

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: P477137

Luminaire Tested: **IFLD-S-SA2A-830-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477137
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-830-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

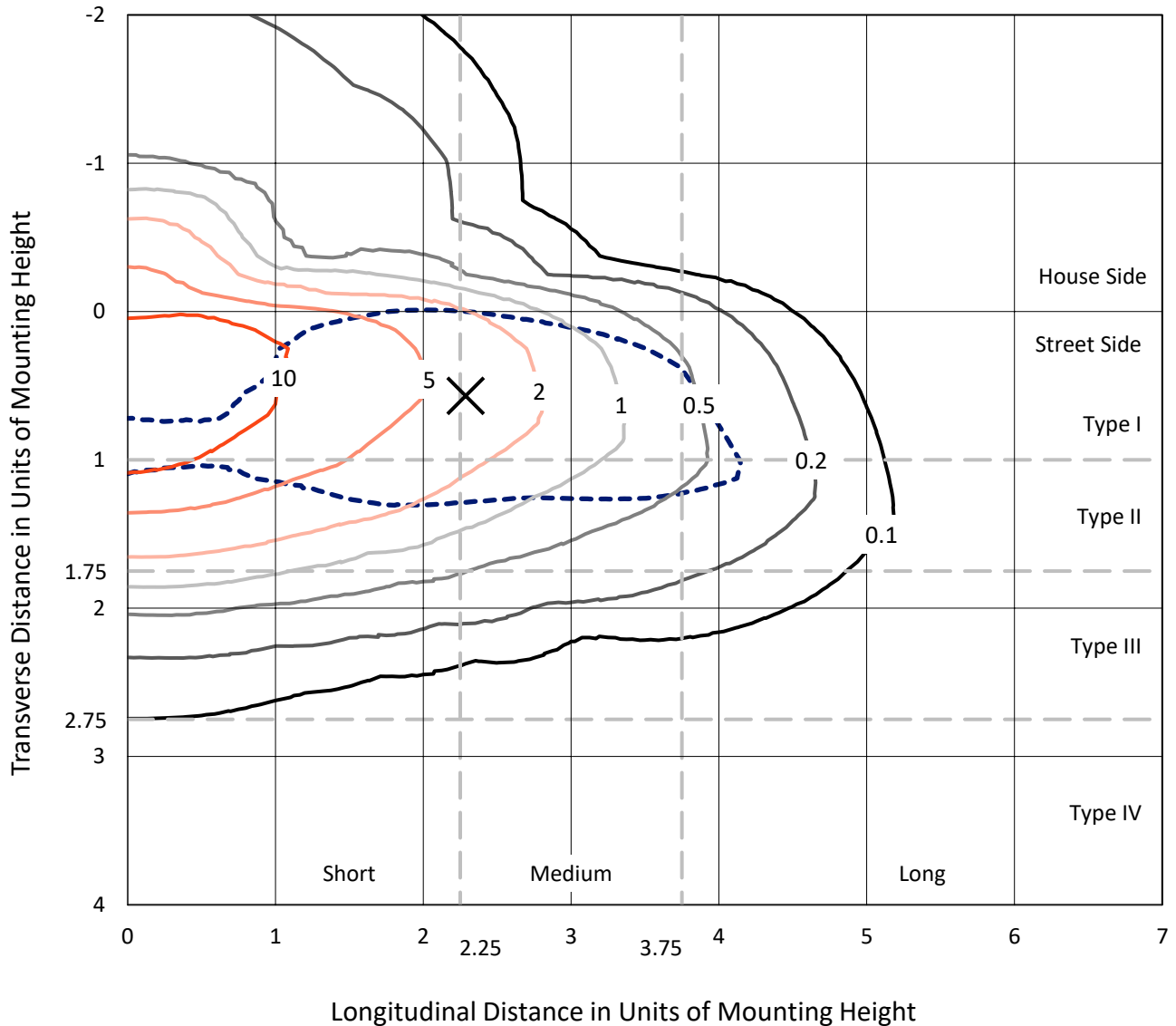
Lumens per Lamp: N/A
Luminaire Lumens: 7377.2 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

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

REPORT NUMBER: P477137
 CATALOG NUMBER: IFLD-S-SA2A-830-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

