

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: P483887

Luminaire Tested: **IFLD-S-SA2D-727-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483887
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-727-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

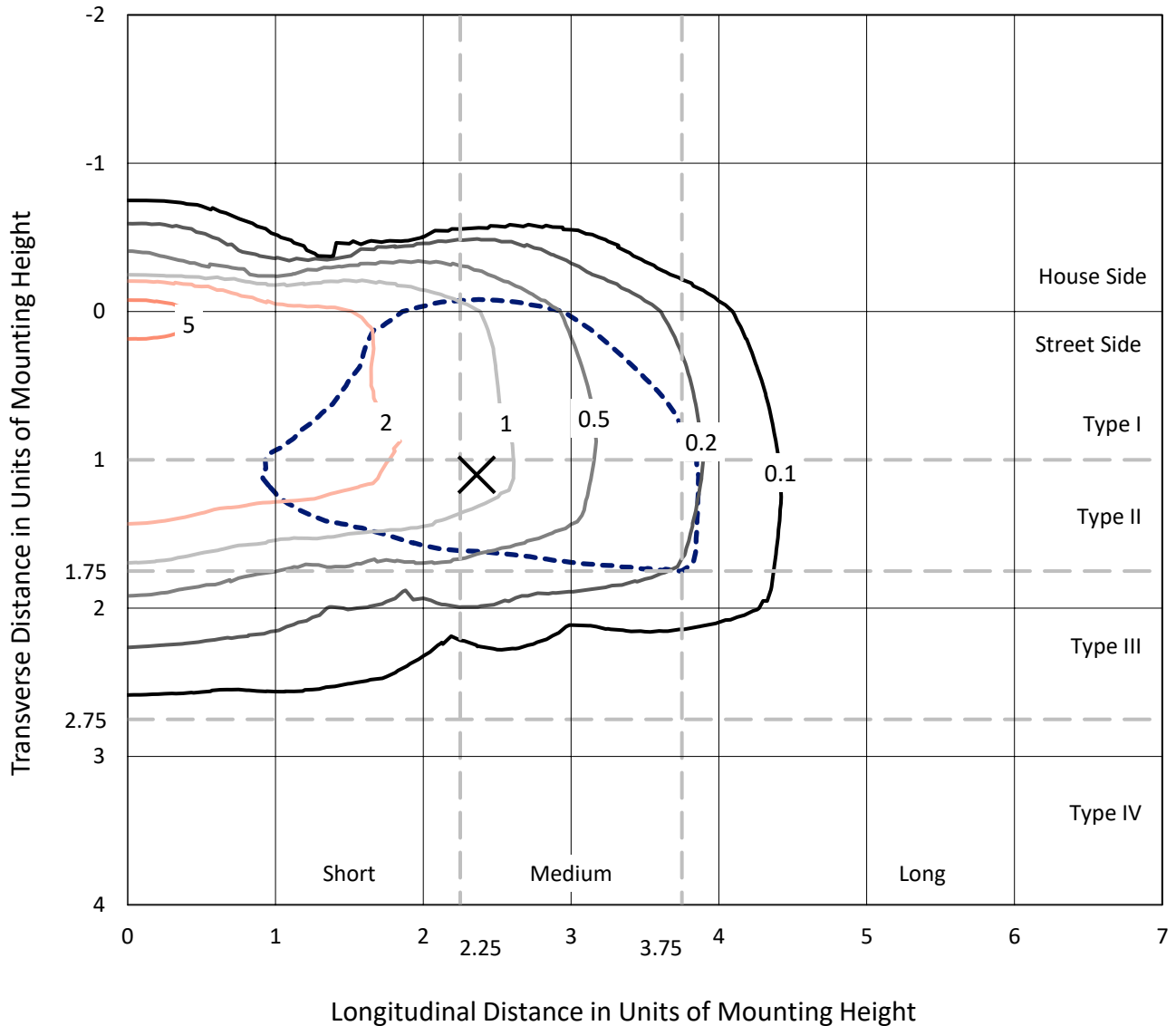
Lumens per Lamp: N/A
Luminaire Lumens: 10765 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

REPORT NUMBER: P483887
 CATALOG NUMBER: IFLD-S-SA2D-727-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

