

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: P476864

Luminaire Tested: **IFLD-S-SA2A-727-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476864
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-727-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

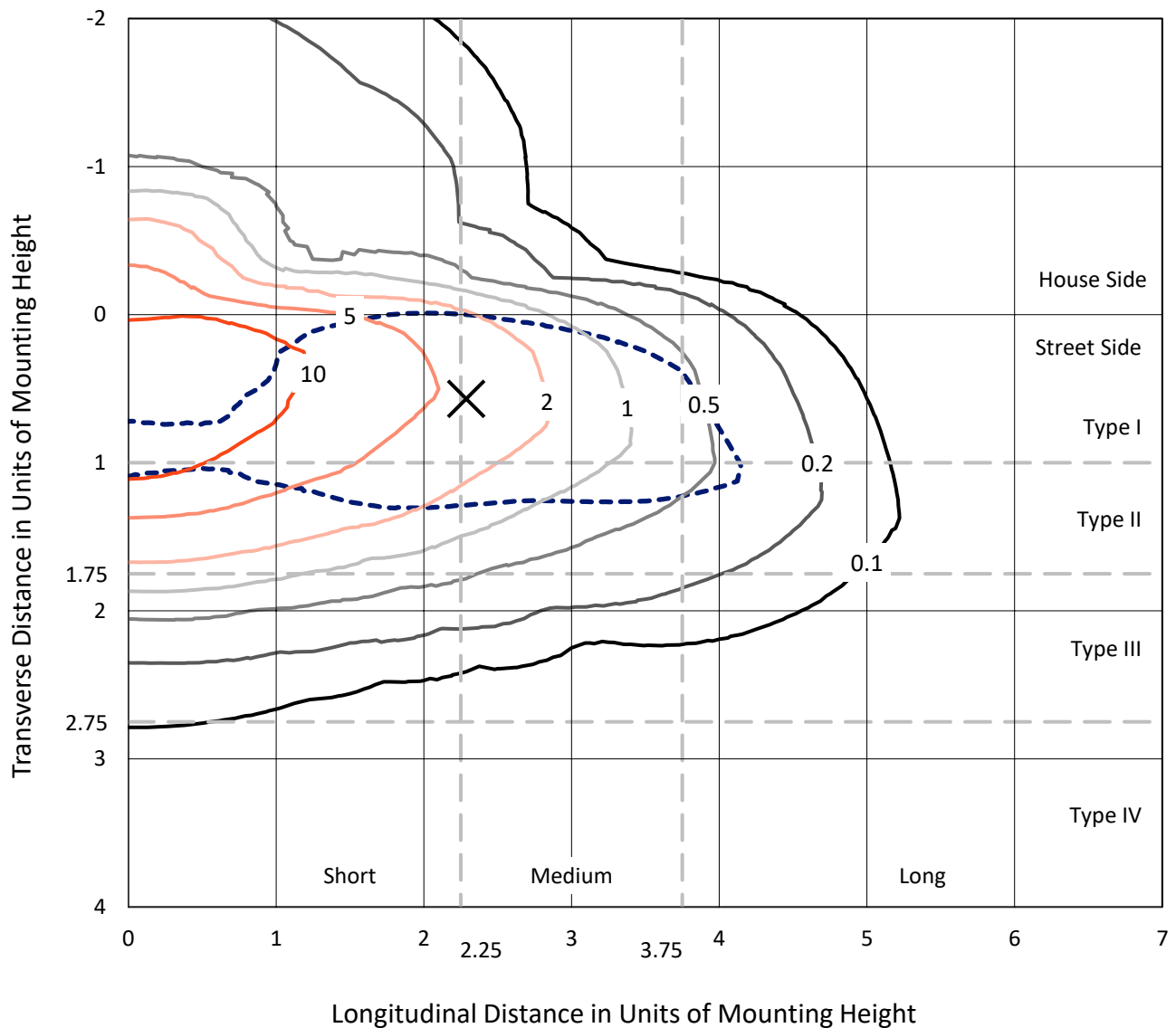
Lumens per Lamp: N/A
Luminaire Lumens: 7764.3 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8
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

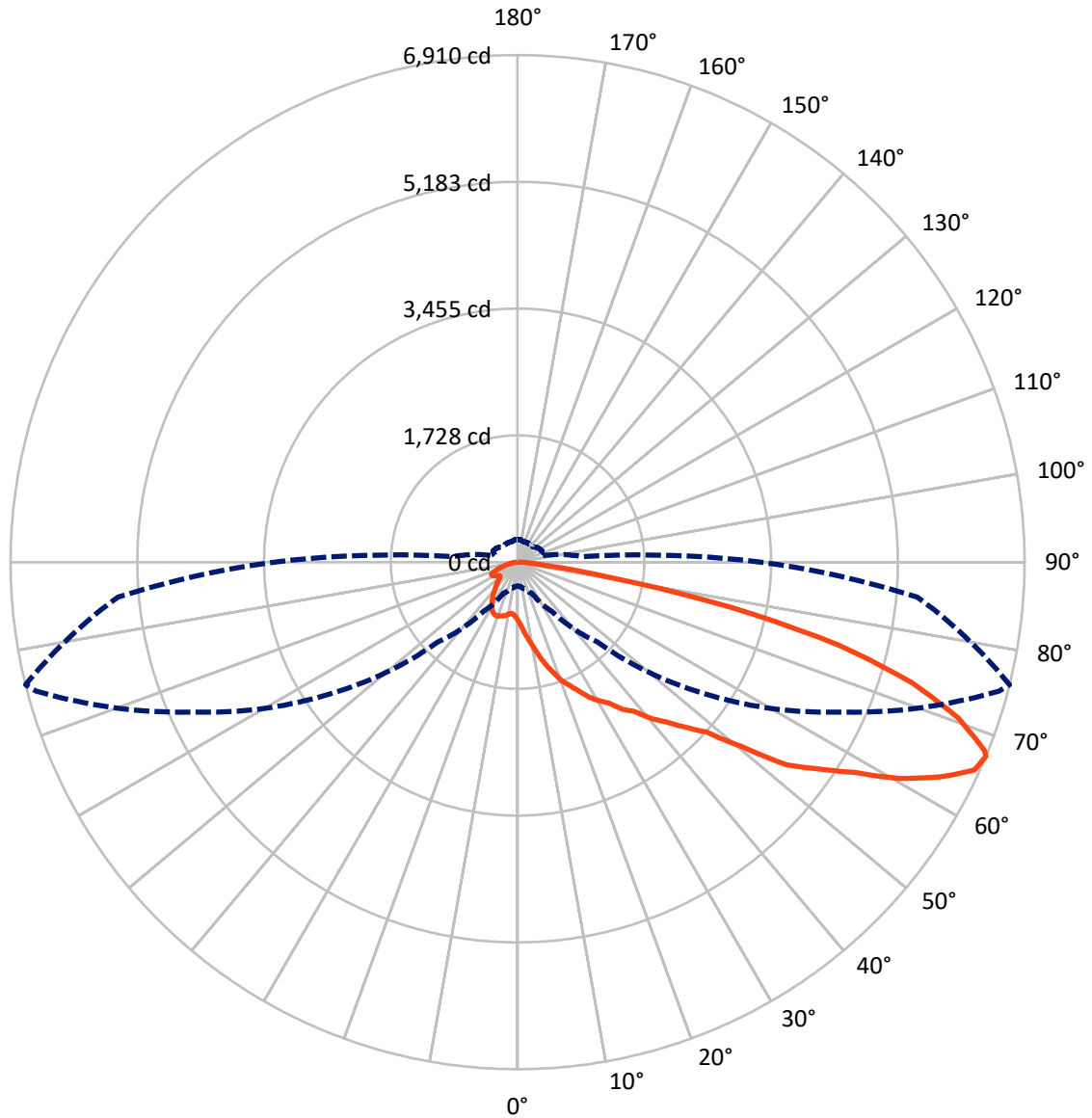
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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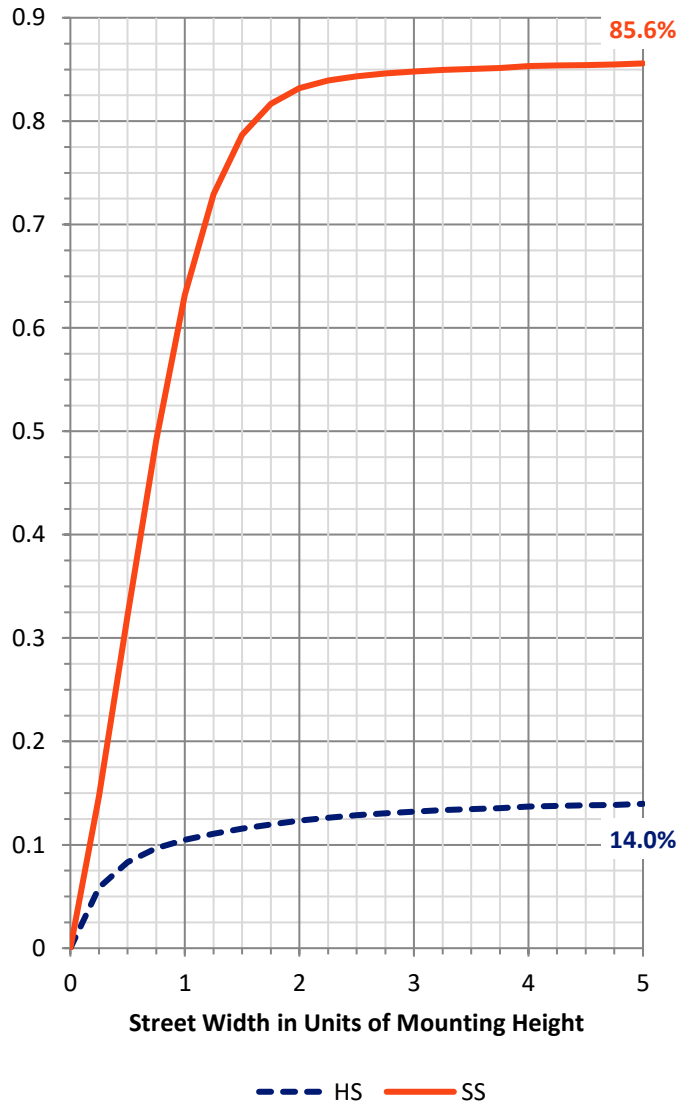
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1104.6	0.0	1104.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	6659.7	0.0	6659.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	7764.3	0.0	7764.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	1.2
10°-20°	345.2	4.4
20°-30°	641.8	8.3
30°-40°	1017.3	13.1
40°-50°	1407.1	18.1
50°-60°	1730.8	22.3
60°-70°	1610.6	20.7
70°-80°	808.2	10.4
80°-90°	111.4	1.4
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°	7764.3	100.0
0°-180°	7764.3	100.0

Coefficient of Utilization



