

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P387140

Luminaire Tested: GAW-SA2D-827-U-SL2-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387140
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2D-827-U-SL2-HSS
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9859 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

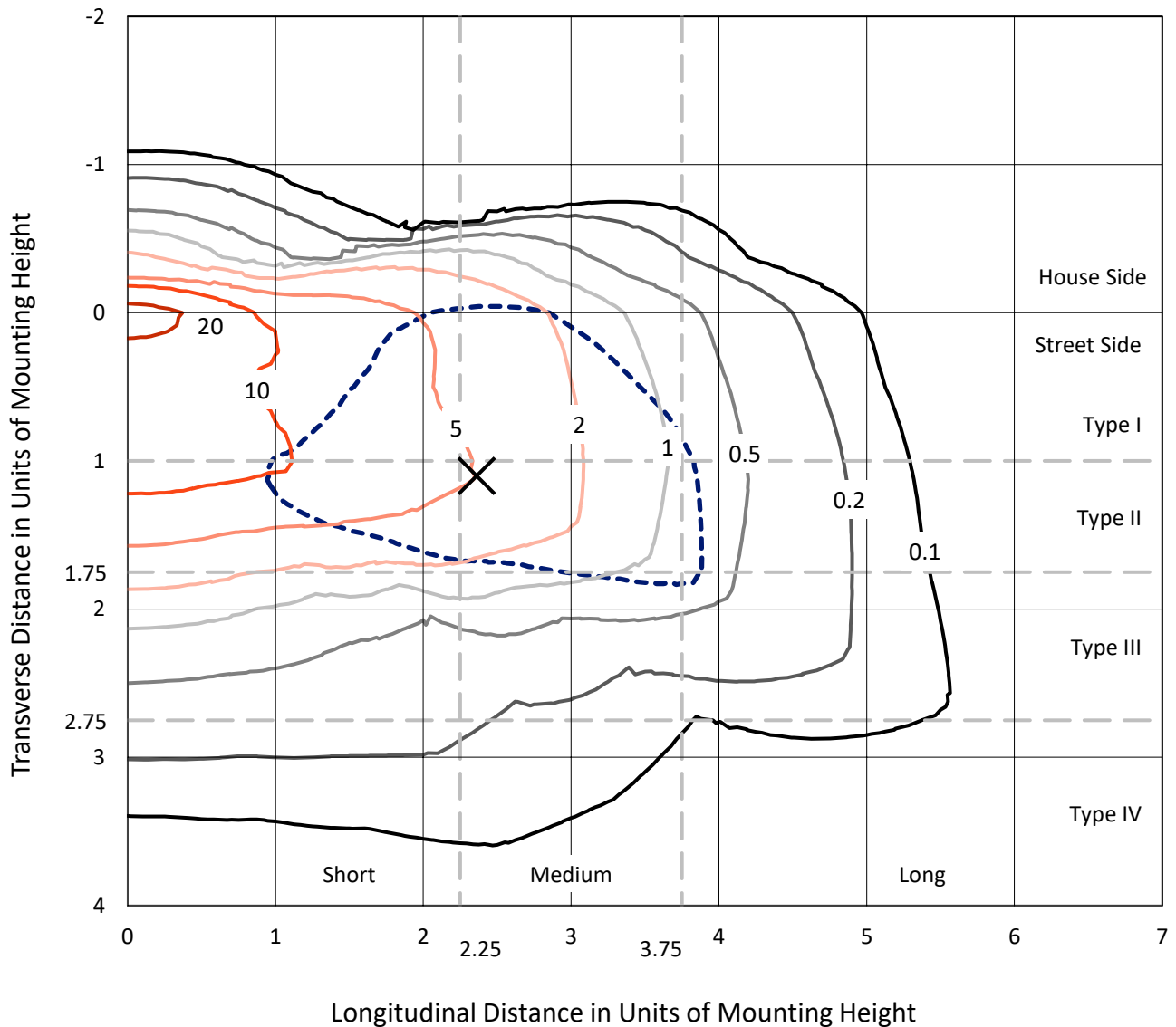
Input Watts (W): 128
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

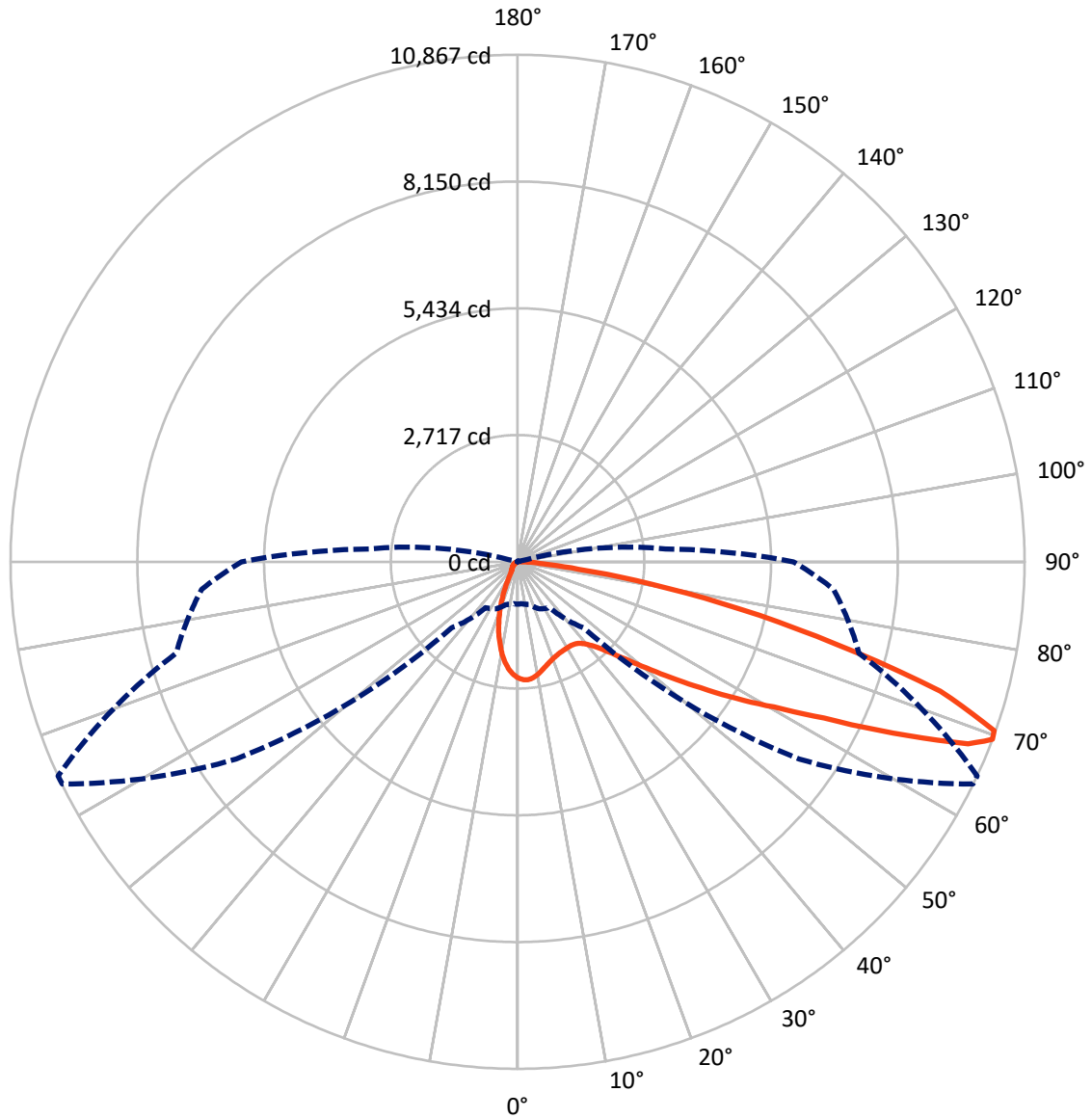
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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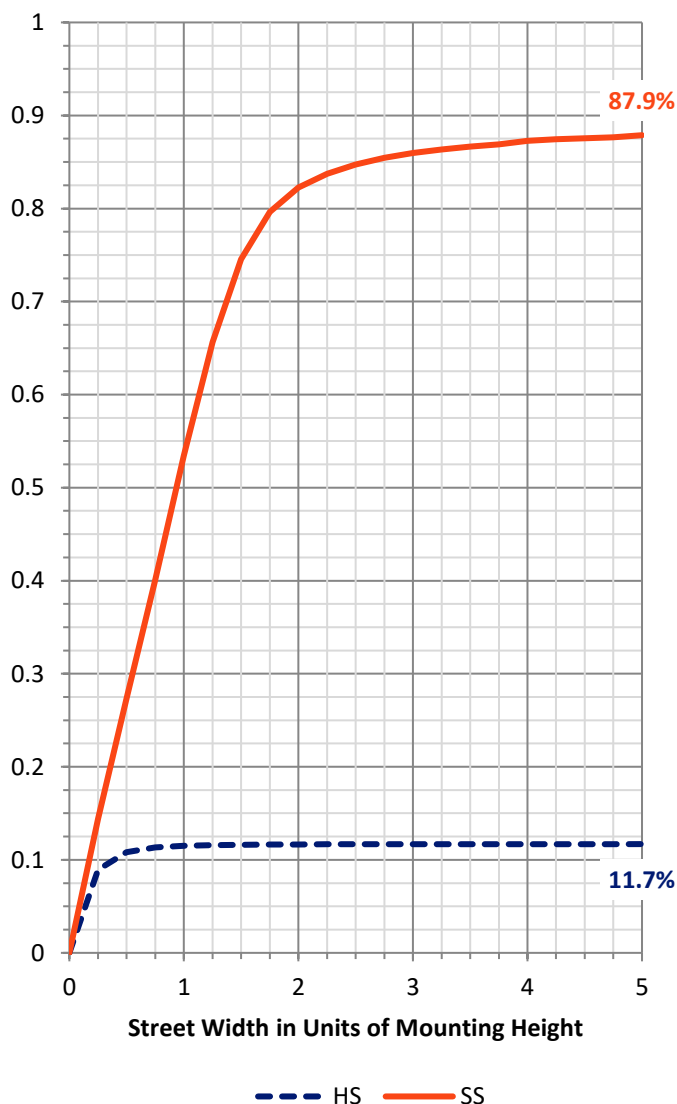
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1162.1	0.0	1162.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	8696.9	0.0	8696.9
	% Fixture	88.2	0.0	88.2
Total	Lumens	9859.0	0.0	9859.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.3	2.1
10°-20°	456.0	4.6
20°-30°	631.6	6.4
30°-40°	880.7	8.9
40°-50°	1368.9	13.9
50°-60°	2197.6	22.3
60°-70°	2485.9	25.2
70°-80°	1460.0	14.8
80°-90°	169.8	1.7
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°	9859.0	100.0
0°-180°	9859.0	100.0

Coefficient of Utilization

