

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: P480806

Luminaire Tested: **IFLD-S-SA2D-730-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480806
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-730-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

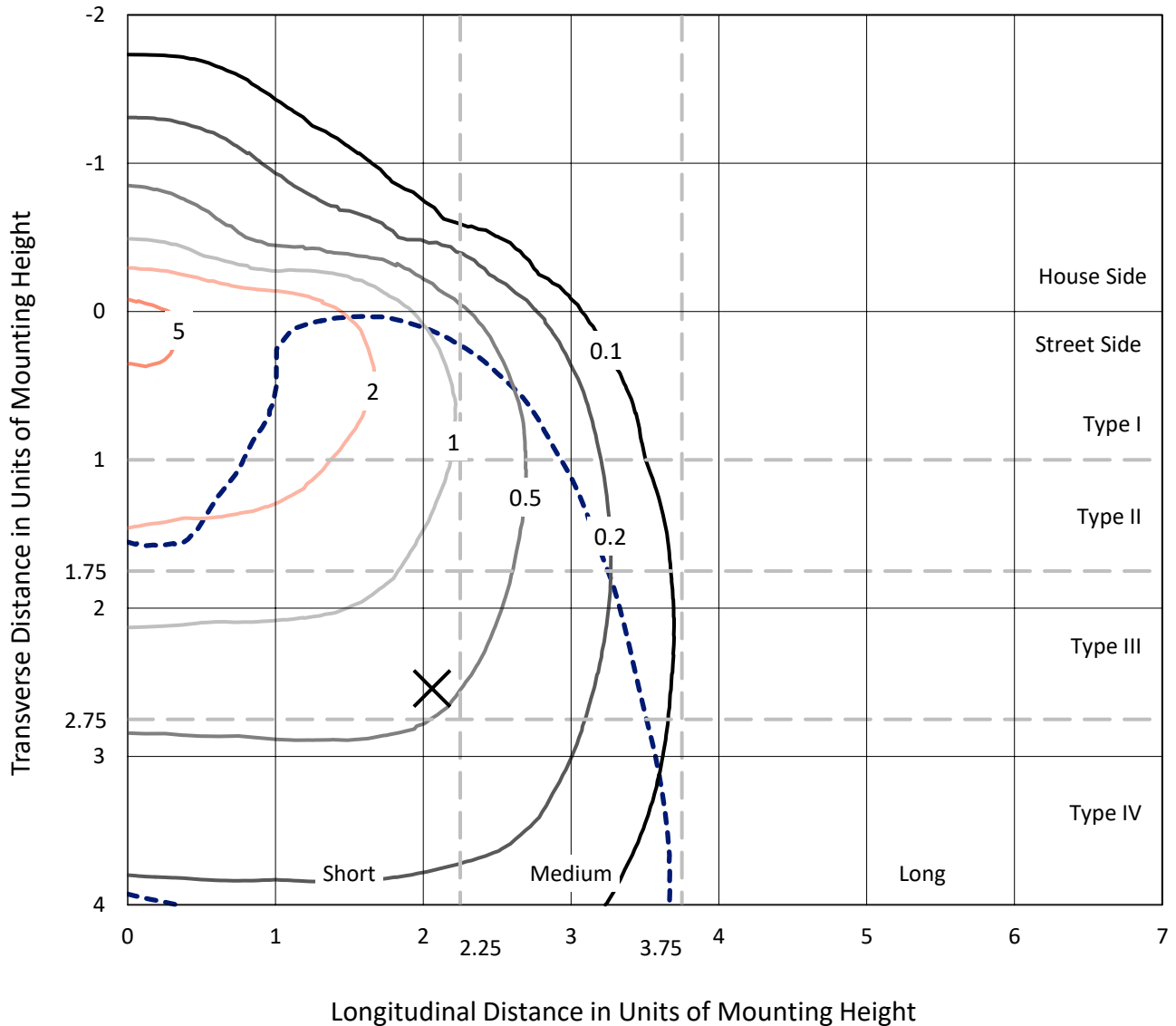
Lumens per Lamp: N/A
Luminaire Lumens: 13775.4 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 123.9
Input Voltage (V): 120
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

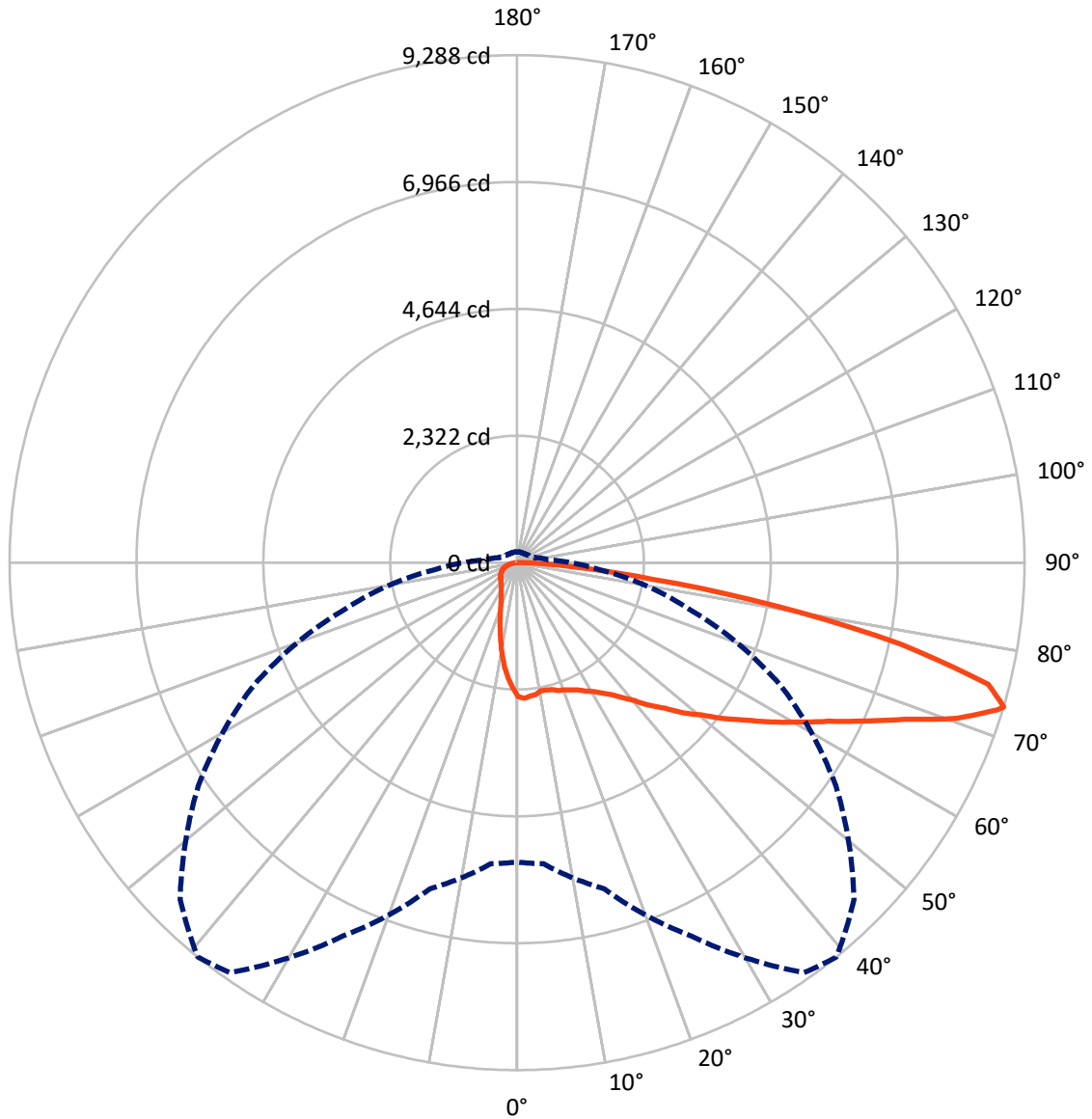
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical



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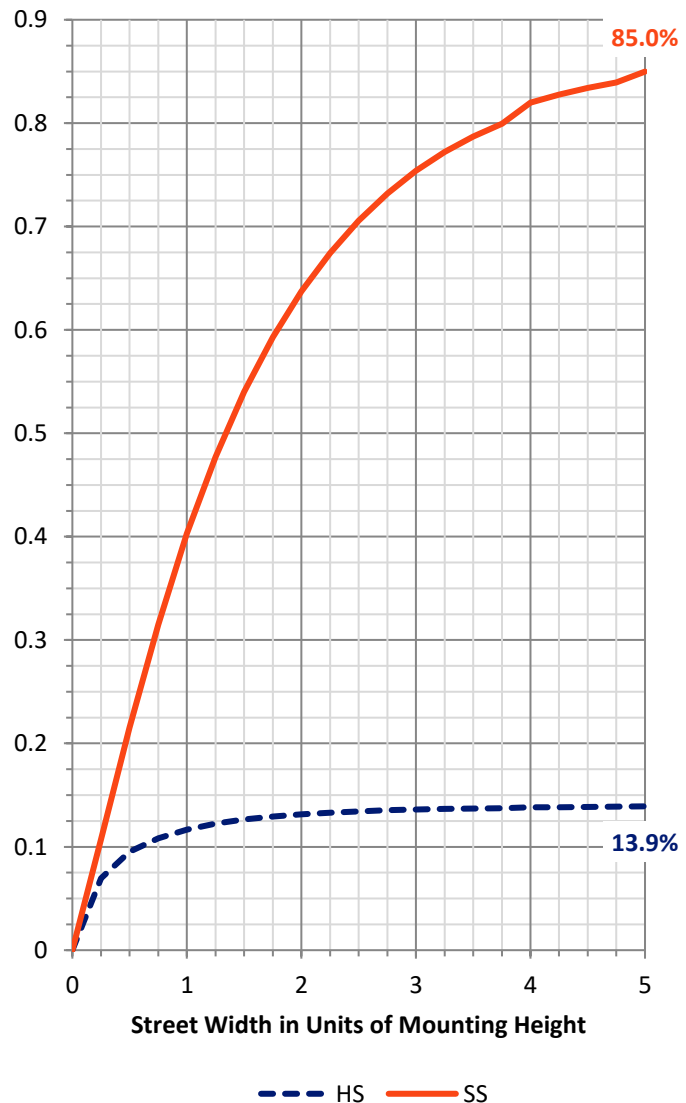
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1936.4	0.0	1936.4
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	11838.9	0.0	11838.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	13775.4	0.0	13775.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.9	1.5
10°-20°	541.1	3.9
20°-30°	826.9	6.0
30°-40°	1205.6	8.8
40°-50°	1821.9	13.2
50°-60°	2638.1	19.2
60°-70°	3351.9	24.3
70°-80°	2717.2	19.7
80°-90°	459.7	3.3
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°	13775.4	100.0
0°-180°	13775.4	100.0

Coefficient of Utilization