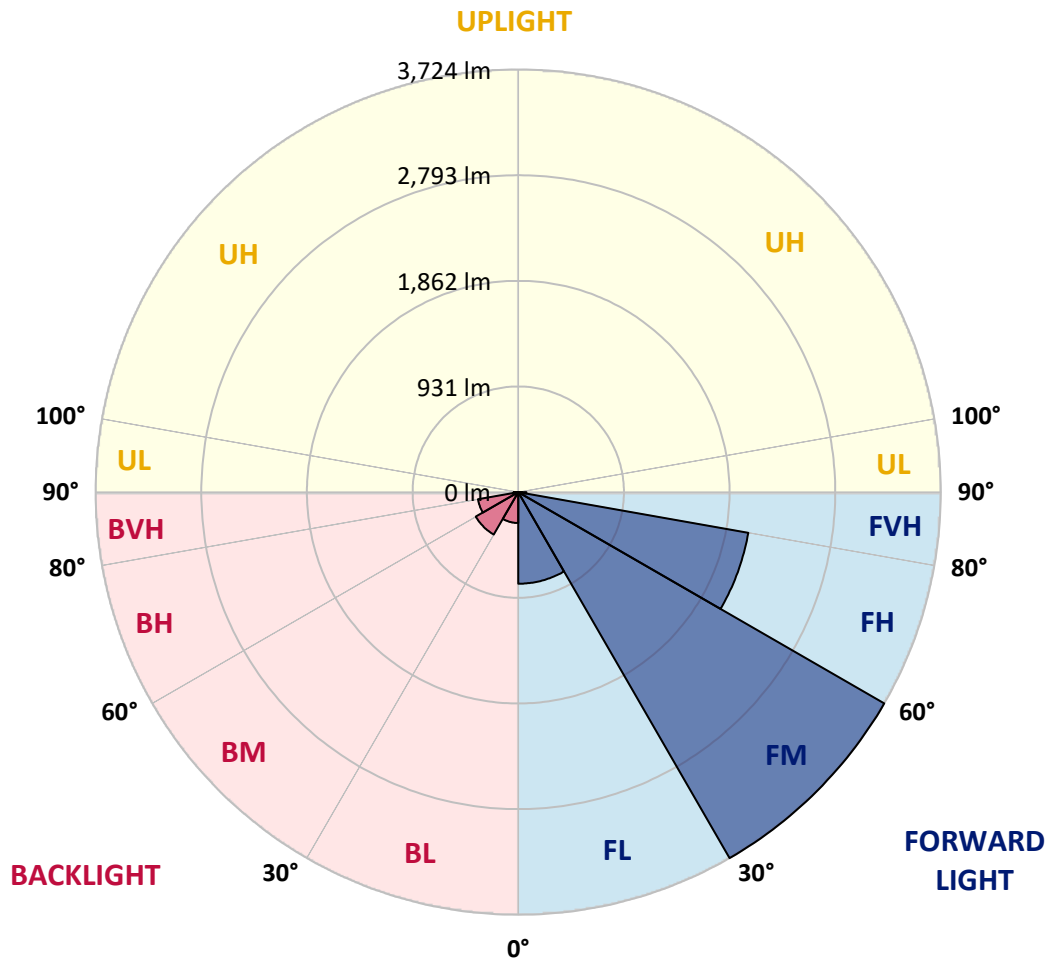
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	807.0	10.4			
FM (30°-60°)	3723.5	48.0			
FH (60°-80°)	2058.2	26.5			G2/5000
FVH (80°-90°)	71.0	0.9			G1/100
BL (0°-30°)	272.0	3.5	B1/500		
BM (30°-60°)	431.6	5.6	B1/1000		
BH (60°-80°)	360.5	4.6	B1/500		G1/500
BVH (80°-90°)	40.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	794.6	794.6	794.6	794.6	794.6	794.6	794.6	794.6	794.6	794.6	794.6
2.5°	1102.5	1089.2	1075.9	1047.6	1037.9	1011.3	962.7	908.7	864.5	858.3	827.3
5°	1367.9	1348.4	1344.0	1328.1	1277.7	1226.3	1146.7	1060.0	952.1	960.0	853.8
7.5°	1567.0	1555.5	1531.6	1516.6	1486.5	1418.3	1336.1	1221.0	1083.9	1057.3	913.1
10°	1717.4	1701.5	1700.6	1687.3	1671.4	1601.5	1538.7	1383.8	1207.8	1171.5	985.7
12.5°	1793.5	1790.9	1837.7	1837.7	1831.6	1802.4	1694.4	1552.8	1325.4	1313.1	1069.7
15°	1875.8	1853.7	1894.4	1925.3	1941.3	1956.3	1866.9	1717.4	1475.9	1452.0	1160.0
17.5°	1875.8	1874.0	1914.7	1966.0	2049.2	2068.7	2020.0	1868.7	1600.6	1582.9	1259.1
20°	1843.9	1869.6	1897.9	1966.9	2057.2	2135.9	2150.1	2023.6	1738.6	1724.5	1371.5
22.5°	1992.6	1967.8	1997.0	2023.6	2093.5	2212.9	2251.8	2159.8	1883.8	1829.8	1473.2
