

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: P399744

Luminaire Tested: **ARCH-L-PA3-180-827-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399744
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-PA3-180-827-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 775mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19600 lumens
Efficiency: N/A
Efficacy: 108.3 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

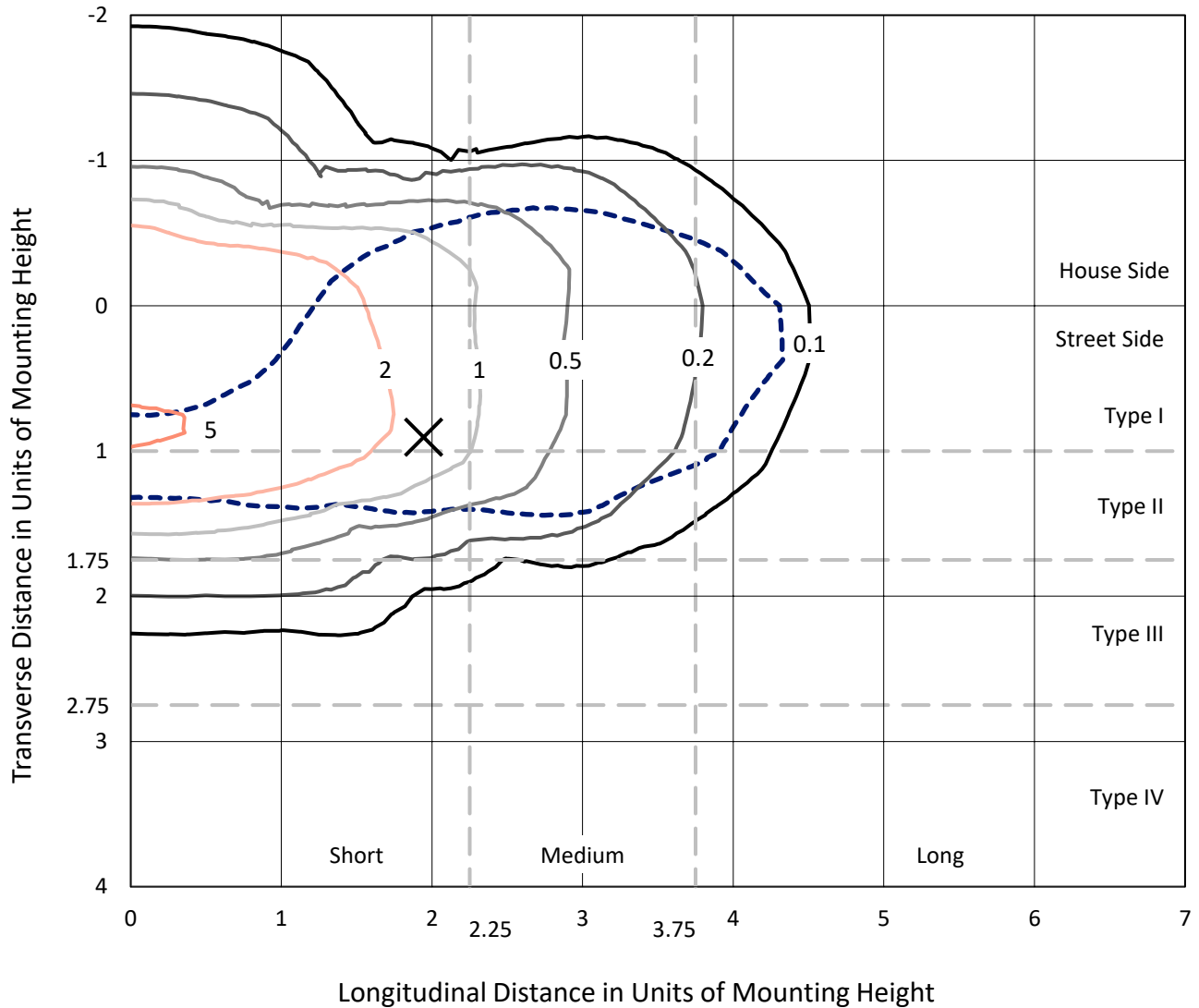
Input Watts (W): 181
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399744
 CATALOG NUMBER: ARCH-L-PA3-180-827-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