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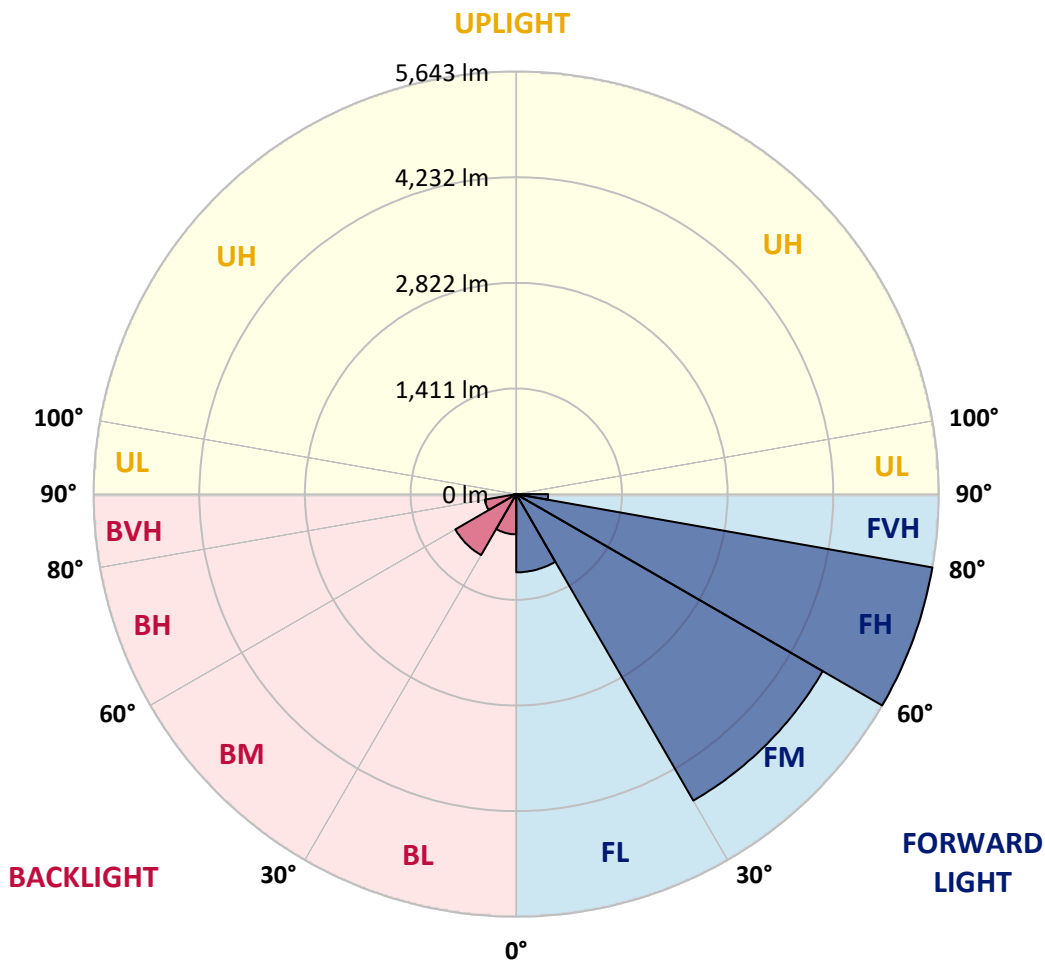
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1043.9	7.6			
FM (30°-60°)	4725.8	34.3			
FH (60°-80°)	5643.2	41.0			G3/7500
FVH (80°-90°)	426.0	3.1			G3/500
BL (0°-30°)	537.0	3.9	B2/1000		
BM (30°-60°)	939.8	6.8	B1/1000		
BH (60°-80°)	425.9	3.1	B1/500		G1/500
BVH (80°-90°)	33.7	0.2			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2452.1	2452.1	2452.1	2452.1	2452.1	2452.1	2452.1	2452.1	2452.1	2452.1	2452.1
2.5°	2510.7	2484.5	2489.1	2479.8	2489.1	2486.0	2481.4	2458.3	2481.4	2458.3	2452.1
5°	2476.8	2476.8	2492.2	2469.1	2472.1	2456.7	2472.1	2455.2	2439.8	2401.2	2390.5
7.5°	2466.0	2464.4	2466.0	2433.6	2449.0	2439.8	2424.4	2405.9	2375.0	2350.4	2314.9
10°	2392.0	2407.4	2390.5	2399.7	2412.0	2384.3	2382.7	2378.1	2364.2	2331.9	2310.3
12.5°	2351.9	2378.1	2387.4	2379.7	2390.5	2393.5	2384.3	2378.1	2361.2	2339.6	2277.9
15°	2368.9	2338.0	2364.2	2415.1	2404.3	2412.0	2413.6	2407.4	2399.7	2359.6	2319.6
17.5°	2373.5	2355.0	2410.5	2421.3	2435.1	2462.9	2444.4	2442.9	2413.6	2385.8	2327.3
20°	2384.3	2376.6	2421.3	2478.3	2479.8	2484.5	2493.7	2470.6	2455.2	2407.4	2318.0
22.5°	2424.4	2450.6	2492.2	2516.8	2530.7	2533.8	2533.8	2487.5	2470.6	2432.1	2361.2