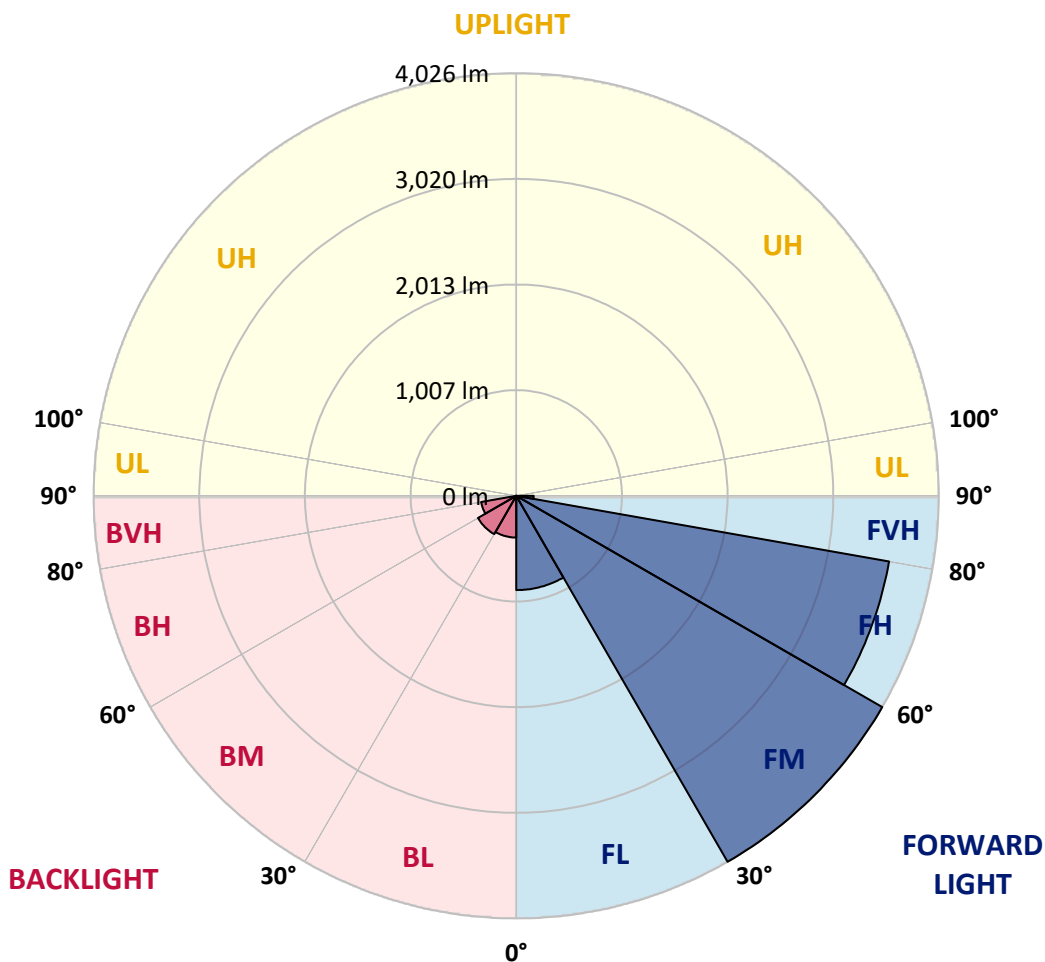


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	898.4	9.1			
FM (30°-60°)	4026.1	40.8			
FH (60°-80°)	3606.3	36.6			G2/5000
FVH (80°-90°)	166.0	1.7			G2/225
BL (0°-30°)	397.6	4.0	B1/500		
BM (30°-60°)	421.1	4.3	B1/1000		
BH (60°-80°)	339.6	3.4	B1/500		G1/500
BVH (80°-90°)	3.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2491.4	2491.4	2491.4	2491.4	2491.4	2491.4	2491.4	2491.4	2491.4	2491.4	2491.4
2.5°	2513.5	2507.2	2512.2	2523.1	2528.5	2528.5	2532.7	2527.7	2529.3	2517.3	2499.7
5°	2356.2	2346.6	2360.4	2390.8	2428.4	2460.5	2508.1	2533.1	2535.6	2536.0	2515.6
7.5°	2186.8	2178.1	2198.5	2234.4	2282.8	2342.5	2425.5	2498.1	2502.2	2541.4	2526.4
10°	2049.2	2042.9	2066.7	2105.1	2161.8	2228.6	2330.4	2431.3	2443.4	2530.2	2524.8
12.5°	1939.9	1934.9	1957.4	2001.6	2059.6	2133.4	2239.8	2357.1	2373.3	2504.7	2516.4
15°	1860.2	1859.4	1878.1	1920.7	1984.9	2053.8	2162.7	2288.2	2307.0	2477.2	2515.2
17.5°	1818.5	1819.7	1833.5	1869.8	1924.9	1993.3	2097.6	2230.2	2250.7	2452.6	2521.4
20°	1814.3	1815.6	1823.1	1843.5	1888.1	1948.6	2044.6	2181.4	2202.7	2434.2	2531.4
22.5°	1851.0	1850.2	1852.3	1850.2	1875.2	1921.1	2009.5	2143.9	2168.5	2422.1	2539.4