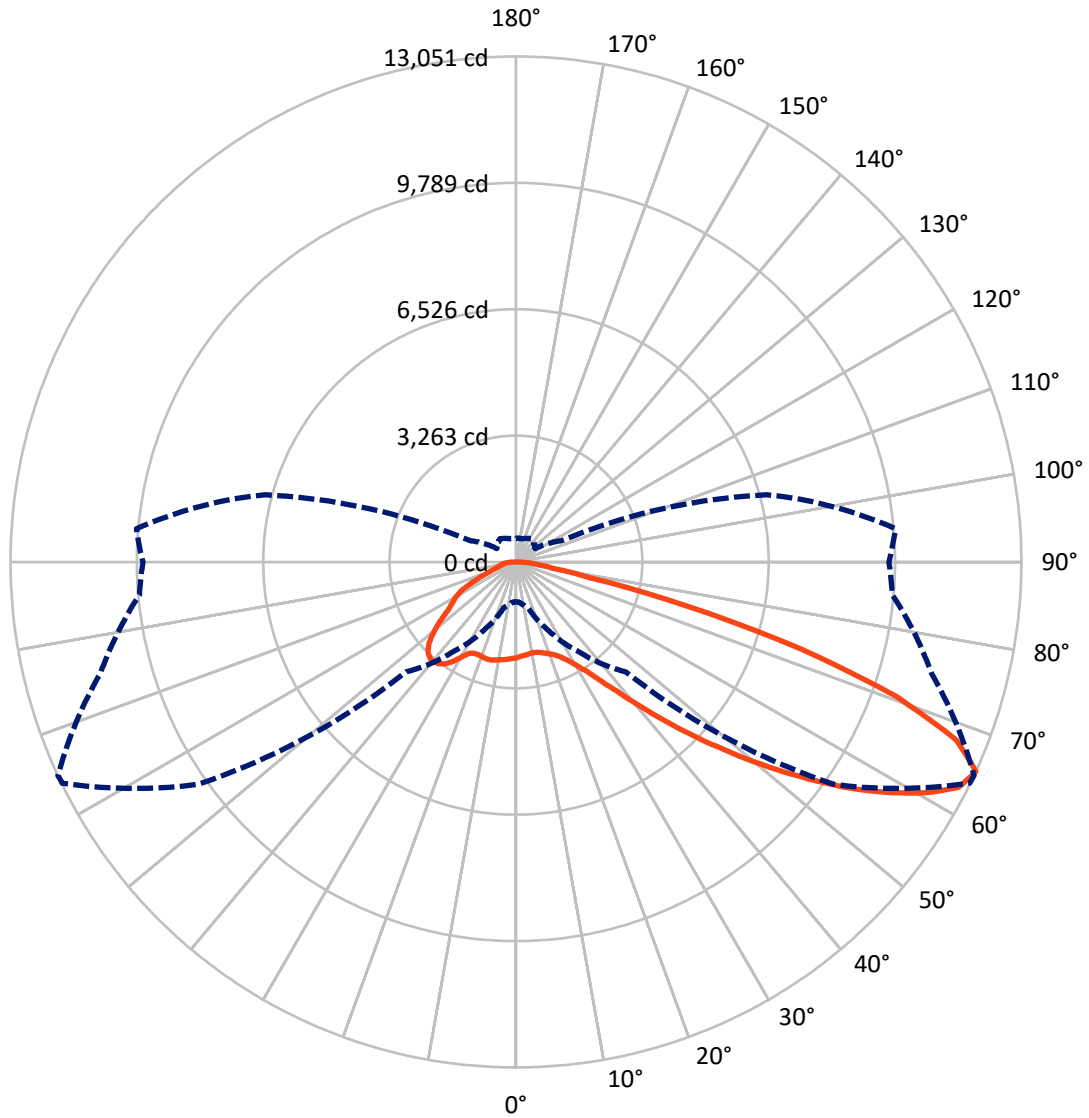
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

