

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: P319356

Luminaire Tested: **GAN-SA2B-740-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319356
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-740-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11454 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

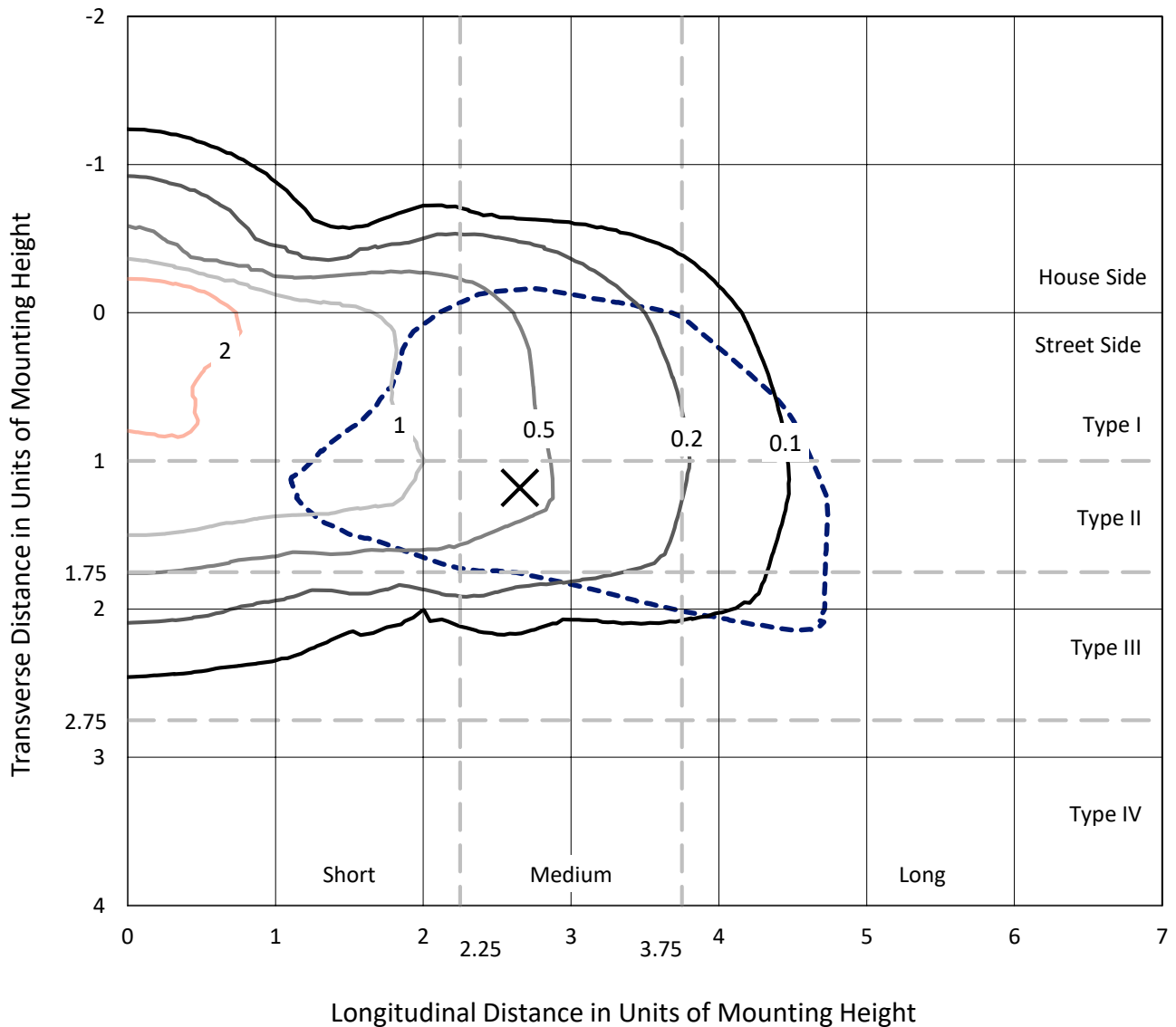
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

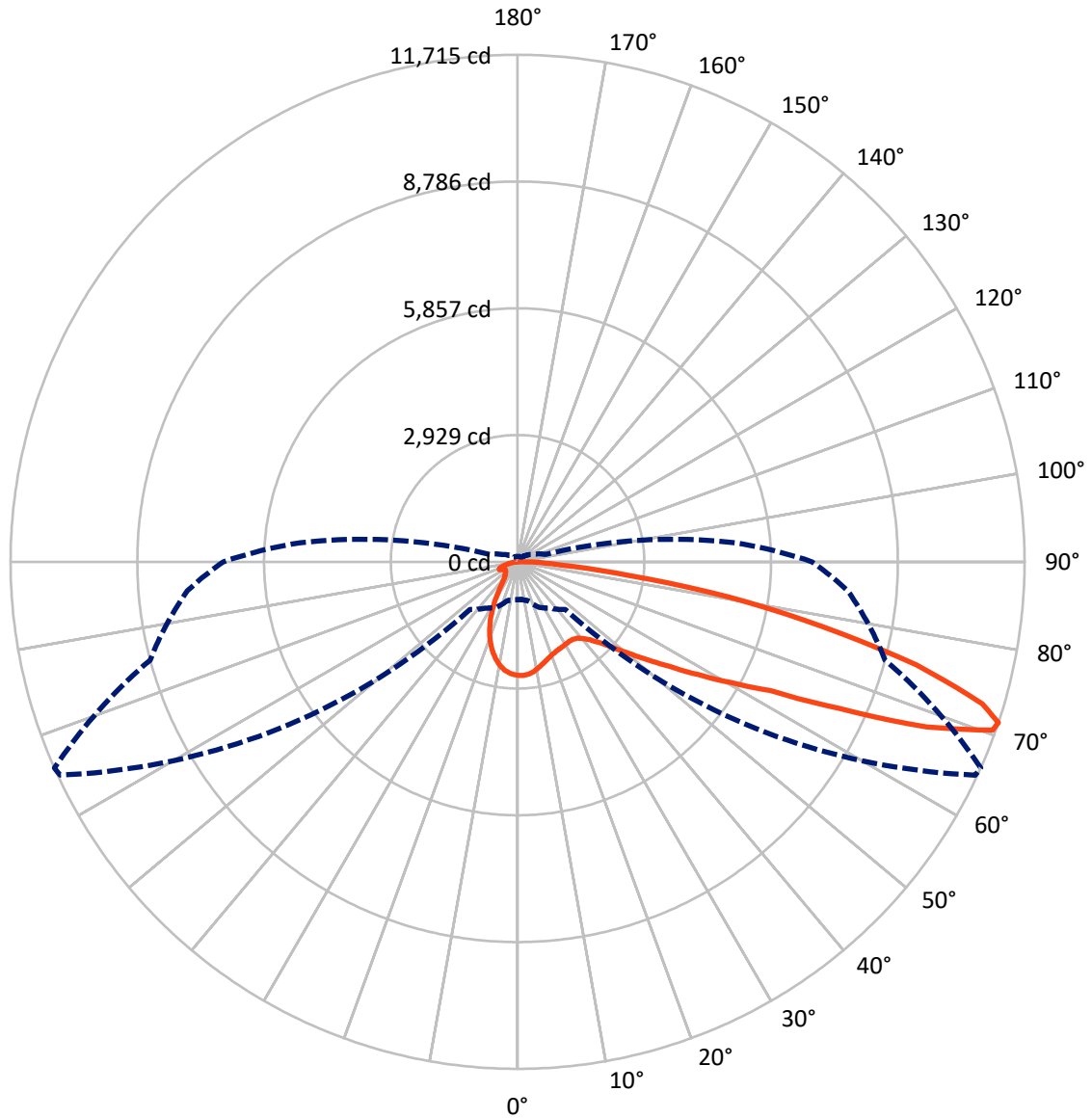
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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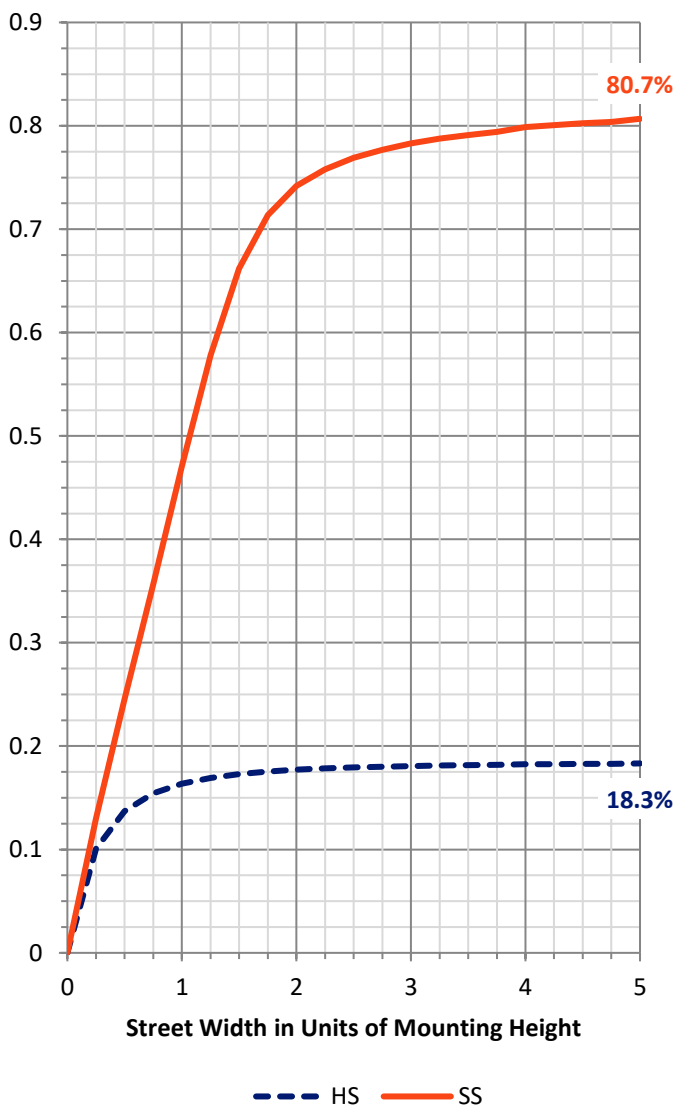
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2122.7	0.0	2122.7
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	9331.3	0.0	9331.3
	% Fixture	81.5	0.0	81.5
Total	Lumens	11454.0	0.0	11454.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.0	2.0
10°-20°	554.0	4.8
20°-30°	744.1	6.5
30°-40°	978.9	8.5
40°-50°	1424.0	12.4
50°-60°	2224.4	19.4
60°-70°	2786.4	24.3
70°-80°	2125.4	18.6
80°-90°	386.0	3.4
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°	11454.0	100.0
0°-180°	11454.0	100.0

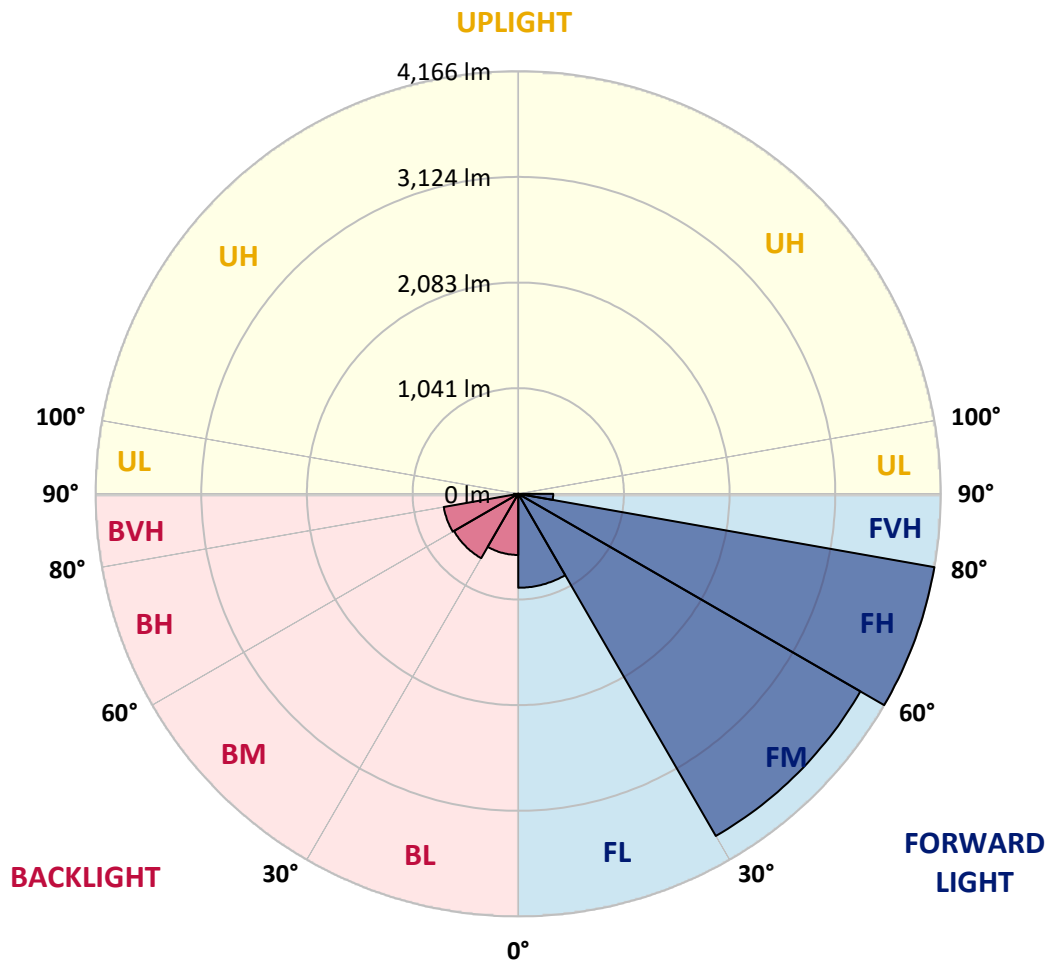


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	926.2	8.1			
