

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: P319976

Luminaire Tested: **GAN-SA2D-730-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319976
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13739 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

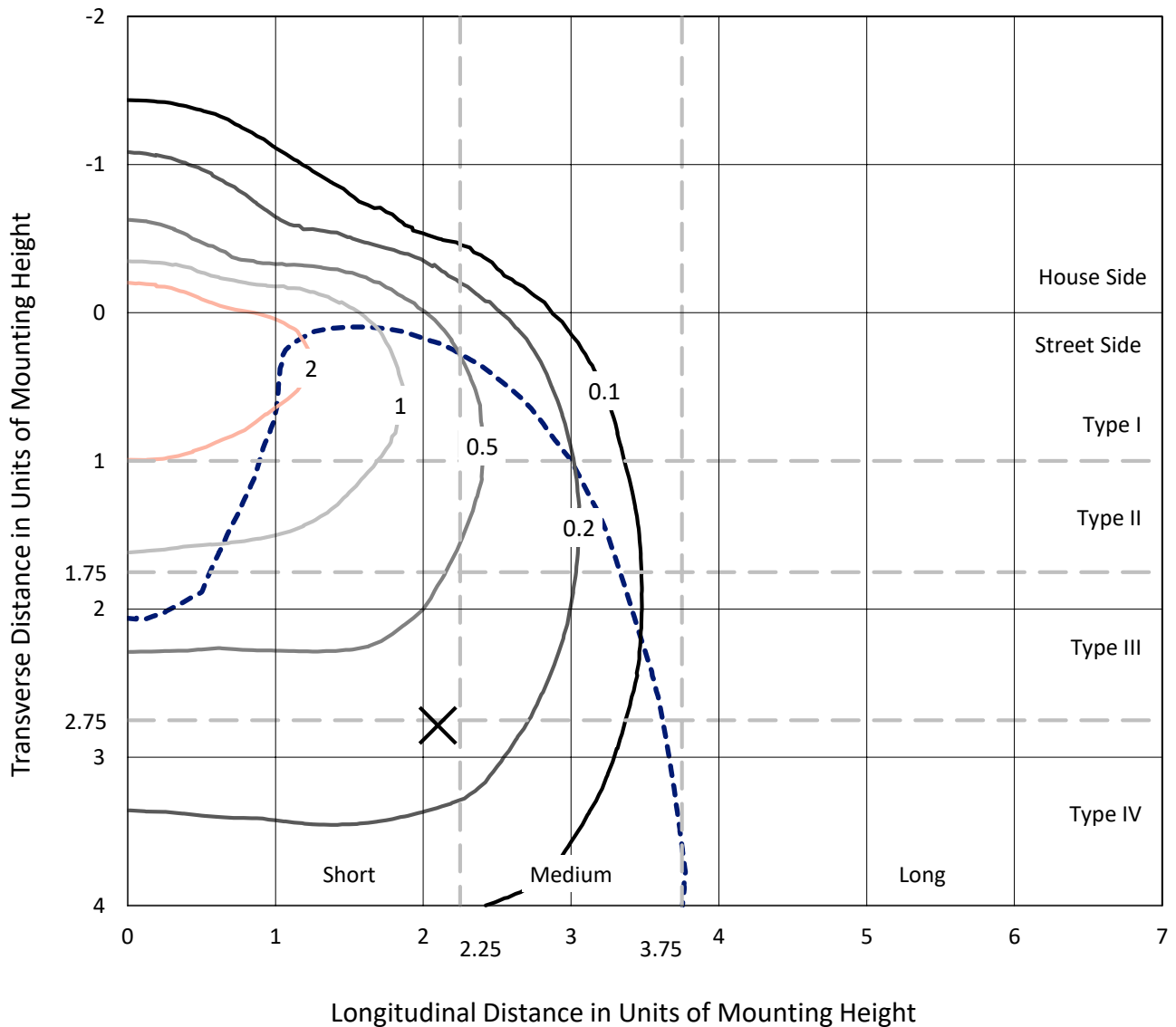
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

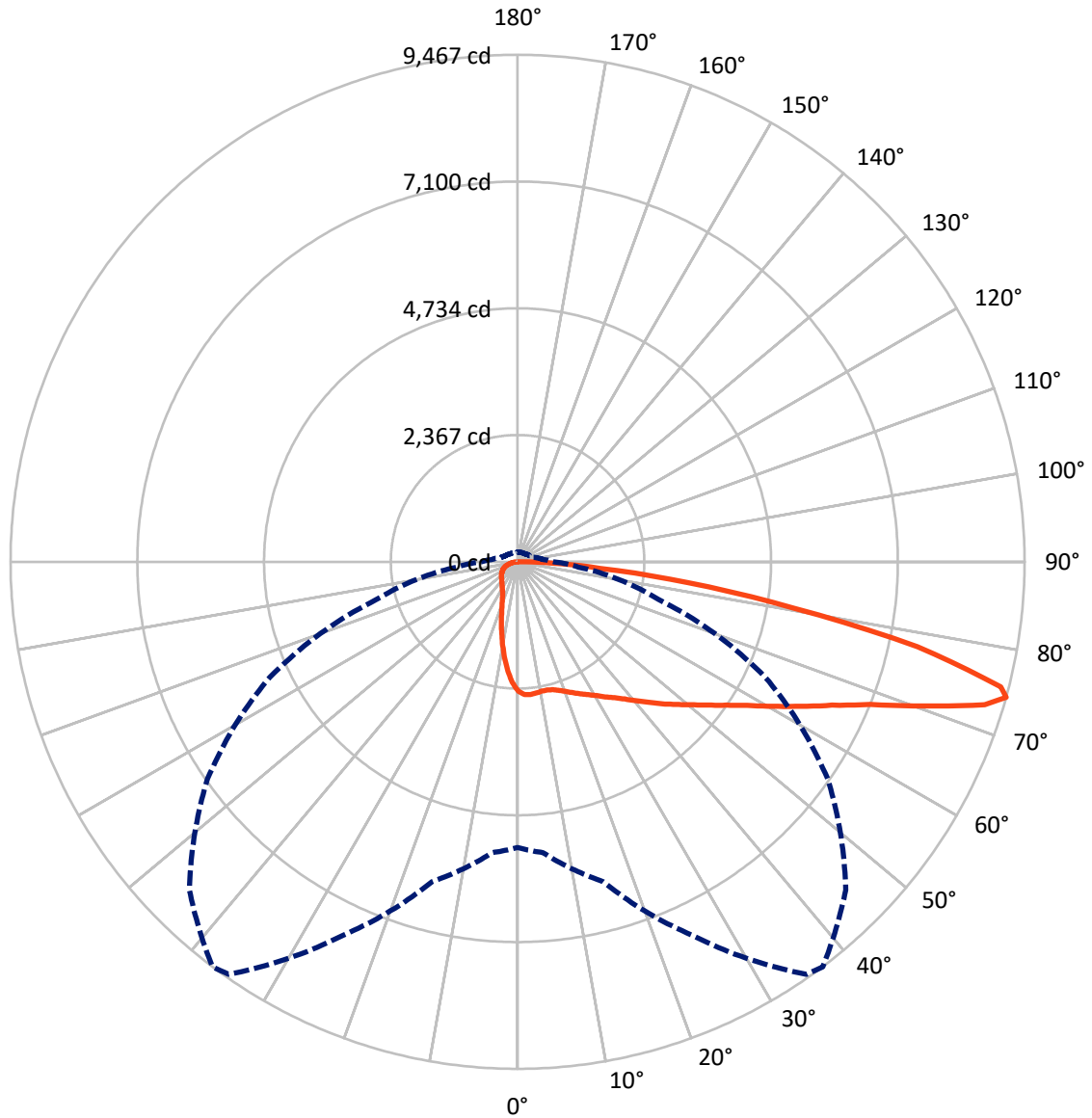
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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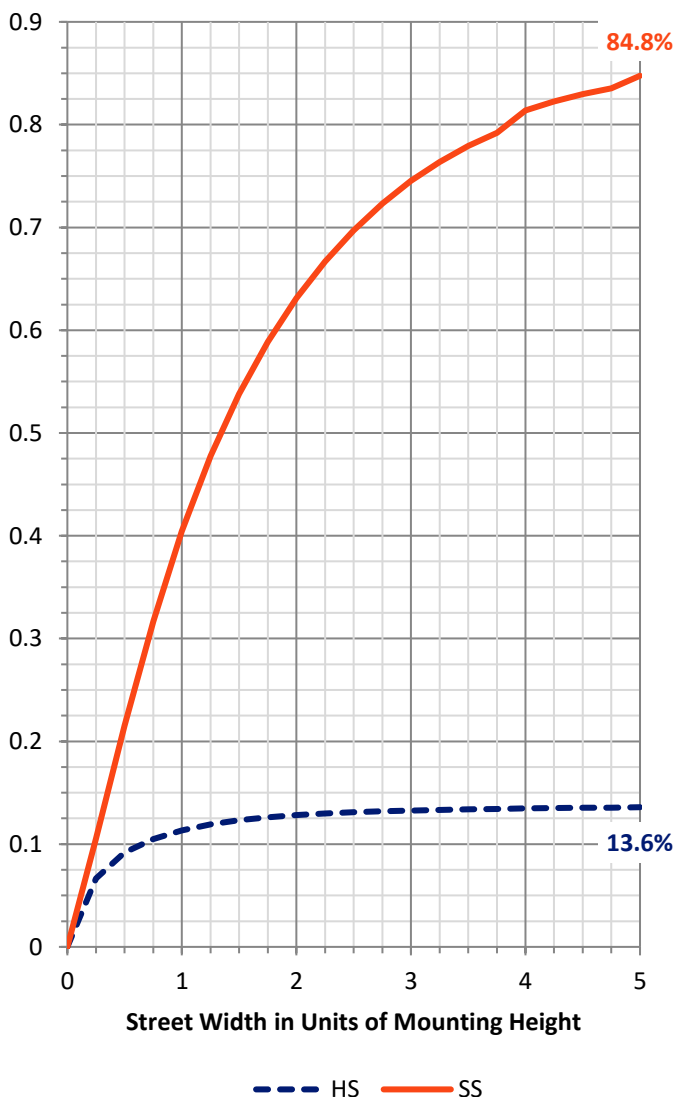
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1890.4	0.0	1890.4
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	11848.6	0.0	11848.6
	% Fixture	86.2	0.0	86.2
Total	Lumens	13739.0	0.0	13739.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.2	1.6
10°-20°	546.4	4.0
20°-30°	841.9	6.1
30°-40°	1224.3	8.9
40°-50°	1802.0	13.1
50°-60°	2530.5	18.4
60°-70°	3202.9	23.3
70°-80°	2820.2	20.5
80°-90°	557.6	4.1
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°	13739.0	100.0
0°-180°	13739.0	100.0

Coefficient of Utilization

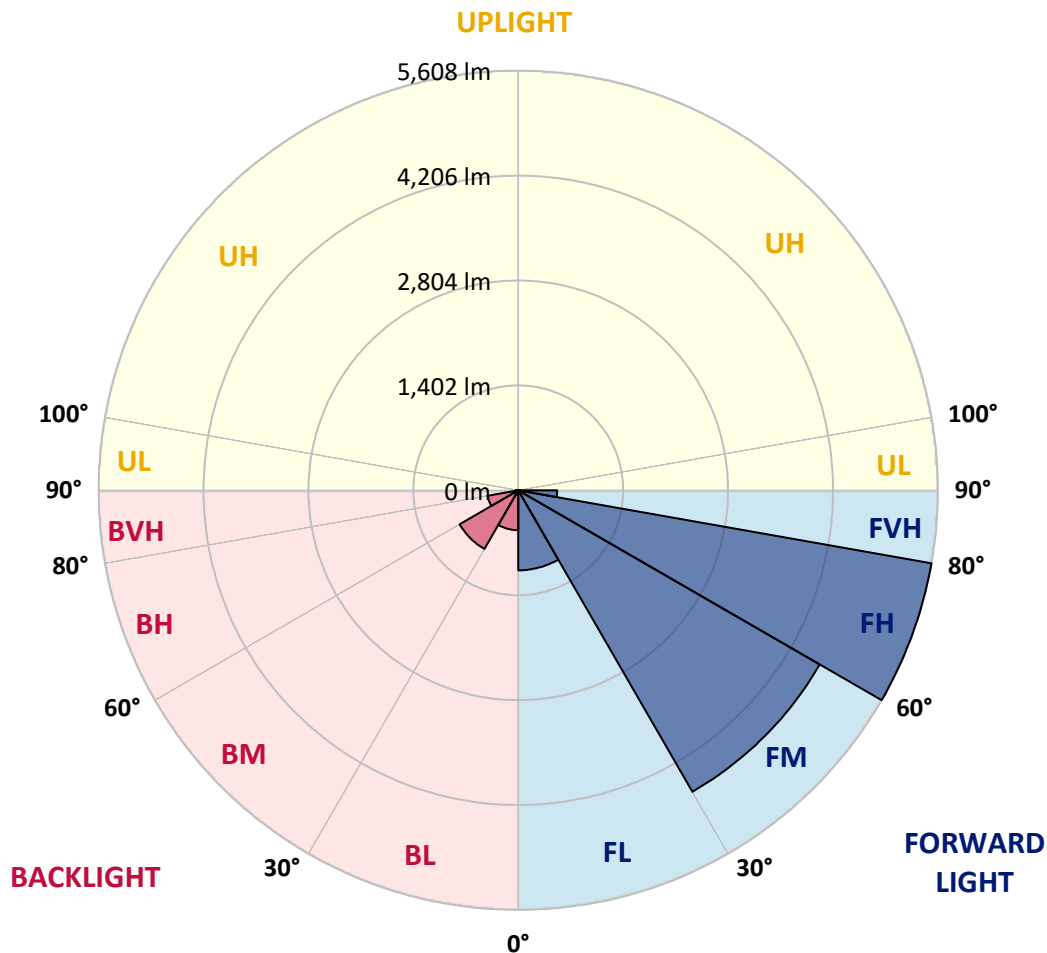


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1069.1	7.8			