REPORT NUMBER: P399744
CATALOG NUMBER: ARCH-L-PA3-180-827-U-T2U

Luminous Intensity Polar Plot



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

REPORT NUMBER: P399744
 CATALOG NUMBER: ARCH-L-PA3-180-827-U-T2U

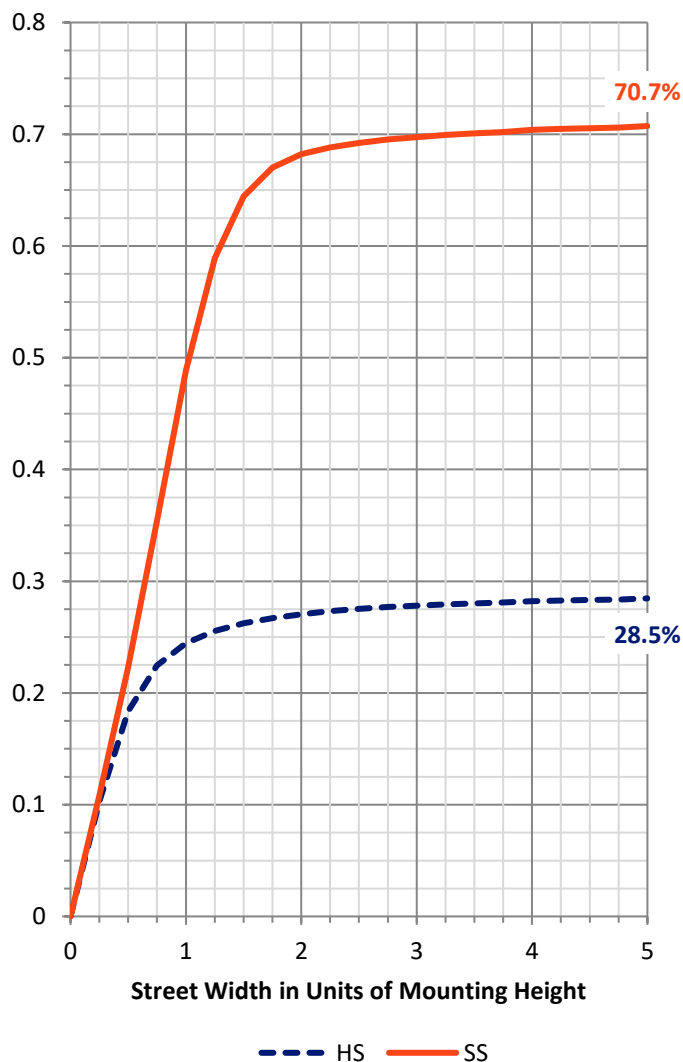
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5666.7	0.0	5666.7
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	13933.4	0.0	13933.4
	% Fixture	71.1	0.0	71.1
Total	Lumens	19600.0	0.0	19600.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.9	1.2
10°-20°	704.5	3.6
20°-30°	1251.3	6.4
30°-40°	2116.9	10.8
40°-50°	3685.2	18.8
50°-60°	4762.4	24.3
60°-70°	4167.4	21.3
70°-80°	2266.8	11.6
80°-90°	409.6	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°	19600.0	100.0
0°-180°	19600.0	100.0

