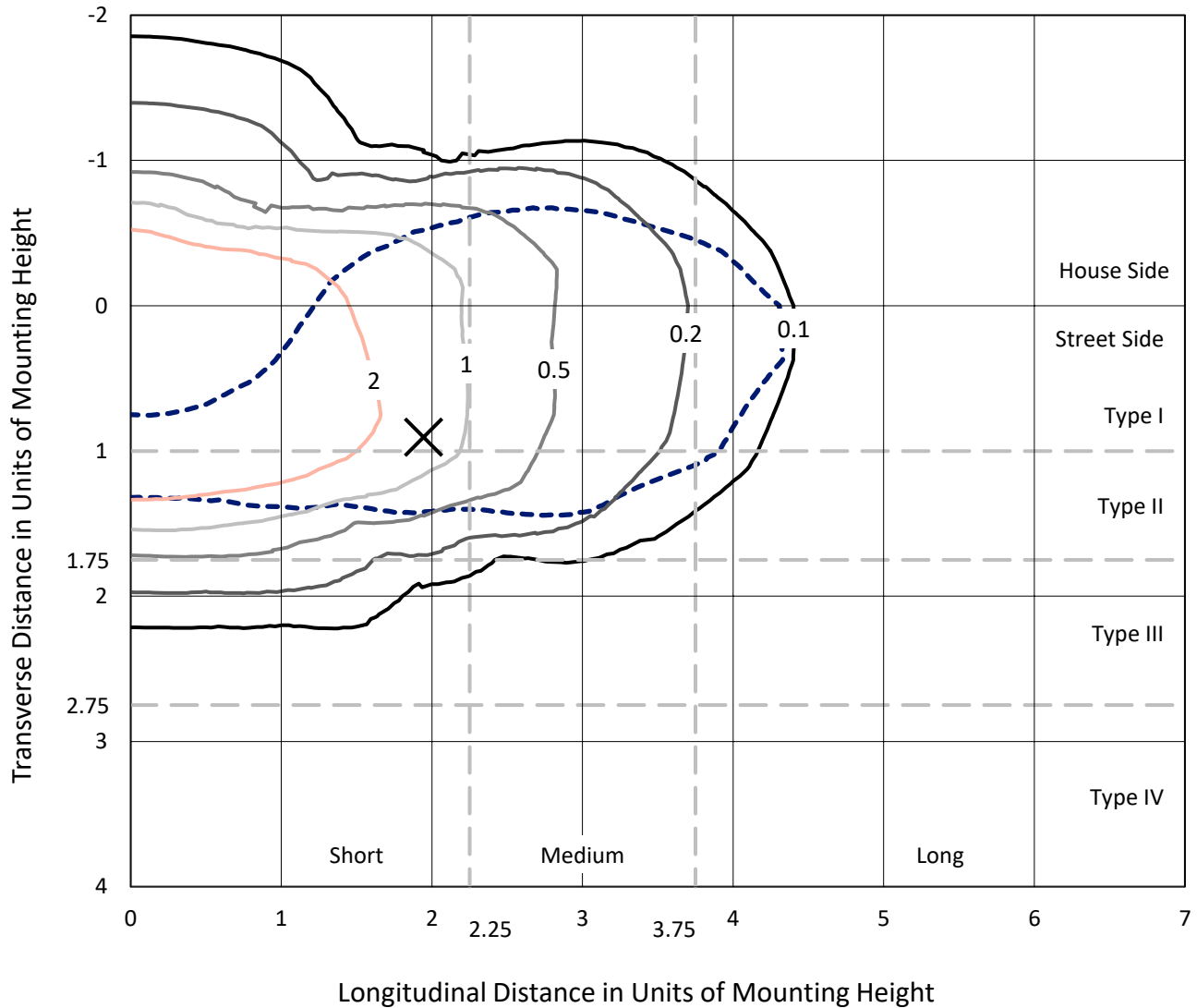
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

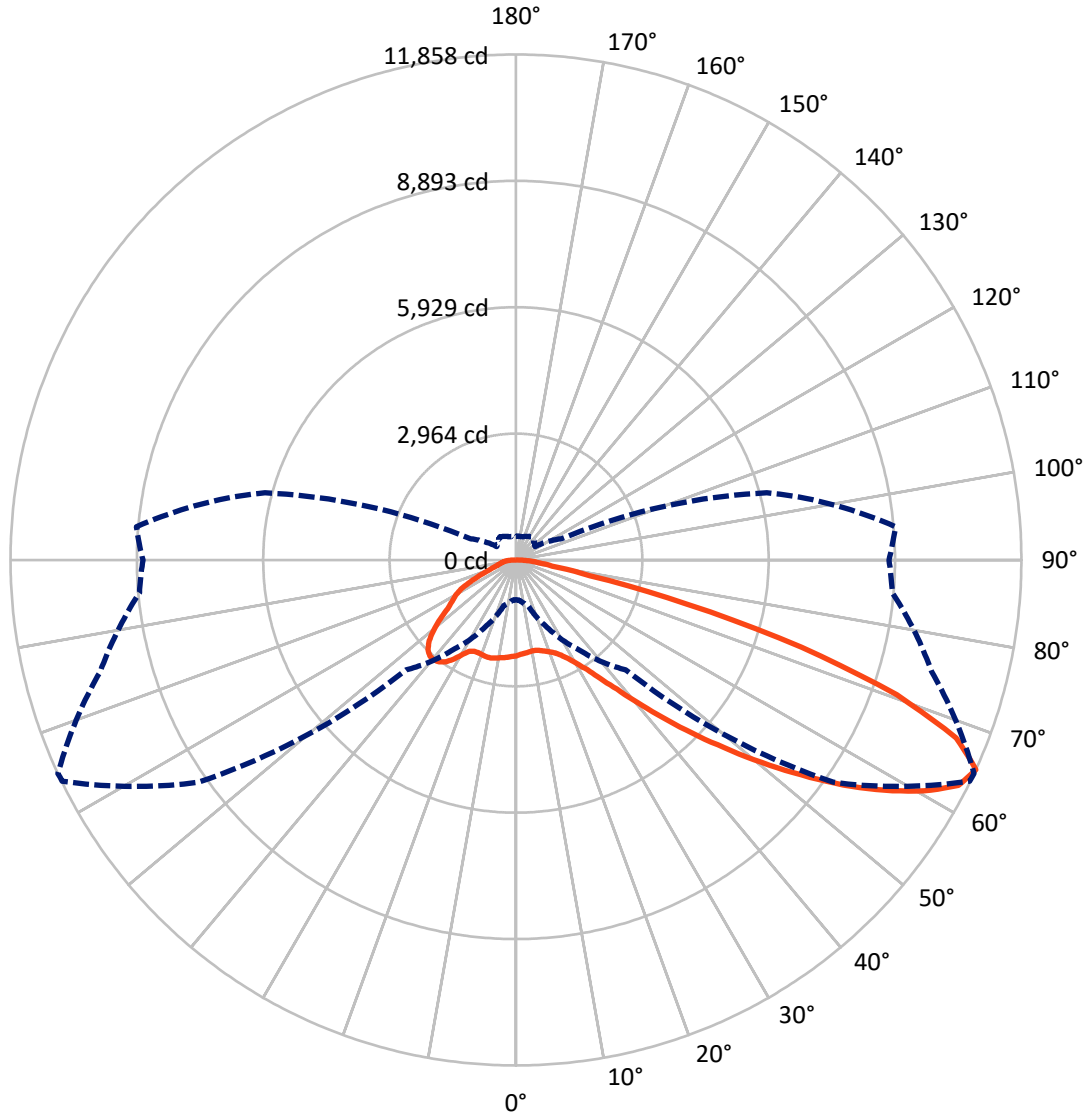
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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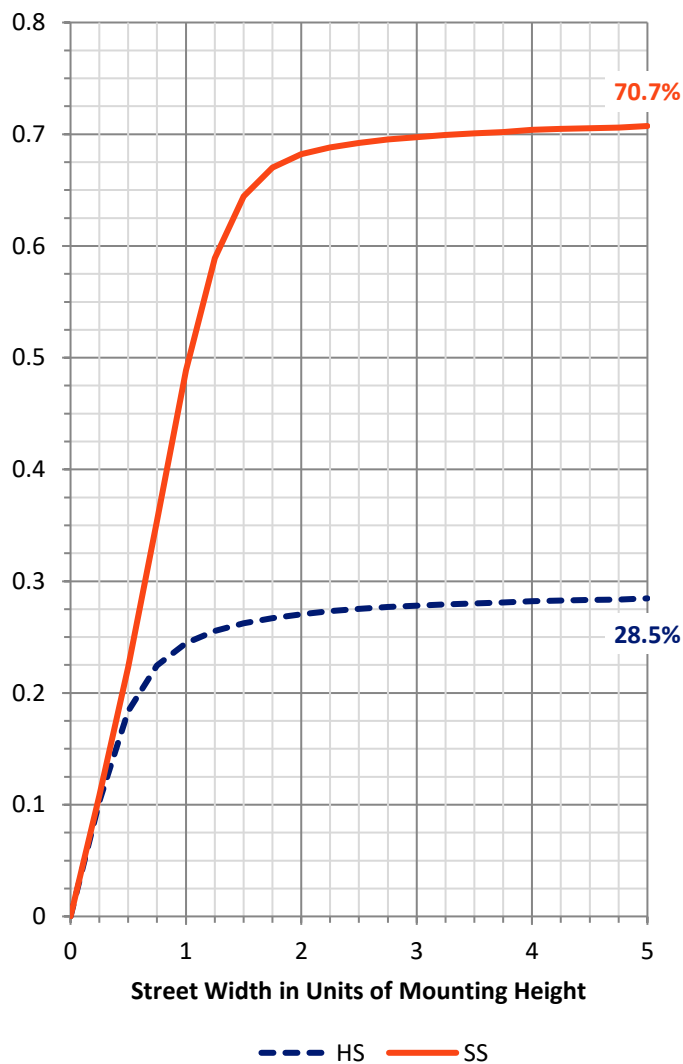
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5148.3	0.0	5148.3
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	12658.7	0.0	12658.7
	% Fixture	71.1	0.0	71.1
Total	Lumens	17807.0	0.0	17807.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	1.2
10°-20°	640.0	3.6
20°-30°	1136.9	6.4
30°-40°	1923.3	10.8
40°-50°	3348.1	18.8
50°-60°	4326.8	24.3
60°-70°	3786.2	21.3
70°-80°	2059.4	11.6
80°-90°	372.1	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°	17807.0	100.0
0°-180°	17807.0	100.0

Coefficient of Utilization

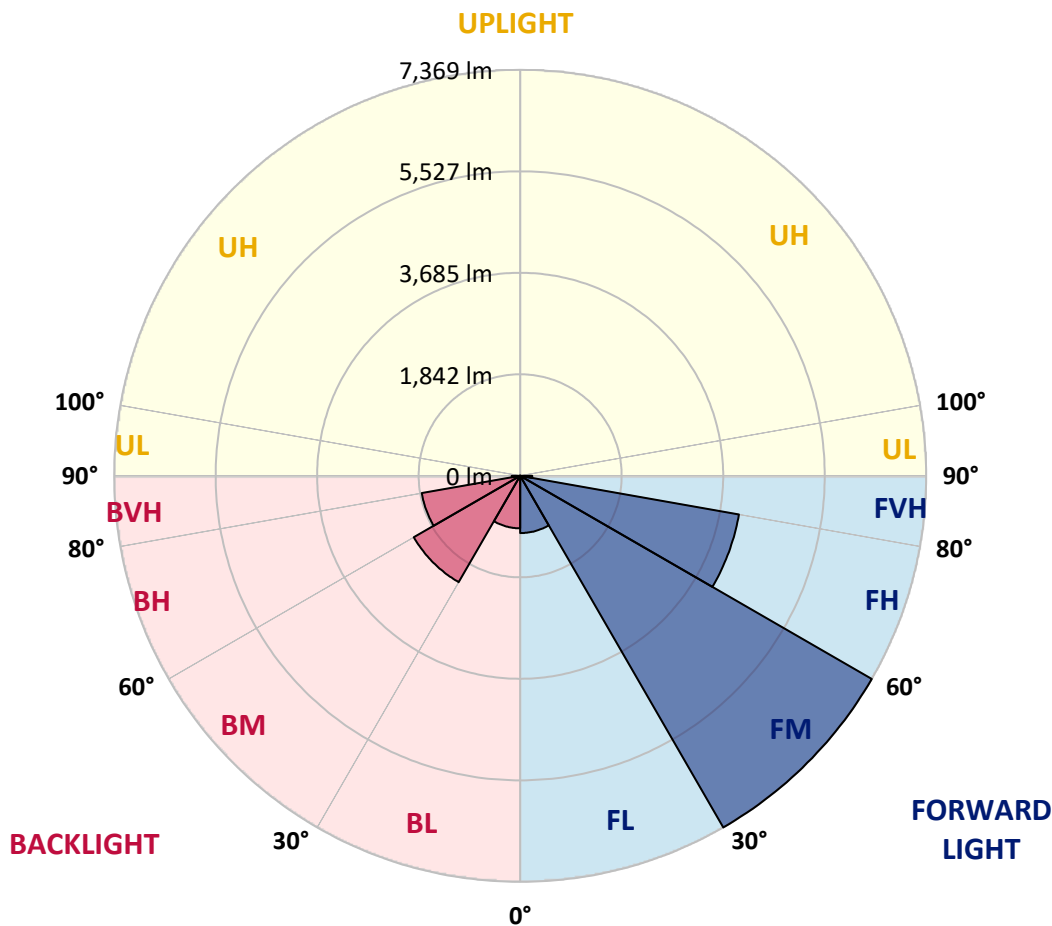


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1039.0	5.8			
FM (30°-60°)	7369.0	41.4			
FH (60°-80°)	4031.8	22.6			G2/5000
FVH (80°-90°)	219.0	1.2			G2/225
BL (0°-30°)	952.2	5.3	B2/1000		
BM (30°-60°)	2229.1	12.5	B2/2500		
BH (60°-80°)	1813.8	10.2	B3/2500		G3/2500