FM (30°-60°)	4652.1	33.9			
FH (60°-80°)	5607.6	40.8			G3/7500
FVH (80°-90°)	519.9	3.8			G4/750
BL (0°-30°)	532.5	3.9	B2/1000		
BM (30°-60°)	904.6	6.6	B1/1000		
BH (60°-80°)	415.5	3.0	B1/500		G1/500
BVH (80°-90°)	37.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8
2.5°	2503.5	2504.0	2503.5	2499.6	2490.4	2482.7	2476.4	2467.2	2446.9	2431.4	2408.2
5°	2527.2	2524.3	2522.4	2515.1	2500.6	2491.9	2479.8	2462.4	2429.0	2398.0	2360.3
7.5°	2516.1	2512.7	2508.4	2499.6	2483.2	2475.9	2459.0	2436.2	2396.1	2355.4	2301.2
10°	2481.7	2480.8	2478.8	2476.9	2462.9	2457.1	2441.6	2417.4	2377.7	2328.3	2264.9
12.5°	2443.5	2445.9	2453.7	2463.8	2457.5	2454.6	2445.0	2428.5	2387.8	2334.6	2258.1
15°	2419.3	2426.1	2446.9	2473.5	2478.8	2477.9	2475.4	2464.8	2421.7	2362.7	2273.6
17.5°	2411.1	2422.2	2461.9	2505.9	2521.4	2524.8	2525.8	2507.4	2459.5	2397.0	2289.6
20°	2426.1	2440.1	2498.2	2558.7	2583.4	2585.3	2580.9	2549.0	2495.3	2426.6	2298.3
22.5°	2471.6	2484.2	2556.8	2625.0	2653.1	2656.0	2642.9	2594.5	2533.0	2461.4	2310.4
25°	2559.2	2574.7	2647.3	2715.5	2730.0	2730.5	2711.6	2651.6	2582.4	2510.3	2336.5
27.5°	2673.4	2688.9	2754.2	2821.0	2813.2	2808.9	2783.2	2723.2	2646.8	2577.6	2383.0