25°	2242.1	2225.3	2204.1	2165.1	2194.3	2246.5	2305.8	2260.7	2007.6	1947.5	1571.4
27.5°	2485.4	2486.3	2440.3	2355.4	2292.5	2303.2	2373.1	2349.2	2112.0	2085.5	1638.7
30°	2831.4	2810.1	2758.8	2643.8	2520.8	2419.9	2408.4	2431.5	2244.8	2193.4	1735.1
32.5°	3090.6	3095.1	3022.5	2857.0	2688.9	2606.6	2505.8	2515.5	2328.8	2290.8	1812.1
35°	3300.3	3295.0	3243.7	3106.6	2907.5	2808.4	2672.1	2616.4	2524.4	2464.2	1929.8
37.5°	3526.8	3483.5	3400.3	3245.5	3118.1	2980.9	2848.2	2722.6	2654.4	2581.9	2030.6
40°	3618.0	3618.0	3506.5	3435.7	3284.4	3180.9	3095.1	2862.4	2812.8	2798.6	2159.8
42.5°	3553.4	3593.2	3547.2	3466.7	3404.7	3273.8	3250.8	3007.5	3008.3	2980.0	2314.7
45°	3547.2	3492.3	3454.3	3474.6	3445.4	3438.4	3496.8	3208.3	3213.6	3210.1	2522.6
47.5°	3369.3	3344.6	3401.2	3434.8	3458.7	3568.4	3736.5	3448.1	3486.1	3459.6	2762.4
50°	3192.4	3188.0	3223.4	3345.5	3449.0	3629.5	3964.8	3817.9	3942.7	3940.9	3196.8
52.5°	2707.5	2754.4	2893.3	3151.7	3407.4	3712.7	4137.4	4290.4	4528.4	4593.0	3556.9
55°	2243.9	2219.1	2424.4	2799.5	3226.0	3745.4	4330.2	4574.5	4924.8	4971.7	3926.8
57.5°	1745.7	1791.7	1953.7	2313.8	2850.9	3583.5	4471.8	4854.9	5372.6	5408.8	4355.9
60°	1302.4	1308.6	1486.5	1776.7	2351.8	3218.0	4517.8	5142.5	5885.7	5989.3	4805.4