BVH (80°-90°)	153.1	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°	2250.1	2250.1	2250.1	2250.1	2250.1	2250.1	2250.1	2250.1	2250.1	2250.1	2250.1
2.5°	2210.2	2207.9	2203.2	2207.9	2210.2	2214.9	2212.6	2217.3	2214.9	2222.0	2233.7
5°	2154.0	2149.3	2147.0	2158.7	2165.7	2177.4	2182.1	2198.5	2196.2	2207.9	2226.6
7.5°	2090.7	2090.7	2088.4	2102.4	2111.8	2132.9	2149.3	2177.4	2179.8	2200.9	2222.0
10°	2041.5	2043.8	2041.5	2053.2	2067.3	2093.0	2121.2	2161.0	2163.4	2193.8	2214.9
12.5°	2022.7	2022.7	2022.7	2039.1	2057.9	2093.0	2125.9	2168.1	2172.7	2205.6	2224.3
15°	2048.5	2050.9	2046.2	2062.6	2083.7	2125.9	2156.3	2200.9	2205.6	2236.0	2247.7
17.5°	2139.9	2149.3	2137.6	2147.0	2142.3	2175.1	2203.2	2247.7	2250.1	2275.9	2280.6
20°	2320.4	2329.8	2311.0	2299.3	2257.1	2254.8	2266.5	2301.7	2301.7	2318.1	2306.3
22.5°	2599.3	2608.7	2575.9	2531.3	2430.6	2381.3	2355.6	2372.0	2369.6	2376.7	2346.2
25°	2969.6	2967.3	2927.5	2845.4	2683.7	2564.2	2500.9	2475.1	2475.1	2461.0	2423.5
27.5°	3429.0	3393.9	3323.6	3225.1	3000.1	2833.7	2697.8	2632.1	2620.4	2578.2	2507.9
30°	3918.9	3893.1	3792.3	3649.4	3389.2	3175.9	2950.9	2819.6	2812.6	2721.2	2615.7
32.5°	4495.5	4453.3	4340.8	4169.7	3858.0	3557.9	3276.7	3077.5	3065.7	2920.4	2775.1