FM (30°-60°)	3894.9	34.0			
FH (60°-80°)	4165.9	36.4			G2/5000
FVH (80°-90°)	344.2	3.0			G3/500
BL (0°-30°)	602.8	5.3	B2/1000		
BM (30°-60°)	732.3	6.4	B1/1000		
BH (60°-80°)	745.9	6.5	B2/1000		G2/1000
BVH (80°-90°)	41.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2623.9	2623.9	2623.9	2623.9	2623.9	2623.9	2623.9	2623.9	2623.9	2623.9	2623.9
2.5°	2575.2	2571.3	2583.2	2595.4	2600.2	2608.1	2619.9	2626.7	2626.3	2627.4	2623.5
5°	2404.4	2399.3	2423.0	2442.4	2479.5	2521.5	2572.5	2608.9	2609.7	2630.2	2635.8
7.5°	2242.7	2239.1	2266.4	2297.6	2340.7	2404.8	2487.5	2565.8	2570.5	2626.3	2645.6
10°	2113.0	2112.2	2138.7	2172.7	2222.9	2294.5	2389.4	2504.1	2511.2	2607.3	2647.2
12.5°	2011.7	2013.3	2036.2	2075.0	2128.0	2202.7	2305.5	2434.9	2446.3	2577.2	2638.1
15°	1937.0	1943.3	1961.9	2001.0	2053.2	2129.2	2234.8	2370.8	2388.2	2543.6	2633.0
17.5°	1894.3	1901.4	1914.4	1946.9	1995.9	2069.1	2169.1	2318.2	2334.0	2517.9	2633.4
20°	1881.6	1887.5	1895.1	1914.8	1956.3	2022.8	2117.3	2270.7	2287.7	2497.3	2637.3
22.5°	1906.5	1910.9	1911.7	1910.1	1935.4	1989.6	2079.7	2235.9	2254.1	2483.9	2640.1
25°	1959.9	1965.8	1961.5	1946.9	1938.6	1971.8	2060.4	2213.0	2231.2	2474.0	2634.6
27.5°	2040.2	2041.0	2037.4	2018.4	1979.3	1973.8	2054.4	2199.6	2217.0	2462.5	2623.1