25°	1921.5	1920.3	1919.4	1904.0	1887.3	1911.9	1994.9	2122.6	2146.0	2413.4	2544.0
27.5°	2019.6	2018.7	2017.5	1992.0	1942.0	1926.5	1996.6	2114.7	2134.3	2406.3	2543.1
30°	2148.5	2154.3	2152.6	2117.2	2039.2	1971.2	2014.1	2110.5	2127.6	2392.5	2534.4
32.5°	2299.9	2311.6	2320.8	2282.8	2185.2	2059.6	2054.6	2115.1	2127.6	2382.1	2518.5
35°	2457.2	2472.2	2506.0	2492.6	2364.1	2192.7	2124.3	2142.6	2153.1	2387.9	2511.0
37.5°	2612.0	2629.9	2703.3	2742.1	2598.6	2368.7	2232.7	2210.6	2216.0	2423.4	2519.3
40°	2791.8	2818.9	2930.3	2992.8	2878.5	2604.4	2395.0	2327.4	2329.5	2501.4	2558.1
42.5°	3027.9	3055.8	3176.4	3274.4	3193.9	2902.3	2615.3	2506.0	2503.9	2647.4	2649.5
45°	3315.7	3344.9	3469.7	3578.6	3542.3	3255.2	2897.3	2766.7	2764.2	2877.7	2822.6
47.5°	3642.0	3670.7	3782.1	3894.4	3933.6	3667.4	3256.5	3122.6	3116.7	3197.7	3090.0
50°	3921.9	3940.7	4043.3	4194.3	4371.2	4173.9	3703.3	3574.4	3568.1	3622.8	3482.6
52.5°	4023.7	4034.5	4138.8	4350.3	4791.7	4859.7	4290.3	4124.2	4119.6	4143.4	4005.3
55°	3817.6	3837.2	3965.3	4279.0	5019.5	5634.8	5031.2	4805.1	4770.4	4719.1	4551.8
57.5°	3256.1	3287.4	3425.0	3842.2	4913.1	6249.7	6120.0	5575.2	5524.3	5210.6	4996.1
60°	2439.7	2478.0	2592.3	3042.5	4345.3	6468.8	7309.8	6433.3	6318.6	5601.9	5404.5