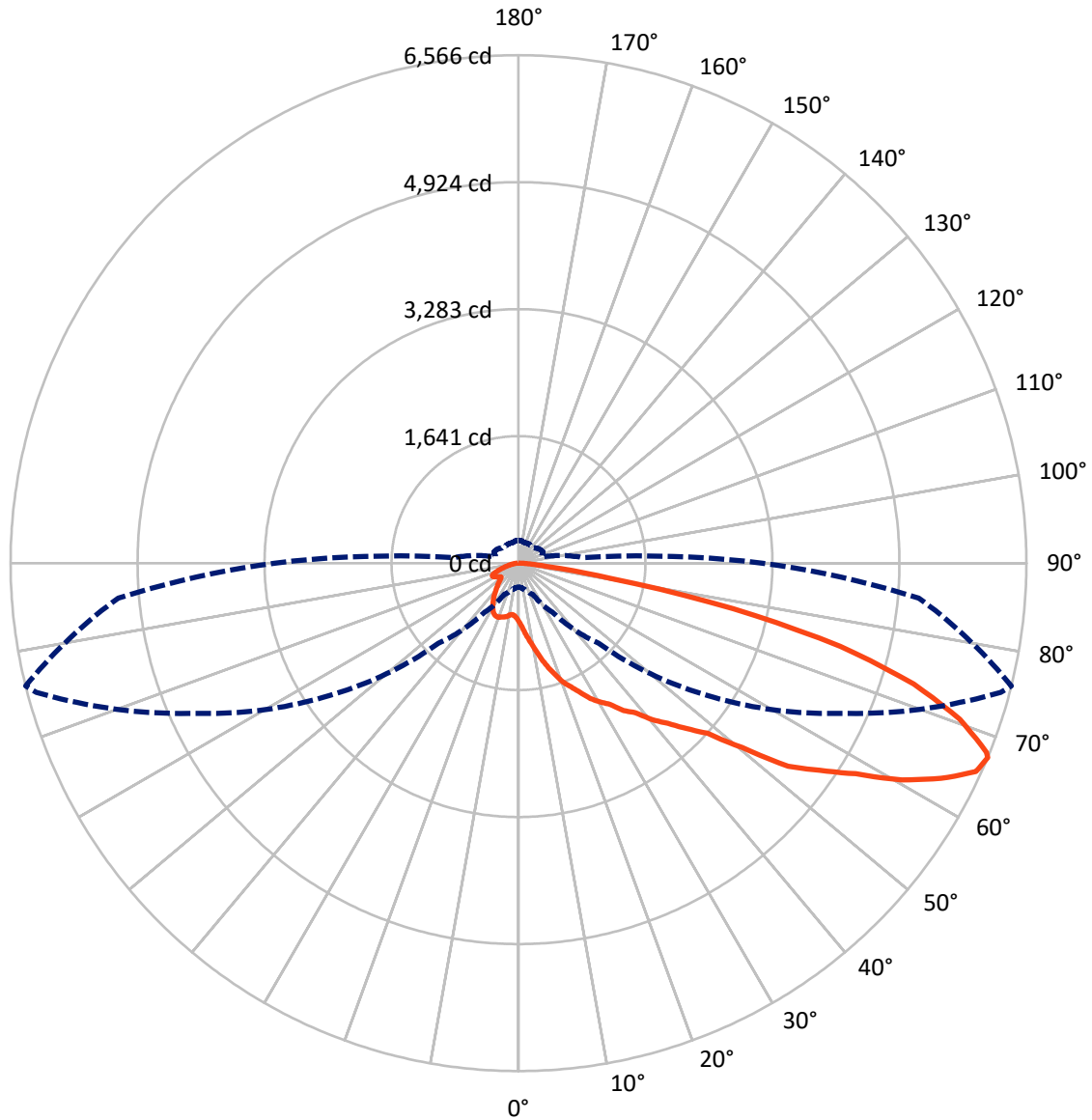
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.6 fc
 Type II - Medium - N/A

REPORT NUMBER: P477137
CATALOG NUMBER: IFLD-S-SA2A-830-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P477137
 CATALOG NUMBER: IFLD-S-SA2A-830-U-T2R