30°	2149.3	2154.5	2148.1	2122.4	2058.4	2005.4	2061.5	2186.5	2202.3	2447.9	2604.5
32.5°	2277.1	2289.7	2289.3	2262.4	2170.7	2076.2	2090.8	2178.6	2190.9	2432.5	2582.0
35°	2409.5	2426.9	2459.4	2447.9	2334.4	2188.1	2147.0	2191.3	2199.6	2430.5	2566.2
37.5°	2547.2	2564.6	2631.4	2662.2	2529.4	2348.3	2235.5	2235.9	2239.9	2454.6	2565.0
40°	2691.1	2709.7	2810.2	2890.4	2782.1	2551.1	2378.3	2329.3	2324.9	2514.0	2588.3
42.5°	2892.8	2909.4	3030.0	3132.5	3062.5	2810.9	2575.6	2473.2	2464.1	2630.2	2663.0
45°	3147.9	3162.1	3290.2	3399.8	3363.8	3107.5	2823.6	2671.3	2669.8	2824.0	2814.5
47.5°	3451.2	3462.3	3577.3	3683.3	3696.4	3448.8	3135.2	2977.0	2951.3	3089.7	3049.0
50°	3767.2	3779.4	3857.7	3971.6	4068.5	3905.6	3536.2	3351.5	3317.1	3440.5	3381.2
52.5°	3976.4	3992.6	4060.6	4204.9	4486.9	4406.2	4010.4	3805.5	3753.3	3865.6	3820.2
55°	3883.0	3919.4	4023.4	4254.8	4821.5	5171.1	4595.3	4335.1	4276.1	4369.5	4342.6
57.5°	3458.7	3508.5	3650.5	4007.6	4868.5	5844.9	5479.5	4958.7	4917.2	4890.3	4902.5
60°	2683.2	2731.1	2907.0	3372.5	4540.7	6336.9	6810.2	5727.5	5667.4	5413.1	5424.2
62.5°	1899.0	1874.9	1995.5	2336.0	3689.7	6394.6	8324.5	6755.7	6557.9	5965.1	5916.5