Coefficient of Utilization



REPORT NUMBER: P399744

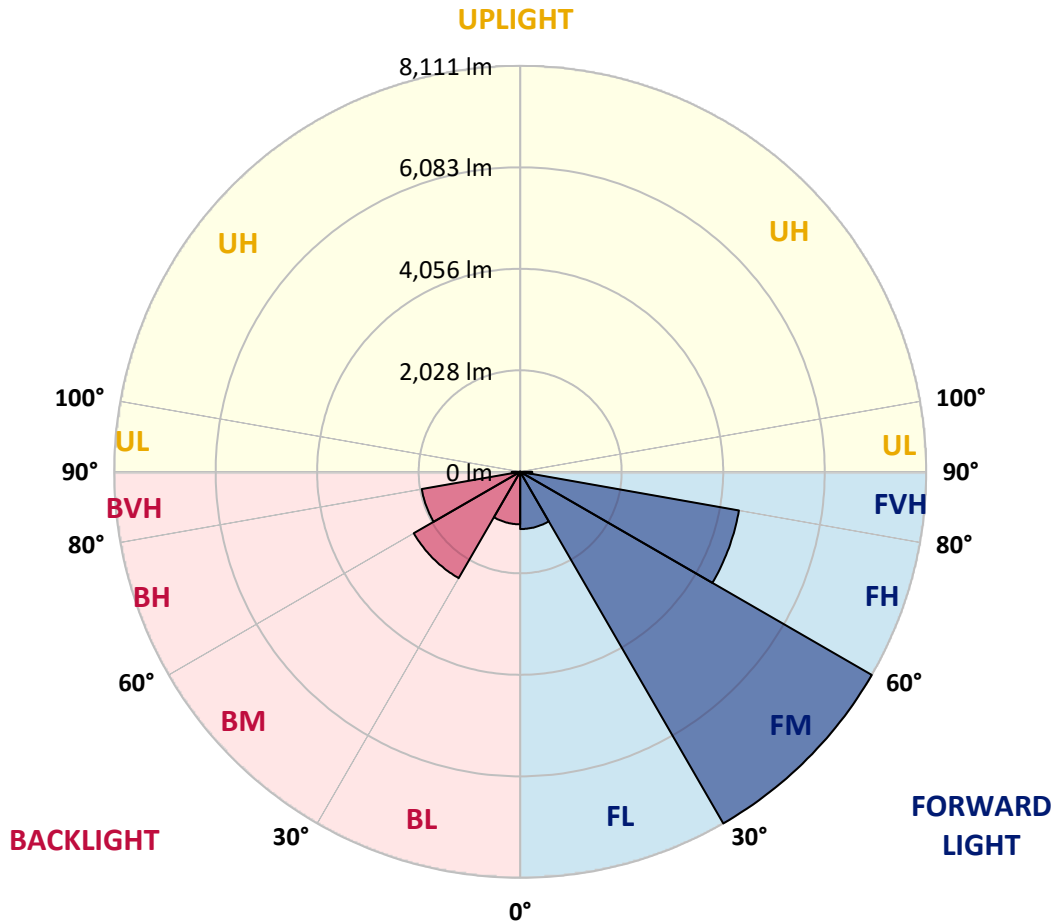
CATALOG NUMBER: ARCH-L-PA3-180-827-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1143.6	5.8			
FM (30°-60°)	8111.0	41.4			
FH (60°-80°)	4437.7	22.6			G2/5000
FVH (80°-90°)	241.0	1.2			G3/500
BL (0°-30°)	1048.1	5.3	B3/2500		
BM (30°-60°)	2453.5	12.5	B2/2500		
BH (60°-80°)	1996.4	10.2	B3/2500		G3/2500
BVH (80°-90°)	168.6	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