62.5°	819.3	856.5	991.9	1277.7	1770.5	2706.6	4311.7	5316.8	6423.7	6451.1	5258.4
65°	441.5	465.4	567.2	746.8	1237.0	2047.4	3764.9	5212.4	6676.8	6839.6	5460.1
67°	326.5	330.9	377.8	476.9	827.3	1541.3	3139.3	4834.6	6791.8	6910.3	5468.1
67.5°	306.1	312.3	349.5	428.2	733.5	1419.2	2975.6	4700.1	6740.5	6867.9	5406.2
70°	261.9	263.7	272.5	294.6	411.4	853.8	2026.2	3851.6	6247.6	6369.7	4971.7
72.5°	232.7	234.5	238.0	242.4	278.7	493.7	1232.5	2964.1	5430.1	5624.7	4289.5
75°	204.4	210.6	212.4	208.8	237.1	321.2	655.6	2178.4	4429.3	4524.0	3335.7
77.5°	173.4	176.1	179.6	183.2	211.5	239.8	315.0	1470.6	3040.2	2982.7	1804.1
80°	146.0	146.9	149.5	152.2	183.2	183.2	178.7	794.6	1328.1	1269.7	609.6
82.5°	104.4	110.6	116.8	123.9	152.2	123.0	116.8	353.9	420.3	399.9	206.2
85°	40.7	49.5	77.0	84.9	96.4	66.4	77.9	153.1	175.2	173.4	77.0
87.5°	7.1	8.0	21.2	32.7	35.4	23.0	37.2	54.9	65.5	70.8	28.3
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°	794.6	794.6	794.6	794.6	794.6	794.6	794.6	794.6	794.6	794.6	794.6
2.5°	801.6	774.2	741.5	708.7	687.5	653.9	651.2	630.9	628.2	621.1	624.7
5°	807.8	775.1	708.7	656.5	632.6	613.2	617.6	608.7	606.1	601.7	594.6
7.5°	856.5	791.9	692.8	647.7	630.0	621.1	621.1	610.5	602.6	607.9	613.2