35°	5236.1	5201.0	4983.0	4811.9	4411.1	4017.3	3684.5	3419.7	3410.3	3232.2	3047.0
37.5°	6124.5	6033.0	5822.1	5501.0	5079.1	4612.7	4190.8	3858.0	3846.2	3649.4	3415.0
40°	6916.7	6834.6	6647.1	6351.8	5899.4	5381.5	4809.6	4406.4	4394.7	4155.6	3860.3
42.5°	7502.6	7446.4	7324.5	7153.4	6829.9	6515.9	5599.4	5069.7	5048.6	4739.2	4371.3
45°	7842.5	7798.0	7727.6	7769.8	7765.1	7706.5	6541.7	5859.6	5791.6	5390.8	4940.8
47.5°	7760.5	7720.6	7748.7	8076.9	8529.2	8869.1	7638.6	6668.2	6576.8	6054.1	5547.9
50°	7167.5	7183.9	7331.5	7959.7	8974.6	9729.3	8855.0	7589.4	7467.5	6722.1	6124.5
52.5°	6087.0	6126.8	6485.4	7364.3	8925.3	10287.1	9954.3	8541.0	8379.2	7373.7	6649.5
55°	4835.3	4936.1	5400.2	6323.7	8283.1	10327.0	10784.0	9497.2	9319.1	7985.5	7106.5
57.5°	3576.7	3726.7	4263.4	5111.9	7052.6	9696.5	11198.9	10411.3	10195.7	8592.5	7589.4
60°	2268.8	2360.2	2979.0	3979.8	5397.9	8154.2	11145.0	11189.5	11002.0	9197.2	8093.3
62.5°	1448.5	1493.0	1804.8	2838.4	3773.6	6037.7	10556.7	11777.8	11651.2	9748.0	8571.4
65°	930.5	949.3	1108.6	1746.2	2568.8	3644.7	9091.8	11841.1	11857.5	10092.6	8866.7
67.5°	757.1	766.4	825.0	1078.2	1816.5	2013.4	6333.1	10941.0	11140.3	10003.5	8766.0