REPORT NUMBER: P399744

CATALOG NUMBER: ARCH-L-PA3-180-827-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6
2.5°	2432.8	2430.2	2425.1	2430.2	2432.8	2438.0	2435.4	2440.5	2438.0	2445.7	2458.6
5°	2370.9	2365.7	2363.1	2376.0	2383.8	2396.7	2401.8	2419.9	2417.3	2430.2	2450.9
7.5°	2301.2	2301.2	2298.6	2314.1	2324.4	2347.7	2365.7	2396.7	2399.3	2422.5	2445.7
10°	2247.0	2249.6	2247.0	2259.9	2275.4	2303.8	2334.8	2378.6	2381.2	2414.7	2438.0
12.5°	2226.4	2226.4	2226.4	2244.5	2265.1	2303.8	2339.9	2386.4	2391.5	2427.6	2448.3
15°	2254.8	2257.4	2252.2	2270.3	2293.5	2339.9	2373.5	2422.5	2427.6	2461.2	2474.1
17.5°	2355.4	2365.7	2352.8	2363.1	2358.0	2394.1	2425.1	2474.1	2476.6	2505.0	2510.2
20°	2554.0	2564.4	2543.7	2530.8	2484.4	2481.8	2494.7	2533.4	2533.4	2551.5	2538.6
22.5°	2861.0	2871.4	2835.2	2786.2	2675.3	2621.1	2592.7	2610.8	2608.2	2616.0	2582.4
25°	3268.7	3266.1	3222.2	3131.9	2953.9	2822.3	2752.7	2724.3	2724.3	2708.8	2667.6
27.5°	3774.3	3735.6	3658.2	3549.9	3302.2	3119.0	2969.4	2897.2	2884.3	2837.8	2760.4
30°	4313.5	4285.1	4174.2	4016.8	3730.5	3495.7	3248.0	3103.6	3095.8	2995.2	2879.1
32.5°	4948.1	4901.7	4777.9	4589.5	4246.4	3916.2	3606.6	3387.3	3374.4	3214.5	3054.5
35°	5763.4	5724.7	5484.7	5296.4	4855.3	4421.9	4055.5	3764.0	3753.7	3557.6	3353.8
37.5°	6741.1	6640.5	6408.3	6054.9	5590.5	5077.1	4612.8	4246.4	4233.5	4016.8	3758.8
40°	7613.1	7522.8	7316.4	6991.4	6493.5	5923.3	5293.8	4850.1	4837.2	4574.1	4249.0
42.5°	8258.1	8196.2	8062.0	7873.7	7517.7	7172.0	6163.2	5580.2	5557.0	5216.4	4811.4
45°	8632.2	8583.1	8505.7	8552.2	8547.0	8482.5	7200.3	6449.6	6374.8	5933.6	5438.3
47.5°	8541.9	8498.0	8529.0	8890.1	9388.0	9762.1	8407.7	7339.7	7239.0	6663.7	6106.5
50°	7889.2	7907.2	8069.7	8761.1	9878.2	10708.9	9746.6	8353.5	8219.4	7399.0	6741.1
52.5°	6699.9	6743.7	7138.4	8105.9	9824.0	11322.9	10956.6	9400.9	9222.9	8116.2	7319.0
55°	5322.2	5433.1	5944.0	6960.4	9117.2	11366.8	11869.9	10453.5	10257.5	8789.5	7822.1
57.5°	3936.8	4101.9	4692.7	5626.6	7762.7	10672.8	12326.5	11459.7	11222.3	9457.7	8353.5
60°	2497.3	2597.9	3279.0	4380.6	5941.4	8975.3	12267.2	12316.2	12109.8	10123.3	8908.2
62.5°	1594.3	1643.4	1986.5	3124.2	4153.5	6645.7	11619.6	12963.7	12824.4	10729.6	9434.5
65°	1024.2	1044.8	1220.3	1922.0	2827.5	4011.7	10007.2	13033.4	13051.4	11108.8	9759.5
67.5°	833.3	843.6	908.1	1186.7	1999.4	2216.1	6970.7	12042.7	12262.0	11010.8	9648.6
70°	758.5	771.4	838.4	946.8	1547.9	1529.8	3374.4	10076.9	10435.5	10445.8	9155.9
72.5°	639.8	657.9	748.2	895.2	1197.0	1207.4	1429.2	7177.1	7706.0	9336.5	8415.4
75°	534.0	544.3	621.7	789.4	1013.9	964.9	1003.6	3805.3	4568.9	7486.7	7628.6
77.5°	433.4	443.7	500.5	629.5	900.4	750.7	789.4	1576.3	1947.8	5082.3	6235.5
80°	309.6	319.9	384.4	490.2	681.1	675.9	585.6	869.4	944.2	2747.5	4050.4
82.5°	221.9	229.6	291.5	350.9	472.1	678.5	441.2	590.8	619.2	1217.7	1633.0
85°	149.6	149.6	201.2	232.2	304.4	428.3	356.0	399.9	417.9	577.9	441.2