65°	1448.2	1442.6	1496.8	1605.2	2234.8	5703.7	9226.5	8483.8	8175.0	6614.5	6499.8
67.5°	1189.9	1180.1	1233.4	1391.2	1439.1	3679.8	9246.3	10488.8	10185.5	7422.8	7174.5
70°	978.4	967.3	1017.1	1220.8	1329.9	1866.2	7781.9	11663.0	11646.7	8446.3	7683.8
71°	877.1	869.2	928.9	1155.1	1306.6	1555.4	6718.9	11666.1	11714.8	8792.7	7653.8
72.5°	714.2	717.0	780.2	1028.2	1289.2	1373.4	4938.1	11122.4	11225.2	9122.9	7380.5
75°	474.6	476.9	560.0	790.9	1250.1	1343.8	2714.1	9332.9	9521.9	8925.2	6734.7
77.5°	318.7	318.0	374.5	542.6	1089.1	1343.8	1591.3	6980.3	7187.9	7101.7	5192.0
80°	219.5	217.9	257.8	374.5	824.5	1360.0	1230.3	4891.9	4954.7	3835.2	2110.2
82.5°	134.5	135.6	168.5	264.6	561.2	1224.0	1161.5	2667.4	2599.0	1075.7	527.2
85°	77.1	76.7	107.6	179.1	360.3	1032.9	1132.6	1148.0	1053.1	323.9	190.6
87.5°	27.7	29.7	57.7	99.3	206.4	719.3	961.0	597.1	538.2	146.3	86.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2623.9	2623.9	2623.9	2623.9	2623.9	2623.9	2623.9	2623.9	2623.9	2623.9	2623.9
2.5°	2620.7	2623.1	2620.3	2604.5	2591.1	2569.3	2557.1	2540.1	2534.9	2532.5	2538.9
5°	2630.6	2631.4	2608.1	2566.5	2519.9	2464.9	2425.4	2376.7	2353.8	2343.9	2350.2
7.5°	2639.7	2636.1	2585.1	2505.6	2419.4	2323.7	2238.7	2160.8	2115.3	2096.7	2098.3