25°	2544.6	2516.8	2575.4	2604.7	2584.6	2580.0	2569.2	2527.6	2509.1	2475.2	2381.2
27.5°	2632.4	2630.9	2664.8	2704.9	2650.9	2661.7	2623.2	2610.8	2569.2	2550.7	2416.7
30°	2752.6	2786.5	2785.0	2797.3	2726.4	2738.8	2689.4	2666.3	2643.2	2654.0	2521.5
32.5°	2906.8	2894.4	2914.5	2905.2	2834.3	2845.1	2786.5	2751.1	2758.8	2791.2	2664.8
35°	3005.4	2993.1	3000.8	3000.8	2979.2	2966.9	2942.2	2896.0	2933.0	2993.1	2825.1
37.5°	3111.7	3127.2	3171.9	3162.6	3134.9	3134.9	3131.8	3099.4	3147.2	3295.2	3080.9
40°	3205.8	3247.4	3275.1	3293.6	3326.0	3326.0	3352.2	3333.7	3420.0	3657.3	3393.8
42.5°	3304.4	3305.9	3457.0	3470.9	3543.3	3574.1	3594.2	3609.6	3771.4	4036.5	3728.2
45°	3430.8	3438.5	3571.0	3677.4	3789.9	3800.7	3876.2	3927.1	4125.9	4451.1	4092.0
47.5°	3597.2	3588.0	3729.8	3899.3	4039.6	4113.5	4204.5	4260.0	4505.0	4901.1	4489.6
50°	3816.1	3788.3	3870.0	4136.7	4301.6	4383.3	4545.1	4637.6	4924.2	5331.1	4762.4
52.5°	4082.7	4036.5	4101.2	4392.5	4577.5	4742.4	4896.5	4999.8	5298.8	5664.0	4964.3
55°	4364.8	4269.2	4287.7	4663.8	4930.4	5086.1	5297.2	5405.1	5710.3	5963.0	5166.2
57.5°	4643.7	4583.6	4546.6	4924.2	5351.2	5500.7	5694.9	5835.1	6094.0	6228.1	5337.3
60°	4878.0	4862.6	4802.5	5328.0	5796.6	5924.5	6127.9	6214.2	6410.0	6473.2	5340.4