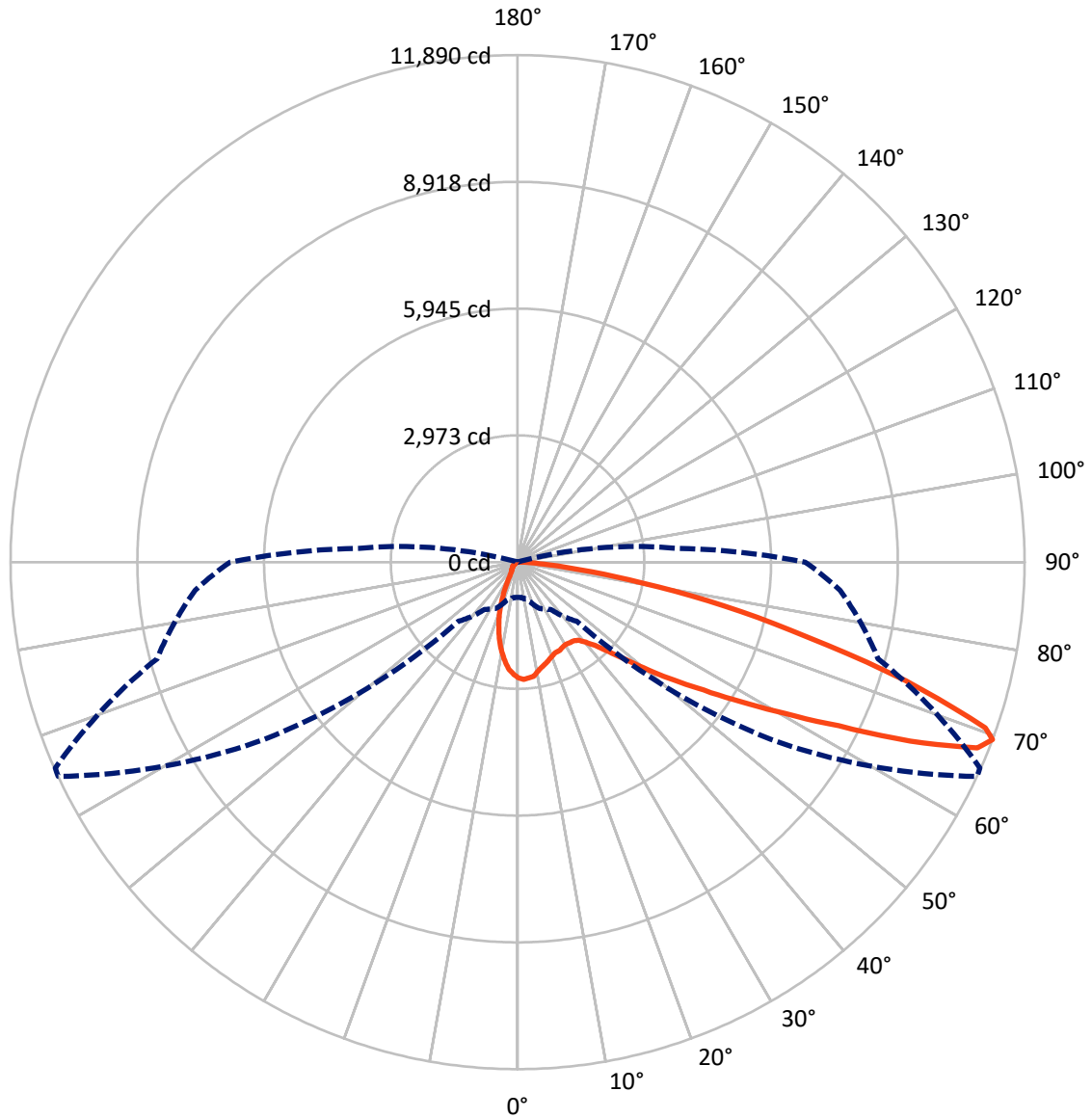
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Medium - N/A

REPORT NUMBER: P483887
CATALOG NUMBER: IFLD-S-SA2D-727-U-SL2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P483887
 CATALOG NUMBER: IFLD-S-SA2D-727-U-SL2-HSS