10°	2640.9	2625.9	2544.0	2421.0	2287.4	2147.0	2016.5	1896.2	1820.3	1770.9	1785.9
12.5°	2628.6	2603.3	2483.5	2311.5	2126.0	1934.6	1758.2	1577.9	1469.5	1419.3	1420.9
15°	2619.1	2573.3	2409.2	2182.6	1933.4	1679.9	1439.1	1227.1	1111.6	1060.2	1036.1
17.5°	2611.2	2540.8	2322.9	2037.4	1706.0	1384.5	1095.0	906.0	842.7	827.7	821.4
20°	2600.2	2506.4	2226.8	1869.3	1447.0	1053.9	799.6	706.3	706.7	724.1	726.5
22.5°	2584.7	2467.3	2124.4	1680.7	1169.0	767.6	626.8	599.9	627.2	660.4	666.4
25°	2561.8	2421.0	2010.5	1472.3	891.4	590.0	535.5	534.3	567.5	602.3	607.4
27.5°	2529.4	2360.5	1884.0	1248.5	656.9	501.4	479.7	488.0	512.5	537.8	539.8
30°	2485.9	2290.1	1744.4	1012.4	514.9	446.5	444.1	451.6	466.6	484.4	486.0
32.5°	2438.0	2218.5	1595.3	783.8	440.9	416.8	419.2	422.7	429.9	437.0	438.6
35°	2394.5	2145.4	1442.6	595.6	405.7	397.4	395.9	395.1	395.9	393.5	393.9
37.5°	2366.4	2084.9	1283.7	474.2	385.6	380.4	375.7	369.8	363.0	359.1	359.9
40°	2356.2	2039.8	1122.7	409.7	369.0	365.4	356.3	343.7	335.7	333.4	333.4
42.5°	2383.8	2016.5	967.3	377.3	355.1	349.2	334.2	319.5	313.6	313.2	312.8
45°	2468.5	2026.0	819.4	359.5	342.5	331.0	311.2	299.0	295.0	295.8	295.4
47.5°	2620.3	2085.7	692.8	347.6	329.8	314.8	292.6	282.8	278.0	278.0	278.4