30°	2800.7	2817.6	2879.6	2927.0	2908.6	2899.9	2879.1	2801.6	2736.3	2669.5	2454.2
32.5°	2932.3	2947.8	3002.0	3034.4	3011.2	3007.3	2975.9	2905.2	2852.9	2809.9	2569.3
35°	3067.3	3078.5	3131.7	3150.1	3119.1	3118.1	3109.4	3044.6	3011.7	3032.0	2736.8
37.5°	3205.3	3208.2	3253.7	3254.6	3245.4	3249.3	3258.5	3217.8	3227.0	3290.4	2954.6
40°	3328.2	3335.9	3368.8	3379.0	3395.0	3408.5	3454.5	3427.9	3499.0	3611.3	3225.6
42.5°	3419.2	3434.2	3486.9	3513.1	3564.8	3586.1	3651.0	3675.7	3818.9	3987.3	3547.9
45°	3496.1	3519.3	3604.0	3657.8	3745.4	3782.6	3875.5	3958.3	4180.4	4395.3	3887.2
47.5°	3579.4	3608.9	3714.9	3817.5	3936.5	3978.6	4147.5	4271.4	4566.1	4805.7	4207.0
50°	3701.8	3724.5	3828.1	3989.3	4137.8	4192.0	4425.8	4603.4	4958.2	5196.7	4484.4
52.5°	3872.6	3863.9	3951.5	4177.5	4376.9	4443.7	4722.9	4956.7	5355.5	5550.5	4718.6
55°	4044.4	4029.9	4091.4	4374.5	4655.7	4725.9	5050.1	5311.4	5733.5	5869.0	4898.1
57.5°	4235.6	4208.0	4259.8	4596.6	4973.2	5056.9	5416.5	5688.4	6105.1	6126.4	5012.4
60°	4432.6	4395.3	4453.4	4872.0	5376.3	5475.0	5845.2	6056.3	6455.5	6332.6	5049.1
62.5°	4604.9	4578.7	4668.3	5179.3	5830.7	5939.1	6266.3	6447.3	6801.1	6418.3	4916.5
65°	4755.4	4759.7	4914.6	5524.9	6337.4	6453.1	6749.3	6929.3	7073.0	6367.4	4606.3