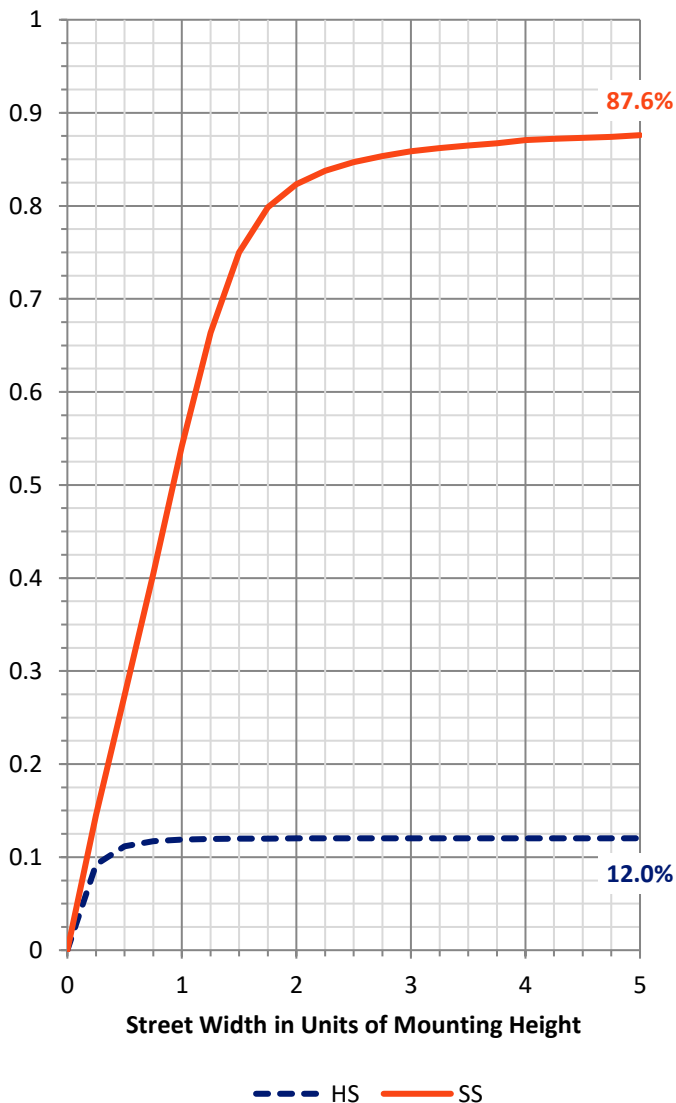
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1305.9	0.0	1305.9
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	9459.1	0.0	9459.1
	% Fixture	87.9	0.0	87.9
Total	Lumens	10765.0	0.0	10765.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.1	2.1
10°-20°	486.0	4.5
20°-30°	676.6	6.3
30°-40°	958.7	8.9
40°-50°	1511.0	14.0
50°-60°	2451.8	22.8
60°-70°	2738.1	25.4
70°-80°	1541.9	14.3
80°-90°	178.9	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°	10765.0	100.0
0°-180°	10765.0	100.0