62.5°	1674.1	1693.3	1770.9	2064.2	3200.2	6110.0	8305.2	7582.6	7373.2	6027.4	5846.3
65°	1278.7	1285.3	1317.0	1418.0	1905.7	4963.2	8701.1	9099.1	8845.8	6536.3	6304.8
67.5°	1030.4	1025.0	1068.8	1213.2	1276.1	3027.9	8239.3	10533.7	10415.3	7216.8	6766.2
69°	908.6	901.1	945.7	1113.4	1198.6	2001.6	7365.7	10859.6	10867.1	7576.0	6797.9
70°	817.7	822.7	866.9	1054.2	1172.3	1571.1	6531.3	10776.5	10835.8	7710.3	6607.7
72.5°	546.1	559.4	648.3	875.2	1127.2	1189.0	3943.6	9247.6	9475.4	7407.8	5669.0
75°	307.9	317.9	423.4	660.0	1062.1	1132.2	2083.0	6812.9	7033.2	6194.7	4371.6
77.5°	151.0	156.4	239.5	425.9	888.2	1078.8	1181.4	4627.8	4879.3	4043.3	2472.6
80°	63.8	66.7	119.7	262.8	634.9	1029.6	877.3	2848.1	2879.4	1584.0	658.7
82.5°	24.6	25.4	50.5	164.0	403.4	802.7	733.8	1350.4	1317.9	298.3	150.2
85°	2.9	3.3	18.4	98.5	224.4	413.0	596.1	582.0	538.6	59.2	77.2
87.5°	0.0	0.0	1.3	30.0	66.7	193.6	310.0	241.5	217.8	19.2	40.0
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°	2491.4	2491.4	2491.4	2491.4	2491.4	2491.4	2491.4	2491.4	2491.4	2491.4	2491.4
2.5°	2485.1	2481.0	2458.4	2425.9	2395.0	2356.6	2319.9	2297.8	2280.3	2268.6	2282.4