50°	2878.6	2225.3	592.0	337.7	319.1	299.8	279.2	266.9	260.6	260.2	260.2
52.5°	3254.7	2475.2	529.1	329.4	307.3	286.3	265.8	250.3	242.8	241.2	240.4
55°	3726.0	2833.5	511.7	323.9	291.5	271.7	249.5	234.1	225.8	222.2	221.9
57.5°	4253.2	3269.3	546.1	317.2	275.2	254.3	231.7	217.1	208.4	204.1	203.7
60°	4786.7	3745.0	686.5	307.7	261.8	235.3	213.5	200.1	191.4	186.7	185.9
62.5°	5320.9	4246.5	973.2	306.9	252.3	217.1	195.0	183.5	175.2	170.0	168.9
65°	5923.6	4795.4	1299.1	327.8	249.1	200.5	176.0	166.9	159.8	155.0	154.6
67.5°	6615.7	5415.1	1267.9	370.9	259.8	185.5	158.2	151.1	145.9	142.0	141.6
70°	6940.4	5318.2	788.2	401.4	274.8	170.8	141.2	136.0	132.1	129.3	128.1
71°	6804.3	5049.7	660.8	397.8	273.3	164.5	134.5	130.5	126.5	124.2	123.0
72.5°	6433.4	4605.2	551.3	370.2	255.5	153.0	125.8	121.8	118.2	115.5	114.7
75°	5773.0	4112.8	441.3	295.8	203.7	129.3	110.3	106.0	103.2	101.6	100.1
77.5°	4243.7	2935.1	341.3	233.7	149.9	105.6	94.1	91.0	88.2	85.8	84.6
80°	1625.7	1137.0	229.8	174.4	109.9	83.4	75.9	74.3	71.6	70.0	70.0
82.5°	437.8	339.7	122.6	105.6	73.6	60.9	58.1	57.3	55.0	51.8	52.2
85°	177.2	149.9	68.8	58.1	45.1	36.0	39.2	39.5	36.8	32.8	33.2
87.5°	77.9	63.7	38.4	25.7	19.8	13.8	17.8	17.8	16.2	13.4	12.3
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)