70°	689.1	700.8	761.7	860.2	1406.3	1389.9	3065.7	9155.0	9480.8	9490.2	8318.3
72.5°	581.3	597.7	679.7	813.3	1087.5	1096.9	1298.5	6520.6	7001.0	8482.4	7645.6
75°	485.2	494.6	564.9	717.2	921.1	876.6	911.8	3457.2	4150.9	6801.8	6930.7
77.5°	393.8	403.1	454.7	571.9	818.0	682.1	717.2	1432.1	1769.6	4617.4	5665.1
80°	281.3	290.6	349.2	445.3	618.8	614.1	532.1	789.9	857.8	2496.2	3679.8
82.5°	201.6	208.6	264.9	318.8	428.9	616.4	400.8	536.7	562.5	1106.3	1483.7
85°	135.9	135.9	182.8	210.9	276.6	389.1	323.4	363.3	379.7	525.0	400.8
87.5°	58.6	58.6	98.4	107.8	145.3	180.5	241.4	182.8	187.5	283.6	164.1
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°	2250.1	2250.1	2250.1	2250.1	2250.1	2250.1	2250.1	2250.1	2250.1	2250.1	2250.1
2.5°	2240.7	2243.1	2247.7	2261.8	2271.2	2285.2	2292.3	2301.7	2301.7	2297.0	2299.3
5°	2236.0	2243.1	2259.5	2285.2	2301.7	2327.4	2346.2	2360.2	2364.9	2360.2	2362.6
7.5°	2233.7	2245.4	2273.5	2311.0	2334.5	2367.3	2393.1	2409.5	2421.2	2416.5	2418.8
10°	2226.6	2245.4	2280.6	2327.4	2362.6	2395.4	2418.8	2425.9	2432.9	2428.2	2425.9
12.5°	2236.0	2257.1	2294.6	2350.9	2390.7	2416.5	2423.5	2411.8	2395.4	2386.0	2383.7