5°	2491.8	2473.4	2405.0	2317.4	2231.5	2134.7	2044.6	1968.2	1938.2	1904.8	1919.9
7.5°	2489.7	2455.1	2332.0	2176.0	2018.3	1855.2	1700.8	1581.9	1520.2	1459.7	1475.1
10°	2479.3	2420.9	2234.4	2003.3	1767.2	1532.7	1313.7	1147.2	1054.2	969.9	982.0
12.5°	2456.3	2375.0	2119.3	1805.5	1489.7	1180.6	924.0	710.9	596.6	546.1	552.3
15°	2442.6	2330.4	1997.4	1605.3	1193.5	822.3	564.9	420.1	368.0	351.3	353.3
17.5°	2435.9	2287.4	1871.5	1376.3	890.7	523.6	365.0	322.1	310.8	307.9	308.7
20°	2429.2	2244.0	1741.7	1149.7	613.7	352.1	300.0	287.4	283.3	279.5	280.3
22.5°	2418.0	2202.3	1602.4	920.3	413.8	285.8	270.3	258.2	249.5	244.9	245.7
25°	2404.2	2158.5	1460.1	685.4	302.0	254.9	240.3	223.2	212.8	204.4	204.8
27.5°	2382.1	2104.7	1313.3	498.9	253.6	228.2	208.6	189.8	172.3	162.7	162.7
30°	2351.2	2043.8	1150.2	357.1	227.4	201.9	178.1	154.8	136.0	127.2	126.4
32.5°	2317.0	1980.3	985.4	270.7	206.5	177.3	150.2	125.6	108.9	101.8	101.4
35°	2287.8	1911.9	821.0	226.9	185.6	153.5	123.9	103.0	89.7	83.9	83.4
37.5°	2269.0	1843.5	660.8	202.7	166.9	131.4	103.9	85.1	75.5	70.9	70.5
40°	2266.1	1792.6	514.4	184.4	149.3	111.8	86.8	72.2	63.4	58.4	58.0
42.5°	2304.1	1763.4	394.7	169.0	131.4	94.7	73.8	61.7	52.6	47.6	47.1