REPORT NUMBER: P483887

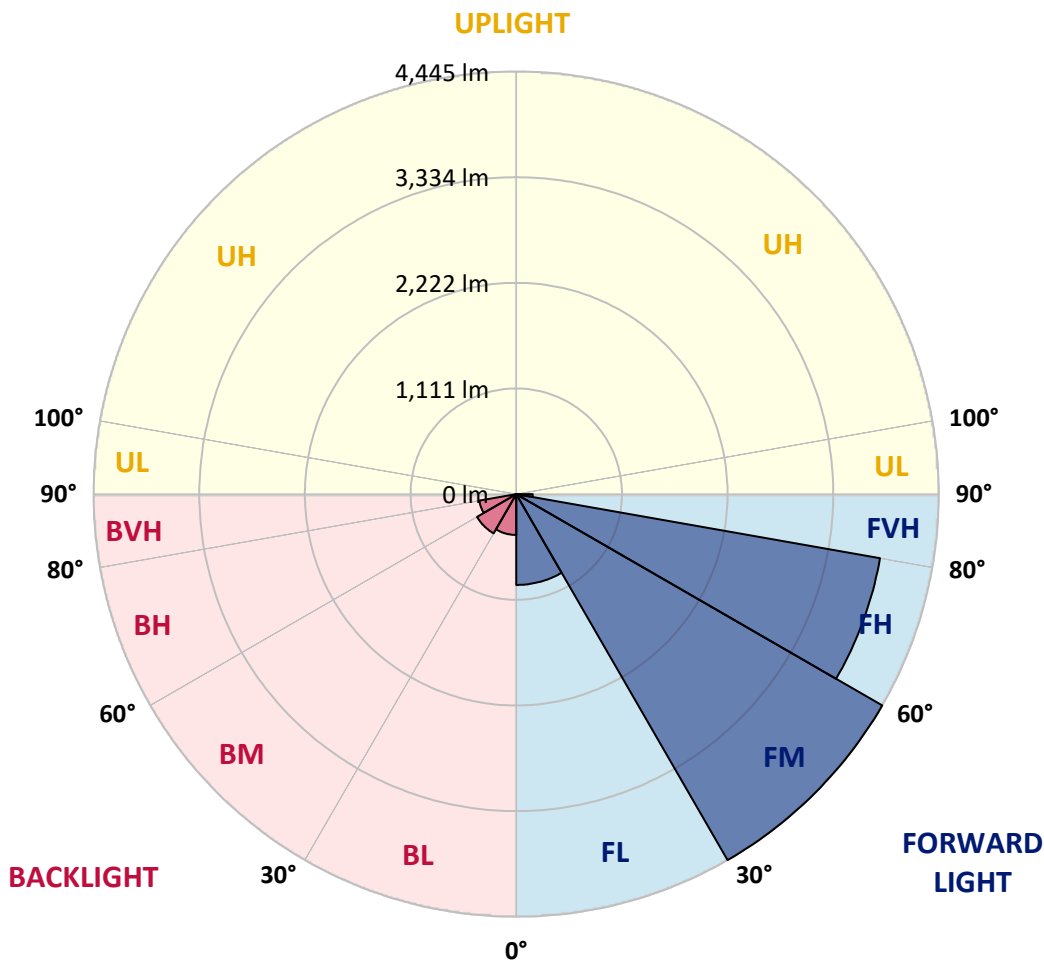
CATALOG NUMBER: IFLD-S-SA2D-727-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	955.3	8.9			
FM (30°-60°)	4445.0	41.3			
FH (60°-80°)	3884.9	36.1			G2/5000
FVH (80°-90°)	174.0	1.6			G2/225
BL (0°-30°)	429.3	4.0	B1/500		
BM (30°-60°)	476.5	4.4	B1/1000		
BH (60°-80°)	395.1	3.7	B1/500		G1/500
BVH (80°-90°)	4.9	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 II Medium