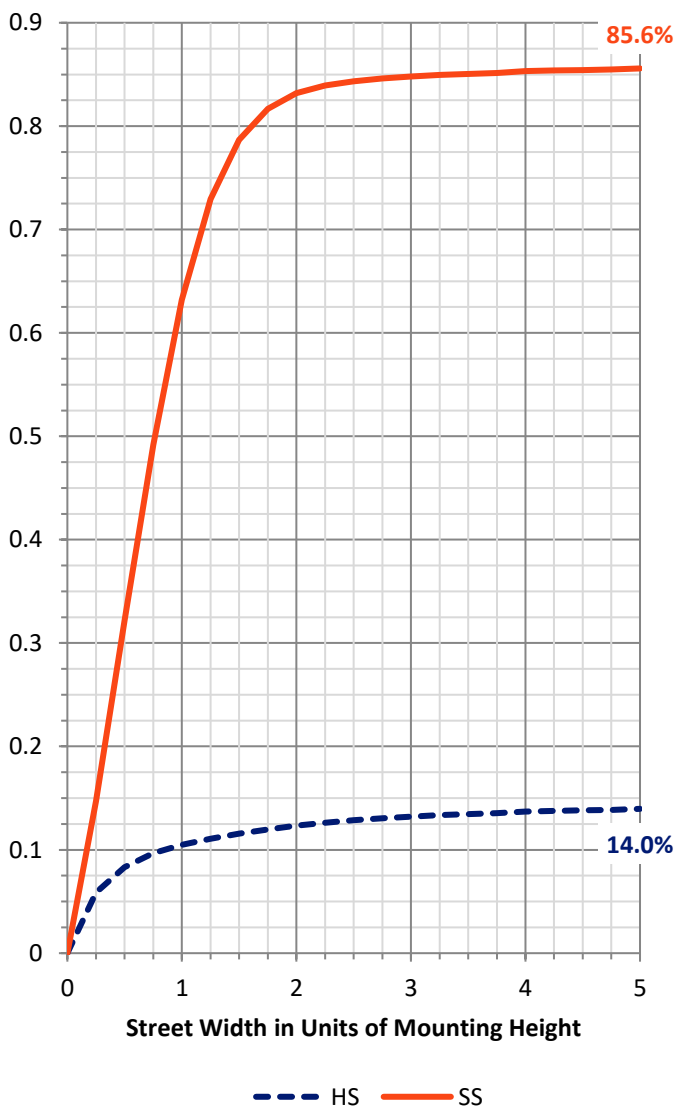
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1049.5	0.0	1049.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	6327.7	0.0	6327.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	7377.2	0.0	7377.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.4	1.2
10°-20°	328.0	4.4
20°-30°	609.8	8.3
30°-40°	966.6	13.1
40°-50°	1336.9	18.1
50°-60°	1644.5	22.3
60°-70°	1530.3	20.7
70°-80°	767.9	10.4
80°-90°	105.9	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°	7377.2	100.0
0°-180°	7377.2	100.0