10°	888.3	799.9	705.2	660.1	645.9	626.4	633.5	620.3	624.7	614.1	614.1
12.5°	939.7	845.0	730.9	678.6	655.6	637.9	645.0	630.0	626.4	627.3	624.7
15°	1008.7	875.1	742.4	689.3	673.3	651.2	645.9	632.6	619.4	614.9	620.3
17.5°	1073.3	912.2	750.3	695.5	669.8	645.0	638.8	622.0	617.6	604.3	593.7
20°	1150.2	956.5	760.9	700.8	656.5	631.8	615.8	599.0	584.0	576.0	579.5
22.5°	1201.6	979.5	766.2	690.1	637.1	614.1	580.4	568.9	547.7	538.8	531.8
25°	1285.6	1007.8	753.0	661.0	602.6	565.4	535.3	519.4	504.3	492.8	489.3
27.5°	1306.9	1029.0	722.0	611.4	547.7	508.8	483.1	463.6	453.9	436.2	432.7
30°	1368.8	1007.8	676.0	551.2	495.5	455.7	430.0	415.9	392.9	388.4	378.7
32.5°	1408.6	1014.0	617.6	492.8	435.3	399.9	383.1	369.0	362.8	341.5	336.2
35°	1475.0	992.8	558.3	438.9	385.8	358.3	344.2	339.8	319.4	309.7	300.8
37.5°	1517.4	980.4	499.0	377.8	331.8	320.3	324.7	306.1	281.4	262.8	256.6
40°	1591.8	975.9	431.8	327.4	294.6	292.0	306.1	270.8	225.6	209.7	200.9
42.5°	1698.8	945.9	379.6	282.3	265.4	276.9	279.6	225.6	200.0	186.7	180.5
45°	1801.5	952.1	328.3	233.6	230.9	247.7	241.6	191.1	176.1	166.3	171.7
47.5°	1998.8	983.0	277.8	194.7	207.9	223.9	187.6	170.8	156.6	149.5	150.4
50°	2304.0	1013.1	233.6	177.8	196.4	202.6	161.0	154.8	154.0	139.8	138.9