62.5°	5070.7	5018.3	5113.8	5653.2	6249.7	6394.6	6618.1	6625.8	6764.5	6625.8	5183.2
65°	5221.7	5224.8	5377.4	6046.3	6773.7	6987.9	7168.3	7148.2	7058.8	6534.8	4811.7
67.5°	5358.9	5417.4	5640.9	6477.8	7447.2	7649.1	7849.5	7584.4	7139.0	6109.4	4085.8
70°	5466.7	5525.3	5996.9	7003.4	8241.0	8536.9	8581.6	7757.0	6770.6	5175.5	3082.5
72.5°	5454.4	5560.8	6198.8	7422.6	8945.3	9201.2	8840.5	7271.5	5640.9	3608.0	1798.6
73°	5480.6	5533.0	6181.9	7539.7	9159.5	9287.5	8720.3	7119.0	5320.3	3236.6	1521.2
75°	4975.1	5152.3	5875.2	7348.6	8929.9	8906.8	8029.8	5932.2	3782.2	1700.0	736.7
77.5°	3680.5	3793.0	4629.9	6043.2	7330.1	7182.1	6057.0	3791.4	1795.5	630.4	397.6
80°	1798.6	1886.5	2453.6	3489.3	4793.2	4805.6	3759.1	1972.8	769.1	356.0	271.3
82.5°	898.5	950.9	1179.0	1533.5	2358.1	2470.6	1906.5	1122.0	476.2	201.9	154.1
85°	587.2	624.2	725.9	750.6	1000.3	1055.7	887.7	875.4	309.8	109.4	124.8
87.5°	389.9	396.1	445.4	379.1	400.7	385.3	428.5	551.8	90.9	46.2	33.9
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°	2452.1	2452.1	2452.1	2452.1	2452.1	2452.1	2452.1	2452.1	2452.1	2452.1	2452.1
2.5°	2444.4	2422.8	2399.7	2367.3	2344.2	2308.8	2276.4	2262.5	2259.4	2261.0	2245.6
5°	2381.2	2350.4	2304.1	2237.9	2199.3	2140.8	2091.5	2065.3	2037.5	2042.1	2029.8