REPORT NUMBER: P483887

CATALOG NUMBER: IFLD-S-SA2D-727-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2714.1	2714.1	2714.1	2714.1	2714.1	2714.1	2714.1	2714.1	2714.1	2714.1	2714.1
2.5°	2613.9	2634.2	2640.0	2660.4	2670.5	2714.1	2738.8	2753.3	2746.0	2762.0	2763.5
5°	2428.0	2416.4	2446.9	2468.7	2515.2	2590.7	2667.6	2727.2	2754.8	2780.9	2776.5
7.5°	2229.1	2223.3	2253.8	2303.1	2345.3	2436.7	2560.2	2706.8	2701.0	2764.9	2783.8
10°	2092.6	2098.4	2108.5	2157.9	2220.4	2313.3	2467.2	2603.7	2634.2	2769.3	2807.0
12.5°	1967.7	1977.9	1996.7	2047.6	2120.2	2216.0	2365.6	2525.3	2571.8	2744.6	2820.1
15°	1927.0	1903.8	1941.5	1979.3	2054.8	2140.5	2266.8	2465.8	2486.1	2715.6	2841.9
17.5°	1893.6	1879.1	1896.5	1927.0	2006.9	2076.6	2195.7	2401.9	2439.6	2703.9	2839.0
20°	1903.8	1890.7	1898.0	1921.2	1957.5	2022.9	2133.2	2340.9	2381.6	2650.2	2834.6
22.5°	1932.8	1943.0	1929.9	1935.7	1947.4	1980.8	2099.8	2297.3	2332.2	2640.0	2859.3
25°	2063.5	2046.1	2028.7	2021.4	1953.2	1967.7	2089.7	2294.4	2319.1	2603.7	2839.0
27.5°	2200.0	2185.5	2178.3	2136.1	2043.2	1999.6	2091.1	2253.8	2287.2	2589.2	2814.3
30°	2365.6	2384.5	2355.4	2304.6	2175.3	2067.9	2107.1	2233.4	2279.9	2534.0	2798.3
32.5°	2539.8	2550.0	2564.5	2526.8	2359.8	2171.0	2155.0	2252.3	2255.2	2534.0	2762.0
35°	2737.3	2722.8	2760.6	2763.5	2616.8	2354.0	2246.5	2265.4	2295.9	2522.4	2749.0
37.5°	2907.2	2931.9	2975.5	3045.2	2894.2	2612.4	2388.8	2326.4	2339.4	2576.1	2759.1
40°	3093.1	3117.8	3216.6	3286.3	3200.6	2902.9	2605.2	2468.7	2478.8	2656.0	2811.4
42.5°	3297.9	3345.8	3463.4	3585.4	3562.2	3271.7	2884.0	2677.8	2673.4	2855.0	2918.9
45°	3575.2	3639.1	3766.9	3907.8	3928.1	3694.3	3255.8	2990.0	3004.5	3114.9	3141.0
47.5°	3961.5	3958.6	4083.5	4240.3	4358.0	4132.9	3700.1	3409.7	3408.2	3525.9	3470.7
50°	4334.7	4336.2	4369.6	4551.1	4856.0	4741.3	4250.5	3967.3	3951.3	4009.4	3920.9
52.5°	4507.5	4487.2	4462.5	4681.8	5239.4	5508.1	4947.5	4599.0	4585.9	4551.1	4527.9
55°	4326.0	4333.3	4331.8	4559.8	5441.3	6316.9	5842.1	5294.6	5272.8	5163.9	5195.9
57.5°	3743.7	3720.5	3771.3	4127.1	5210.4	6868.8	7121.4	6171.7	6115.1	5753.5	5680.9
60°	2786.7	2794.0	2836.1	3255.8	4636.8	6984.9	8345.6	7201.3	6957.3	6168.8	6068.6
62.5°	1945.9	1931.4	1947.4	2182.6	3315.3	6520.2	9173.3	8453.1	8217.8	6640.8	6582.7
65°	1392.6	1373.8	1437.6	1581.4	1990.9	4985.3	9291.0	10120.2	9909.6	7394.4	7255.0
67.5°	1002.0	999.1	1073.2	1334.5	1414.4	2870.9	8419.7	11630.4	11502.6	8289.0	7664.5
69°	829.2	830.6	901.8	1195.1	1350.5	1960.4	7244.9	11890.3	11867.1	8750.8	7587.6
70°	723.2	729.0	811.8	1112.4	1324.4	1611.9	6245.8	11634.8	11611.5	8840.8	7333.4
72.5°	445.8	450.2	559.1	891.6	1259.0	1315.7	3735.0	9519.0	9598.8	8428.4	6318.4
75°	213.5	214.9	293.3	644.8	1214.0	1247.4	2001.1	7024.1	7192.6	6804.9	4937.4
77.5°	113.3	113.3	140.9	342.7	983.1	1173.4	1187.9	4954.8	5094.2	4302.8	2807.0
80°	56.6	58.1	85.7	178.6	609.9	1150.1	927.9	2955.2	3030.7	1755.7	874.2
82.5°	21.8	23.2	40.7	107.5	316.6	971.5	814.7	1453.6	1434.7	411.0	213.5
85°	2.9	2.9	14.5	63.9	135.1	428.4	672.4	607.0	586.7	90.0	103.1
87.5°	0.0	0.0	2.9	18.9	40.7	124.9	259.9	167.0	185.9	24.7	50.8
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: P483887