87.5°	64.5	64.5	108.4	118.7	160.0	198.6	265.7	201.2	206.4	312.2	180.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P399744
 CATALOG NUMBER: ARCH-L-PA3-180-827-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6	2476.6
2.5°	2466.3	2468.9	2474.1	2489.5	2499.9	2515.3	2523.1	2533.4	2533.4	2528.2	2530.8
5°	2461.2	2468.9	2487.0	2515.3	2533.4	2561.8	2582.4	2597.9	2603.1	2597.9	2600.5
7.5°	2458.6	2471.5	2502.4	2543.7	2569.5	2605.6	2634.0	2652.1	2665.0	2659.8	2662.4
10°	2450.9	2471.5	2510.2	2561.8	2600.5	2636.6	2662.4	2670.1	2677.9	2672.7	2670.1
12.5°	2461.2	2484.4	2525.7	2587.6	2631.4	2659.8	2667.6	2654.7	2636.6	2626.3	2623.7
15°	2481.8	2505.0	2546.3	2610.8	2649.5	2659.8	2641.8	2600.5	2559.2	2536.0	2533.4
17.5°	2510.2	2525.7	2559.2	2616.0	2646.9	2634.0	2597.9	2548.9	2517.9	2499.9	2502.4
20°	2528.2	2528.2	2554.0	2597.9	2623.7	2613.4	2569.5	2515.3	2466.3	2443.1	2435.4
22.5°	2554.0	2541.1	2543.7	2582.4	2618.5	2603.1	2510.2	2414.7	2345.1	2319.3	2316.7
25°	2623.7	2587.6	2564.4	2587.6	2672.7	2546.3	2360.6	2249.6	2185.1	2161.9	2164.5
27.5°	2708.8	2659.8	2610.8	2649.5	2716.6	2417.3	2169.6	2043.2	2004.5	1986.5	1994.2
30°	2794.0	2729.5	2665.0	2804.3	2685.6	2216.1	1924.6	1800.7	1767.2	1754.3	1764.6
32.5°	2951.3	2845.6	2768.2	3010.7	2590.2	1986.5	1658.8	1545.3	1514.4	1498.9	1493.7
35°	3214.5	3080.3	3002.9	3191.3	2456.0	1731.1	1416.3	1336.4	1302.8	1269.3	1264.1
37.5°	3593.7	3431.2	3361.5	3294.5	2267.7	1478.2	1230.6	1176.4	1127.4	1075.8	1073.2
40°	4047.8	3836.2	3784.6	3340.9	2007.1	1240.9	1101.6	1050.0	988.1	939.1	941.6
42.5°	4571.5	4300.6	4189.7	3328.0	1684.6	1114.5	1008.7	952.0	897.8	853.9	851.3
45°	5131.3	4824.3	4568.9	3237.7	1364.7	1026.8	952.0	884.9	830.7	781.7	776.5
47.5°	5750.5	5407.3	4919.8	3062.3	1127.4	964.9	918.4	823.0	774.0	743.0	743.0
50°	6374.8	5964.6	5242.2	2796.5	988.1	918.4	869.4	789.4	750.7	724.9	724.9
52.5°	6908.8	6545.1	5508.0	2479.2	900.4	879.7	835.9	774.0	732.7	709.5	706.9
55°	7427.4	7084.2	5745.3	2164.5	828.1	828.1	828.1	761.1	714.6	694.0	691.4
57.5°	7943.3	7651.8	5993.0	1958.1	763.6	784.3	812.7	745.6	699.1	681.1	678.5
60°	8526.4	8332.9	6279.3	1813.6	706.9	737.8	792.0	727.5	673.3	657.9	655.3
62.5°	9145.5	9145.5	6539.9	1609.8	655.3	699.1	761.1	704.3	650.1	637.2	634.6
65°	9630.6	9839.5	6707.6	1305.4	603.7	660.4	724.9	673.3	619.2	616.6	611.4
67.5°	9687.3	10014.9	6601.8	985.5	557.2	619.2	688.8	639.8	588.2	588.2	580.5
70°	9279.7	9612.5	6271.6	737.8	523.7	577.9	642.4	598.5	549.5	554.7	541.8
72.5°	8598.6	8681.2	5451.2	583.0	485.0	534.0	585.6	552.1	508.2	508.2	490.2
75°	7700.8	7241.6	3960.1	487.6	438.6	482.4	528.9	500.5	461.8	448.9	438.6
77.5°	6129.7	5247.4	2301.2	420.5	399.9	433.4	464.4	443.7	410.2	381.8	381.8
80°	3735.6	3075.2	1016.5	363.8	353.4	379.2	399.9	376.7	348.3	319.9	312.2
82.5°	1421.5	1186.7	492.7	312.2	309.6	325.1	340.5	317.3	296.7	283.8	245.1
85°	389.6	358.6	338.0	260.6	255.4	252.8	270.9	260.6	232.2	190.9	170.3
87.5°	147.1	167.7	183.2	160.0	170.3	157.4	180.6	165.1	147.1	95.5	85.1
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)