7.5°	2293.4	2259.4	2188.5	2111.5	2015.9	1932.7	1886.5	1821.7	1784.7	1757.0	1772.4
10°	2265.6	2207.0	2100.7	1994.4	1846.4	1737.0	1630.6	1556.6	1505.8	1456.5	1478.0
12.5°	2251.7	2193.2	2045.2	1888.0	1696.9	1530.4	1380.9	1290.0	1217.6	1174.4	1191.4
15°	2239.4	2167.0	1992.8	1770.9	1556.6	1337.8	1169.8	1049.6	980.2	938.6	943.2
17.5°	2256.4	2153.1	1915.8	1656.8	1402.5	1168.3	981.8	856.9	786.0	759.8	753.7
20°	2239.4	2137.7	1840.2	1542.8	1248.4	1006.4	827.6	724.4	675.1	653.5	648.9
22.5°	2245.6	2100.7	1761.6	1416.4	1105.1	870.8	724.4	645.8	607.2	596.5	599.5
25°	2274.9	2079.1	1683.0	1277.7	963.3	770.6	658.1	598.0	570.3	559.5	562.5
27.5°	2296.4	2097.6	1612.1	1146.7	843.1	681.2	602.6	562.5	544.1	536.3	534.8
30°	2350.4	2108.4	1542.8	1029.5	744.4	622.7	564.1	531.7	519.4	514.8	513.2
32.5°	2430.5	2128.4	1462.6	921.7	672.0	567.2	533.3	505.5	502.4	497.8	499.4
35°	2561.5	2197.8	1373.2	829.2	602.6	530.2	500.9	482.4	482.4	482.4	487.0
37.5°	2749.6	2294.9	1293.1	741.3	557.9	497.8	473.2	467.0	463.9	468.5	471.6
40°	2991.5	2412.0	1228.4	672.0	519.4	476.2	454.7	451.6	450.0	448.5	451.6
42.5°	3256.6	2561.5	1172.9	618.0	491.7	453.1	437.7	434.6	428.5	431.5	436.2
45°	3520.2	2746.5	1123.6	574.9	473.2	440.8	419.2	417.7	414.6	413.1	420.8
47.5°	3813.0	2928.3	1108.1	548.7	459.3	422.3	406.9	405.3	396.1	394.6	400.7