Coefficient of Utilization



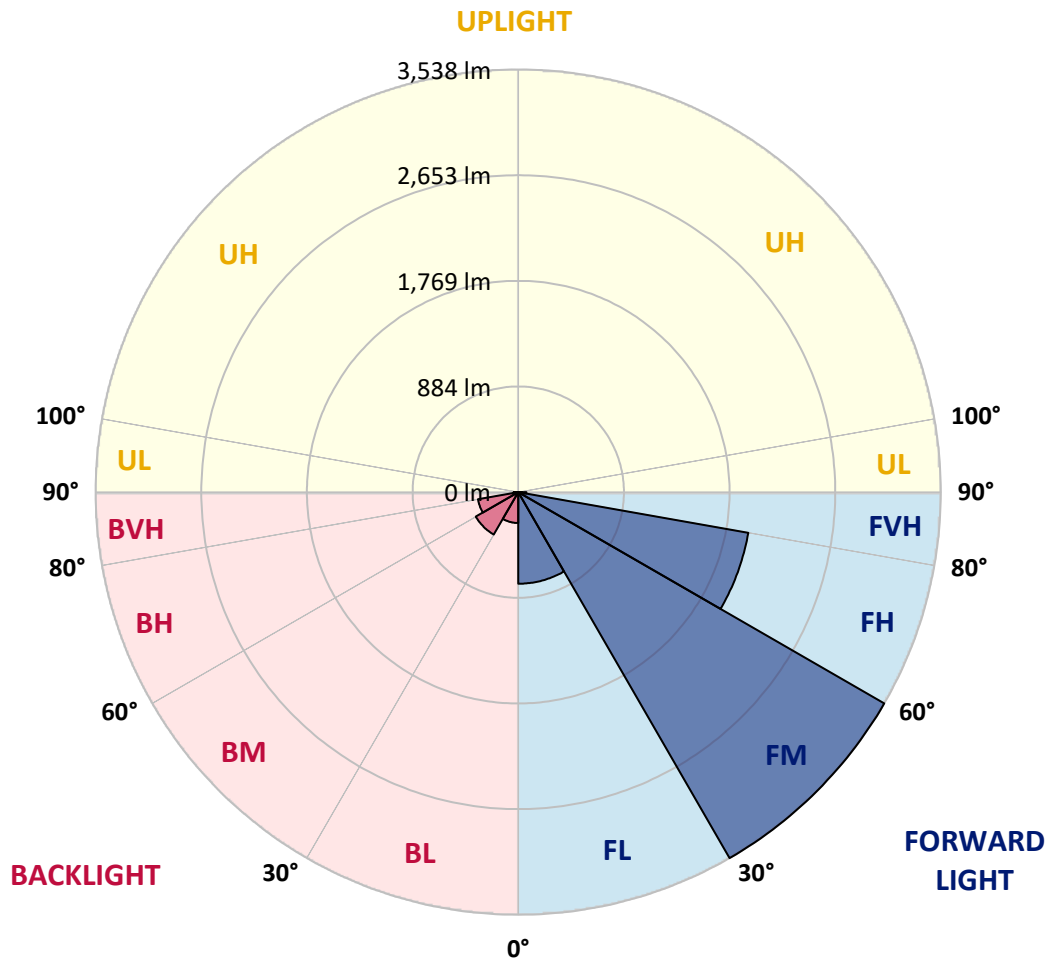
REPORT NUMBER: P477137
 CATALOG NUMBER: IFLD-S-SA2A-830-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	766.7	10.4			
FM (30°-60°)	3537.8	48.0			
FH (60°-80°)	1955.6	26.5			G2/5000
FVH (80°-90°)	67.5	0.9			G1/100
BL (0°-30°)	258.4	3.5	B1/500		
BM (30°-60°)	410.1	5.6	B1/1000		
BH (60°-80°)	342.5	4.6	B1/500		G1/500
BVH (80°-90°)	38.4	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