67.5°	4934.9	4959.6	5223.8	5979.8	6975.3	7102.1	7452.0	7454.9	7225.0	6069.3	3995.6
70°	5196.7	5247.6	5649.2	6610.9	7882.2	8056.5	8326.5	7763.7	7011.6	5261.1	3143.8
72.5°	5429.0	5523.9	6101.7	7332.9	8987.6	9119.7	8838.0	7585.6	6119.7	3942.8	1958.6
74°	5334.7	5452.3	6184.0	7688.6	9403.8	9467.2	8665.3	7065.8	5102.4	2730.5	1138.3
75°	5131.4	5259.2	6064.0	7685.3	9351.0	9315.7	8248.1	6472.0	4202.2	1862.3	757.4
77.5°	4141.2	4276.3	5109.6	6586.7	7667.3	7634.0	6336.0	4341.6	1840.5	610.8	384.7
80°	2407.7	2510.8	3171.9	4182.9	5170.1	5230.6	4166.9	2148.3	724.0	343.1	260.9
82.5°	1069.5	1140.7	1532.2	2135.2	3120.1	3198.0	2182.2	1125.7	447.2	208.6	156.8
85°	701.7	754.5	930.2	1016.8	1485.8	1539.0	1068.1	876.4	295.2	114.7	115.2
87.5°	504.8	555.6	691.1	603.5	681.9	645.6	581.2	811.1	118.6	65.3	38.7
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°	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8	2420.8
2.5°	2398.0	2390.3	2372.8	2339.9	2321.5	2306.1	2280.4	2265.4	2258.6	2258.1	2261.1
5°	2338.5	2320.6	2275.6	2220.4	2176.4	2136.2	2086.3	2056.3	2035.0	2022.5	2025.8
7.5°	2269.3	2241.2	2170.6	2082.5	2011.8	1933.9	1856.9	1811.0	1775.2	1748.5	1753.4
10°	2221.9	2183.1	2080.1	1953.3	1835.7	1722.4	1616.4	1553.0	1502.7	1464.0	1466.9