15°	2254.8	2275.9	2313.4	2372.0	2407.1	2416.5	2400.1	2362.6	2325.1	2304.0	2301.7
17.5°	2280.6	2294.6	2325.1	2376.7	2404.8	2393.1	2360.2	2315.7	2287.6	2271.2	2273.5
20°	2297.0	2297.0	2320.4	2360.2	2383.7	2374.3	2334.5	2285.2	2240.7	2219.6	2212.6
22.5°	2320.4	2308.7	2311.0	2346.2	2379.0	2364.9	2280.6	2193.8	2130.6	2107.1	2104.8
25°	2383.7	2350.9	2329.8	2350.9	2428.2	2313.4	2144.6	2043.8	1985.2	1964.1	1966.5
27.5°	2461.0	2416.5	2372.0	2407.1	2468.1	2196.2	1971.2	1856.3	1821.2	1804.8	1811.8
30°	2538.4	2479.8	2421.2	2547.8	2439.9	2013.4	1748.5	1636.0	1605.5	1593.8	1603.2
32.5°	2681.4	2585.3	2514.9	2735.3	2353.2	1804.8	1507.1	1404.0	1375.8	1361.8	1357.1
35°	2920.4	2798.5	2728.2	2899.3	2231.3	1572.7	1286.8	1214.1	1183.6	1153.2	1148.5
37.5°	3265.0	3117.3	3054.0	2993.1	2060.2	1343.0	1118.0	1068.8	1024.3	977.4	975.0
40°	3677.5	3485.3	3438.4	3035.3	1823.5	1127.4	1000.8	953.9	897.7	853.2	855.5
42.5°	4153.3	3907.2	3806.4	3023.6	1530.5	1012.5	916.4	864.9	815.7	775.8	773.5
45°	4661.9	4383.0	4150.9	2941.5	1239.9	932.8	864.9	803.9	754.7	710.2	705.5
47.5°	5224.4	4912.7	4469.7	2782.1	1024.3	876.6	834.4	747.7	703.2	675.0	675.0
50°	5791.6	5419.0	4762.7	2540.7	897.7	834.4	789.9	717.2	682.1	658.6	658.6