CATALOG NUMBER: IFLD-S-SA2D-727-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2714.1	2714.1	2714.1	2714.1	2714.1	2714.1	2714.1	2714.1	2714.1	2714.1	2714.1
2.5°	2756.2	2725.7	2679.2	2634.2	2586.3	2528.2	2464.3	2441.1	2400.4	2397.5	2420.8
5°	2753.3	2703.9	2622.6	2526.8	2390.3	2287.2	2175.3	2094.0	2031.6	1990.9	2001.1
7.5°	2767.8	2708.3	2567.4	2361.2	2185.5	1980.8	1807.9	1688.9	1580.0	1526.2	1520.4
10°	2744.6	2664.7	2458.5	2169.5	1911.1	1625.0	1372.3	1212.6	1049.9	990.4	993.3
12.5°	2757.7	2645.8	2340.9	1972.0	1616.3	1244.5	942.5	724.6	572.2	522.8	517.0
15°	2766.4	2605.2	2227.6	1735.3	1289.5	848.1	546.0	411.0	363.0	354.3	352.9
17.5°	2733.0	2555.8	2067.9	1501.5	955.5	515.5	363.0	335.5	326.7	320.9	318.0
20°	2731.5	2526.8	1929.9	1261.9	637.5	351.4	313.7	303.5	290.4	286.1	286.1
22.5°	2706.8	2465.8	1764.4	999.1	406.6	302.1	281.7	265.7	251.2	245.4	244.0
25°	2699.6	2394.6	1609.0	750.8	309.3	270.1	249.8	226.5	209.1	200.4	196.0
27.5°	2679.2	2333.6	1452.2	528.6	270.1	241.1	214.9	190.2	169.9	156.8	155.4
30°	2606.6	2269.7	1277.9	365.9	245.4	213.5	184.4	155.4	135.1	126.3	123.4
32.5°	2576.1	2210.2	1087.7	281.7	223.6	188.8	155.4	129.2	113.3	104.6	103.1
35°	2539.8	2123.1	903.2	245.4	203.3	164.1	130.7	108.9	95.8	88.6	88.6
37.5°	2544.2	2053.4	730.4	222.2	181.5	140.9	111.8	92.9	81.3	74.1	74.1
40°	2531.1	1998.2	567.8	201.9	161.2	120.5	94.4	78.4	68.3	61.0	59.5
42.5°	2590.7	1983.7	428.4	184.4	140.9	103.1	81.3	66.8	56.6	47.9	47.9
45°	2690.9	2006.9	334.0	168.5	120.5	88.6	69.7	55.2	45.0	39.2	37.8
47.5°	2958.1	2098.4	261.4	155.4	103.1	77.0	58.1	45.0	36.3	30.5	29.0
50°	3345.8	2303.1	222.2	136.5	87.1	65.3	47.9	34.9	29.0	23.2	21.8
52.5°	3897.6	2647.3	201.9	120.5	72.6	53.7	37.8	27.6	21.8	17.4	16.0
55°	4498.8	3077.1	183.0	101.7	61.0	43.6	30.5	21.8	16.0	11.6	10.2
57.5°	4967.9	3448.9	167.0	84.2	49.4	34.9	23.2	16.0	11.6	7.3	5.8
60°	5480.5	3710.3	146.7	66.8	40.7	26.1	17.4	11.6	8.7	4.4	4.4
62.5°	6009.1	4016.7	120.5	52.3	31.9	20.3	13.1	8.7	5.8	1.5	1.5
65°	6743.9	4256.3	92.9	40.7	24.7	14.5	10.2	7.3	2.9	0.0	0.0
67.5°	6951.5	4138.7	68.3	31.9	17.4	10.2	7.3	4.4	1.5	0.0	0.0
69°	6743.9	3727.7	59.5	27.6	14.5	8.7	5.8	2.9	1.5	0.0	0.0
70°	6364.8	3408.2	52.3	23.2	13.1	8.7	4.4	2.9	1.5	0.0	0.0
72.5°	5323.6	2613.9	40.7	17.4	10.2	7.3	4.4	2.9	0.0	0.0	0.0
75°	3904.9	1614.8	30.5	13.1	8.7	5.8	4.4	2.9	0.0	0.0	0.0
77.5°	2092.6	589.6	21.8	8.7	5.8	4.4	4.4	2.9	0.0	0.0	0.0
80°	573.6	174.3	16.0	5.8	4.4	2.9	2.9	1.5	0.0	0.0	0.0
82.5°	156.8	45.0	10.2	5.8	4.4	2.9	1.5	0.0	0.0	0.0	0.0
85°	84.2	17.4	5.8	4.4	2.9	1.5	0.0	0.0	0.0	0.0	0.0
87.5°	43.6	5.8	4.4	2.9	2.9	1.5	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)