12.5°	2205.9	2153.6	2010.8	1841.5	1676.4	1521.6	1383.2	1285.9	1234.1	1190.1	1193.4
15°	2208.3	2138.1	1952.8	1740.8	1533.2	1338.1	1170.2	1056.5	986.3	955.8	956.3
17.5°	2210.2	2120.2	1891.8	1632.9	1391.4	1166.8	984.4	869.2	802.9	774.8	775.3
20°	2203.9	2091.2	1816.3	1509.0	1243.3	1009.5	832.9	735.1	684.8	663.0	663.0
22.5°	2195.7	2056.8	1731.1	1384.6	1097.1	873.1	724.5	650.0	620.9	606.4	605.9
25°	2199.6	2031.2	1644.0	1256.8	962.6	764.2	652.4	603.0	583.7	574.5	574.0
27.5°	2220.4	2019.1	1563.7	1129.6	845.0	682.4	604.0	569.1	556.6	550.7	550.7
30°	2258.1	2019.1	1479.9	1021.2	747.2	621.9	566.7	543.0	534.3	530.4	530.4
32.5°	2324.0	2030.2	1399.1	913.7	669.3	574.5	535.7	519.8	513.0	511.1	511.1
35°	2437.2	2068.0	1320.2	812.1	606.4	535.7	506.2	497.0	492.2	491.7	493.2
37.5°	2596.4	2144.9	1246.2	737.1	561.9	504.3	481.5	474.3	471.4	473.8	475.7
40°	2796.8	2249.4	1178.9	669.3	528.0	479.1	458.8	454.0	452.5	455.9	458.8
42.5°	3038.8	2390.8	1123.8	620.4	501.9	457.8	439.4	433.6	432.2	436.0	439.9
45°	3300.6	2542.7	1085.0	584.1	481.5	441.9	422.5	416.2	413.3	415.2	419.6
47.5°	3538.7	2686.5	1069.5	558.5	462.2	428.3	407.5	399.7	394.9	393.9	397.3
50°	3739.5	2793.4	1076.8	543.0	446.7	413.3	393.0	384.3	377.0	372.6	375.1