52.5°	6276.8	5946.3	5004.1	2252.4	818.0	799.2	759.4	703.2	665.7	644.6	642.2
55°	6747.9	6436.2	5219.7	1966.5	752.4	752.4	752.4	691.4	649.2	630.5	628.1
57.5°	7216.7	6951.8	5444.7	1779.0	693.8	712.5	738.3	677.4	635.2	618.8	616.4
60°	7746.4	7570.6	5704.9	1647.7	642.2	670.3	719.6	661.0	611.7	597.7	595.3
62.5°	8308.9	8308.9	5941.6	1462.6	595.3	635.2	691.4	639.9	590.6	578.9	576.6
65°	8749.6	8939.4	6094.0	1186.0	548.5	600.0	658.6	611.7	562.5	560.2	555.5
67.5°	8801.1	9098.8	5997.9	895.3	506.3	562.5	625.8	581.3	534.4	534.4	527.4
70°	8430.8	8733.1	5697.9	670.3	475.8	525.0	583.6	543.8	499.2	503.9	492.2
72.5°	7812.0	7887.0	4952.5	529.7	440.6	485.2	532.1	501.6	461.7	461.7	445.3
75°	6996.4	6579.2	3597.8	443.0	398.5	438.3	480.5	454.7	419.5	407.8	398.5
77.5°	5569.0	4767.4	2090.7	382.0	363.3	393.8	421.9	403.1	372.7	346.9	346.9
80°	3393.9	2793.9	923.5	330.5	321.1	344.5	363.3	342.2	316.4	290.6	283.6
82.5°	1291.5	1078.2	447.7	283.6	281.3	295.3	309.4	288.3	269.5	257.8	222.7
85°	353.9	325.8	307.0	236.7	232.0	229.7	246.1	236.7	210.9	173.4	154.7
87.5°	133.6	152.3	166.4	145.3	154.7	143.0	164.1	150.0	133.6	86.7	77.3
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)