50°	4041.1	3062.4	1125.1	536.3	439.3	408.4	397.6	389.9	382.2	374.5	374.5
52.5°	4198.3	3154.9	1137.4	527.1	428.5	389.9	376.1	373.0	365.3	357.6	354.5
55°	4340.1	3210.4	1140.5	528.6	417.7	368.4	359.1	357.6	352.9	340.6	337.5
57.5°	4387.9	3187.3	1078.9	514.8	411.5	354.5	342.2	345.2	339.1	328.3	326.7
60°	4383.3	3027.0	938.6	496.3	397.6	339.1	323.7	332.9	332.9	320.6	319.0
62.5°	4116.6	2657.1	767.5	460.8	382.2	323.7	306.7	320.6	325.2	317.5	316.0
65°	3563.3	2163.9	641.2	425.4	359.1	306.7	289.8	305.2	312.9	309.8	308.2
67.5°	2948.4	1655.3	533.3	379.1	329.8	283.6	269.7	280.5	285.1	286.7	288.2
70°	2083.7	1102.0	445.4	328.3	289.8	258.9	243.5	245.1	243.5	248.1	248.1
72.5°	1132.8	635.0	362.2	279.0	249.7	225.0	214.2	206.5	206.5	205.0	205.0
73°	969.4	570.3	345.2	271.3	238.9	218.9	206.5	200.4	200.4	198.8	197.3
75°	544.1	417.7	295.9	232.7	206.5	191.1	181.9	172.6	171.1	171.1	171.1
77.5°	357.6	325.2	235.8	186.5	166.5	152.6	149.5	140.3	140.3	140.3	138.7
80°	268.2	255.8	181.9	141.8	127.9	117.1	114.1	107.9	106.3	100.2	101.7
82.5°	178.8	201.9	132.5	100.2	86.3	80.1	80.1	78.6	74.0	66.3	66.3
85°	141.8	164.9	95.6	61.6	50.9	43.2	44.7	43.2	41.6	33.9	32.4
87.5°	26.2	66.3	27.7	17.0	12.3	7.7	7.7	4.6	3.1	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)