45°	2403.8	1772.6	303.7	155.2	113.5	80.1	62.6	51.3	43.0	39.2	38.4
47.5°	2585.7	1836.0	241.5	141.4	96.4	68.0	53.4	42.6	35.5	31.7	31.3
50°	2909.4	1984.9	201.9	126.4	80.5	58.0	44.2	34.6	28.8	25.4	25.0
52.5°	3339.1	2250.3	180.2	111.8	66.7	49.2	36.3	27.5	22.5	20.0	19.6
55°	3813.0	2571.5	166.0	96.0	54.7	40.9	28.8	21.7	17.5	15.4	14.6
57.5°	4275.7	2849.7	152.7	80.5	45.5	33.4	22.9	17.1	13.8	11.7	11.3
60°	4700.8	3105.5	137.3	64.7	37.1	26.3	17.9	13.3	10.8	8.8	8.8
62.5°	5155.9	3303.2	116.0	50.5	30.5	20.0	14.6	12.1	8.8	7.5	7.1
65°	5638.2	3450.1	90.9	39.2	23.8	15.0	12.1	12.5	7.1	5.4	5.0
67.5°	5994.4	3420.9	67.2	30.9	18.4	11.7	11.7	13.3	6.3	4.2	3.8
69°	5916.0	3183.5	56.3	26.7	15.9	10.0	10.8	13.3	5.8	3.8	3.3
70°	5688.6	2920.7	49.6	23.8	14.2	9.2	10.4	12.9	5.4	3.8	3.3
72.5°	4737.5	2199.8	38.8	17.9	11.3	7.5	8.8	11.3	5.4	3.8	2.9
75°	3563.5	1408.0	29.6	12.9	8.3	5.8	6.7	8.3	5.4	3.3	2.9
77.5°	1939.0	507.7	21.3	8.8	5.8	4.6	4.6	6.3	5.0	2.5	1.7
80°	498.5	127.7	13.3	5.8	4.6	3.3	2.9	4.2	2.9	0.4	0.0
82.5°	123.1	28.8	7.1	4.2	3.3	1.3	1.3	2.1	1.3	0.0	0.0
85°	67.6	14.2	4.6	2.9	1.7	0.0	0.0	0.4	0.0	0.0	0.0
87.5°	34.6	4.2	1.3	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
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)