52.5°	2487.2	1001.6	225.6	199.1	210.6	202.6	175.2	170.8	163.7	157.5	150.4
55°	2778.3	1035.2	242.4	232.7	238.9	194.7	196.4	194.7	189.3	173.4	177.8
57.5°	3010.1	1057.3	264.6	260.1	256.6	202.6	205.3	206.2	202.6	195.5	201.7
60°	3328.6	1101.6	287.6	288.4	289.3	220.3	224.7	230.0	229.2	226.5	228.3
62.5°	3524.2	1081.2	313.2	327.4	323.0	256.6	255.7	259.2	259.2	263.7	266.3
65°	3495.0	1006.0	326.5	361.9	338.9	283.1	283.1	284.9	285.8	294.6	295.5
67°	3319.8	871.5	319.4	367.2	338.9	293.8	293.8	295.5	289.3	312.3	305.3
67.5°	3238.4	831.7	313.2	362.8	336.2	292.9	292.9	293.8	288.4	310.6	303.5
70°	2816.3	617.6	269.9	321.2	311.5	284.9	284.9	279.6	275.2	304.4	298.2
72.5°	2404.0	448.6	216.8	273.4	281.4	274.3	276.1	262.8	250.4	270.8	265.4
75°	1841.3	330.0	169.0	210.6	238.0	256.6	268.1	234.5	218.5	223.9	214.1
77.5°	1027.3	215.0	133.6	155.7	181.4	238.9	257.5	211.5	178.7	172.5	172.5
80°	348.6	125.6	98.2	115.9	124.8	211.5	240.7	171.7	140.7	134.5	130.1
82.5°	131.8	77.0	67.2	79.6	79.6	167.2	196.4	131.8	106.2	137.1	139.8
85°	60.2	46.0	44.2	46.0	46.0	102.6	138.9	85.8	95.6	82.3	72.6
87.5°	23.9	22.1	20.4	19.5	15.9	17.7	47.8	23.0	43.4	11.5	10.6
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)