52.5°	3885.7	2860.7	1083.6	536.2	434.6	396.8	377.0	368.8	359.1	351.8	351.8
55°	3991.7	2876.2	1068.6	530.9	425.4	378.9	359.1	351.4	341.7	333.4	332.5
57.5°	4033.3	2832.6	1012.9	523.2	419.1	362.0	340.2	334.4	326.2	316.5	316.0
60°	3977.2	2698.1	905.5	506.7	410.9	348.0	321.3	317.5	313.6	304.4	303.9
62.5°	3751.6	2402.9	766.6	473.3	394.4	333.0	303.9	305.9	306.3	300.1	299.1
65°	3342.7	1997.3	631.1	429.8	369.7	315.1	286.0	295.2	300.5	299.6	298.1
67.5°	2748.4	1554.5	534.8	383.8	337.3	290.4	266.7	277.3	281.7	285.1	284.1
70°	2039.9	1096.2	442.3	335.4	298.1	261.3	241.5	246.8	243.9	247.8	249.2
72.5°	1137.3	657.7	360.5	287.0	257.5	227.5	213.4	212.5	206.2	206.2	206.2
74°	682.4	482.5	317.0	257.0	232.8	205.2	193.1	188.7	182.9	183.4	182.9
75°	548.8	414.8	290.9	237.1	215.4	192.1	180.0	174.2	169.9	169.9	169.4
77.5°	346.5	315.1	234.2	188.7	172.3	158.3	150.0	142.3	142.3	141.8	141.3
80°	261.8	250.7	182.5	142.8	132.1	121.5	116.1	112.8	112.8	114.2	113.7
82.5°	179.5	188.7	128.2	99.7	94.4	86.6	85.7	86.1	84.7	82.8	82.3
85°	131.2	141.8	86.6	62.9	57.6	52.8	56.6	58.6	56.1	51.8	49.8
87.5°	50.3	92.9	46.5	26.1	24.2	20.8	24.2	25.2	27.1	21.3	21.8
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)