REPORT NUMBER: P477137
 CATALOG NUMBER: IFLD-S-SA2A-830-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	754.9	754.9	754.9	754.9	754.9	754.9	754.9	754.9	754.9	754.9	754.9
2.5°	1047.5	1034.9	1022.3	995.4	986.1	960.9	914.7	863.4	821.4	815.5	786.0
5°	1299.7	1281.2	1277.0	1261.9	1214.0	1165.2	1089.5	1007.1	904.6	912.1	811.3
7.5°	1488.9	1477.9	1455.2	1440.9	1412.4	1347.6	1269.4	1160.2	1029.8	1004.6	867.6
10°	1631.8	1616.6	1615.8	1603.2	1588.1	1521.6	1462.0	1314.8	1147.5	1113.1	936.5
12.5°	1704.1	1701.6	1746.1	1746.1	1740.2	1712.5	1609.9	1475.4	1259.4	1247.6	1016.4
15°	1782.3	1761.2	1799.9	1829.3	1844.5	1858.8	1773.9	1631.8	1402.3	1379.6	1102.1
17.5°	1782.3	1780.6	1819.3	1868.0	1947.0	1965.5	1919.3	1775.5	1520.8	1504.0	1196.3
20°	1752.0	1776.4	1803.3	1868.9	1954.6	2029.4	2042.9	1922.7	1652.0	1638.5	1303.1
22.5°	1893.2	1869.7	1897.4	1922.7	1989.1	2102.6	2139.6	2052.1	1789.8	1738.5	1399.7
25°	2130.3	2114.3	2094.2	2057.2	2084.9	2134.5	2190.8	2148.0	1907.5	1850.4	1493.1
27.5°	2361.5	2362.3	2318.6	2237.9	2178.2	2188.3	2254.7	2232.0	2006.7	1981.5	1557.0
30°	2690.2	2670.0	2621.3	2512.0	2395.1	2299.3	2288.4	2310.2	2132.8	2084.1	1648.6
32.5°	2936.5	2940.7	2871.8	2714.6	2554.9	2476.7	2380.8	2390.1	2212.7	2176.5	1721.7
35°	3135.8	3130.7	3082.0	2951.7	2762.5	2668.3	2538.9	2485.9	2398.5	2341.3	1833.5
37.5°	3351.0	3309.8	3230.8	3083.6	2962.6	2832.3	2706.2	2586.8	2522.1	2453.1	1929.4
40°	3437.6	3437.6	3331.6	3264.4	3120.6	3022.3	2940.7	2719.6	2672.5	2659.1	2052.1
42.5°	3376.2	3414.0	3370.3	3293.8	3235.0	3110.5	3088.7	2857.5	2858.3	2831.4	2199.2
45°	3370.3	3318.2	3282.0	3301.4	3273.6	3266.9	3322.4	3048.3	3053.4	3050.0	2396.8
47.5°	3201.3	3177.8	3231.6	3263.6	3286.3	3390.5	3550.2	3276.2	3312.3	3287.1	2624.6
50°	3033.2	3029.0	3062.6	3178.6	3277.0	3448.5	3767.1	3627.6	3746.1	3744.4	3037.4
52.5°	2572.5	2617.1	2749.1	2994.5	3237.5	3527.5	3931.1	4076.5	4302.6	4364.0	3379.6
55°	2132.0	2108.4	2303.5	2659.9	3065.2	3558.6	4114.3	4346.4	4679.3	4723.8	3731.0
57.5°	1658.7	1702.4	1856.2	2198.4	2708.7	3404.8	4248.8	4612.9	5104.7	5139.1	4138.7
60°	1237.5	1243.4	1412.4	1688.1	2234.6	3057.6	4292.6	4886.1	5592.3	5690.6	4565.8
62.5°	778.5	813.8	942.4	1214.0	1682.2	2571.7	4096.7	5051.7	6103.4	6129.5	4996.2
65°	419.5	442.2	538.9	709.5	1175.3	1945.4	3577.1	4952.5	6343.8	6498.5	5187.9
67°	310.2	314.4	359.0	453.1	786.0	1464.5	2982.8	4593.5	6453.1	6565.8	5195.5
67.5°	290.9	296.8	332.1	406.9	696.9	1348.5	2827.2	4465.7	6404.4	6525.4	5136.6
70°	248.8	250.5	258.9	279.9	390.9	811.3	1925.2	3659.5	5936.1	6052.1	4723.8
72.5°	221.1	222.8	226.1	230.3	264.8	469.1	1171.1	2816.3	5159.3	5344.3	4075.7
75°	194.2	200.1	201.8	198.4	225.3	305.2	623.0	2069.8	4208.5	4298.4	3169.4
77.5°	164.8	167.3	170.7	174.0	200.9	227.8	299.3	1397.2	2888.6	2834.0	1714.2
80°	138.7	139.6	142.1	144.6	174.0	174.0	169.8	754.9	1261.9	1206.4	579.2
82.5°	99.2	105.1	111.0	117.7	144.6	116.9	111.0	336.3	399.3	380.0	195.9
85°	38.7	47.1	73.1	80.7	91.6	63.1	74.0	145.4	166.5	164.8	73.1
87.5°	6.7	7.6	20.2	31.1	33.6	21.9	35.3	52.1	62.2	67.3	26.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P477137
 CATALOG NUMBER: IFLD-S-SA2A-830-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	754.9	754.9	754.9	754.9	754.9	754.9	754.9	754.9	754.9	754.9	754.9
2.5°	761.7	735.6	704.5	673.4	653.2	621.3	618.7	599.4	596.9	590.2	593.5
5°	767.5	736.4	673.4	623.8	601.1	582.6	586.8	578.4	575.9	571.7	564.9
7.5°	813.8	752.4	658.3	615.4	598.6	590.2	590.2	580.1	572.5	577.6	582.6
10°	844.1	760.0	670.0	627.2	613.7	595.2	601.9	589.3	593.5	583.4	583.4
12.5°	892.8	802.9	694.4	644.8	623.0	606.1	612.9	598.6	595.2	596.0	593.5
15°	958.4	831.4	705.3	654.9	639.8	618.7	613.7	601.1	588.5	584.3	589.3
17.5°	1019.8	866.8	712.9	660.8	636.4	612.9	607.0	591.0	586.8	574.2	564.1
20°	1092.9	908.8	723.0	665.8	623.8	600.3	585.1	569.1	554.9	547.3	550.7
22.5°	1141.7	930.6	728.0	655.7	605.3	583.4	551.5	540.6	520.4	512.0	505.3
25°	1221.5	957.5	715.4	628.0	572.5	537.2	508.6	493.5	479.2	468.3	464.9
27.5°	1241.7	977.7	686.0	580.9	520.4	483.4	459.0	440.5	431.3	414.5	411.1
30°	1300.5	957.5	642.3	523.7	470.8	433.0	408.6	395.1	373.3	369.1	359.8
32.5°	1338.4	963.4	586.8	468.3	413.6	380.0	364.0	350.6	344.7	324.5	319.5
35°	1401.4	943.3	530.5	417.0	366.5	340.5	327.0	322.8	303.5	294.2	285.8
37.5°	1441.8	931.5	474.1	359.0	315.3	304.3	308.5	290.9	267.3	249.7	243.8
40°	1512.4	927.3	410.3	311.1	279.9	277.4	290.9	257.3	214.4	199.2	190.8
42.5°	1614.1	898.7	360.7	268.2	252.2	263.1	265.7	214.4	190.0	177.4	171.5
45°	1711.6	904.6	311.9	221.9	219.4	235.4	229.5	181.6	167.3	158.0	163.1
47.5°	1899.1	934.0	264.0	185.0	197.6	212.7	178.2	162.3	148.8	142.1	142.9
50°	2189.2	962.6	221.9	169.0	186.6	192.5	153.0	147.1	146.3	132.8	132.0
52.5°	2363.2	951.7	214.4	189.2	200.1	192.5	166.5	162.3	155.5	149.6	142.9
55°	2639.8	983.6	230.3	221.1	227.0	185.0	186.6	185.0	179.9	164.8	169.0
57.5°	2860.0	1004.6	251.4	247.2	243.8	192.5	195.0	195.9	192.5	185.8	191.7
60°	3162.7	1046.7	273.2	274.1	274.9	209.3	213.5	218.6	217.7	215.2	216.9
62.5°	3348.5	1027.3	297.6	311.1	306.9	243.8	243.0	246.3	246.3	250.5	253.0
65°	3320.7	955.9	310.2	343.8	322.0	269.0	269.0	270.7	271.5	279.9	280.8
67°	3154.3	828.1	303.5	348.9	322.0	279.1	279.1	280.8	274.9	296.8	290.0
67.5°	3076.9	790.2	297.6	344.7	319.5	278.3	278.3	279.1	274.1	295.1	288.4
70°	2675.9	586.8	256.4	305.2	295.9	270.7	270.7	265.7	261.5	289.2	283.3
72.5°	2284.2	426.2	206.0	259.8	267.3	260.6	262.3	249.7	237.9	257.3	252.2
75°	1749.5	313.6	160.6	200.1	226.1	243.8	254.7	222.8	207.7	212.7	203.4
77.5°	976.0	204.3	126.9	148.0	172.3	227.0	244.6	200.9	169.8	163.9	163.9
80°	331.2	119.4	93.3	110.1	118.5	200.9	228.7	163.1	133.7	127.8	123.6
82.5°	125.3	73.1	63.9	75.7	75.7	158.9	186.6	125.3	100.9	130.3	132.8
85°	57.2	43.7	42.0	43.7	43.7	97.5	132.0	81.5	90.8	78.2	68.9
87.5°	22.7	21.0	19.3	18.5	15.1	16.8	45.4	21.9	41.2	10.9	10.1
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)