

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: P484904

Luminaire Tested: **IFLD-S-SA3B-827-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484904
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-827-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

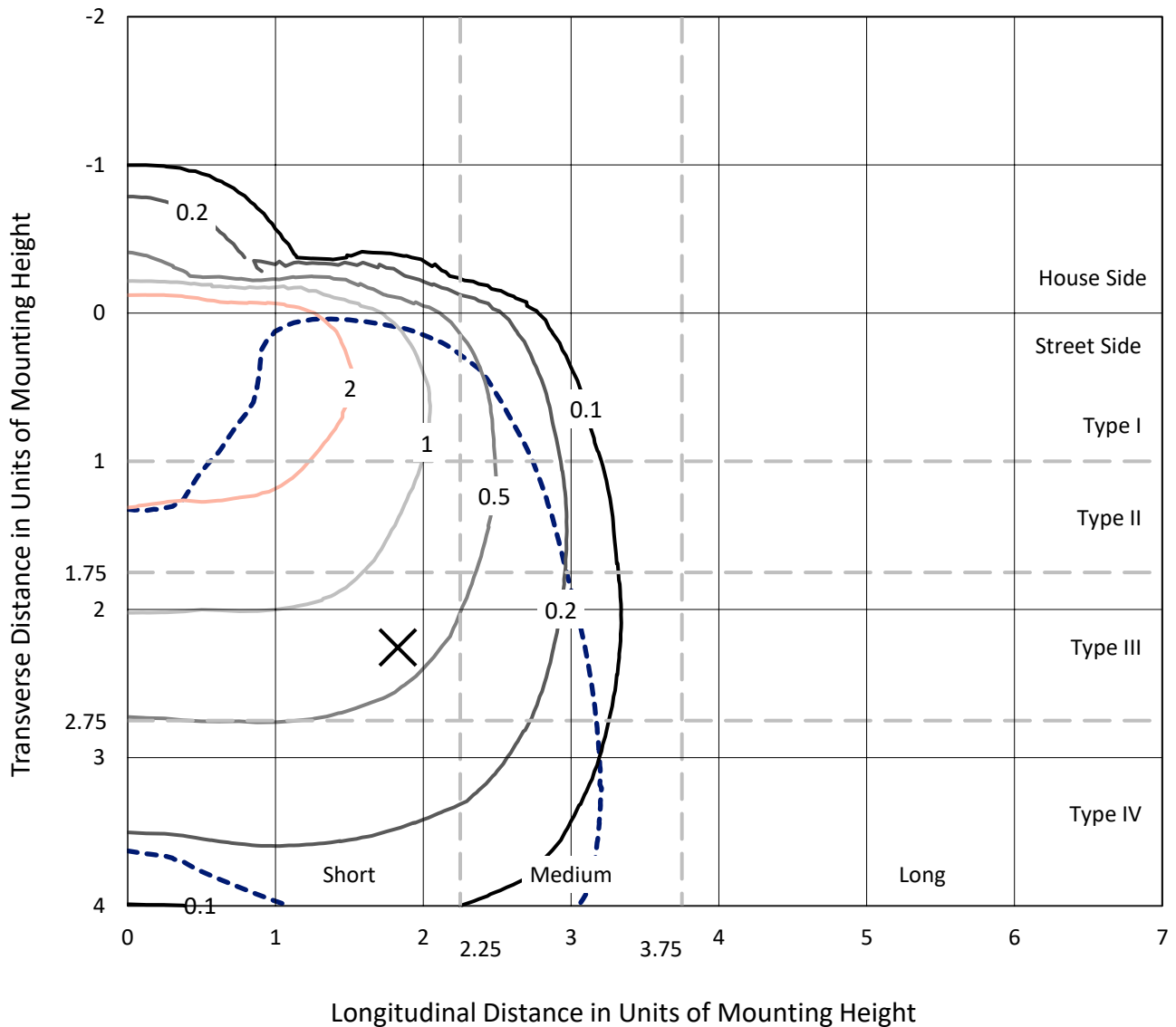
Lumens per Lamp: N/A
Luminaire Lumens: 10333.4 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.4
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: P484904
 CATALOG NUMBER: IFLD-S-SA3B-827-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

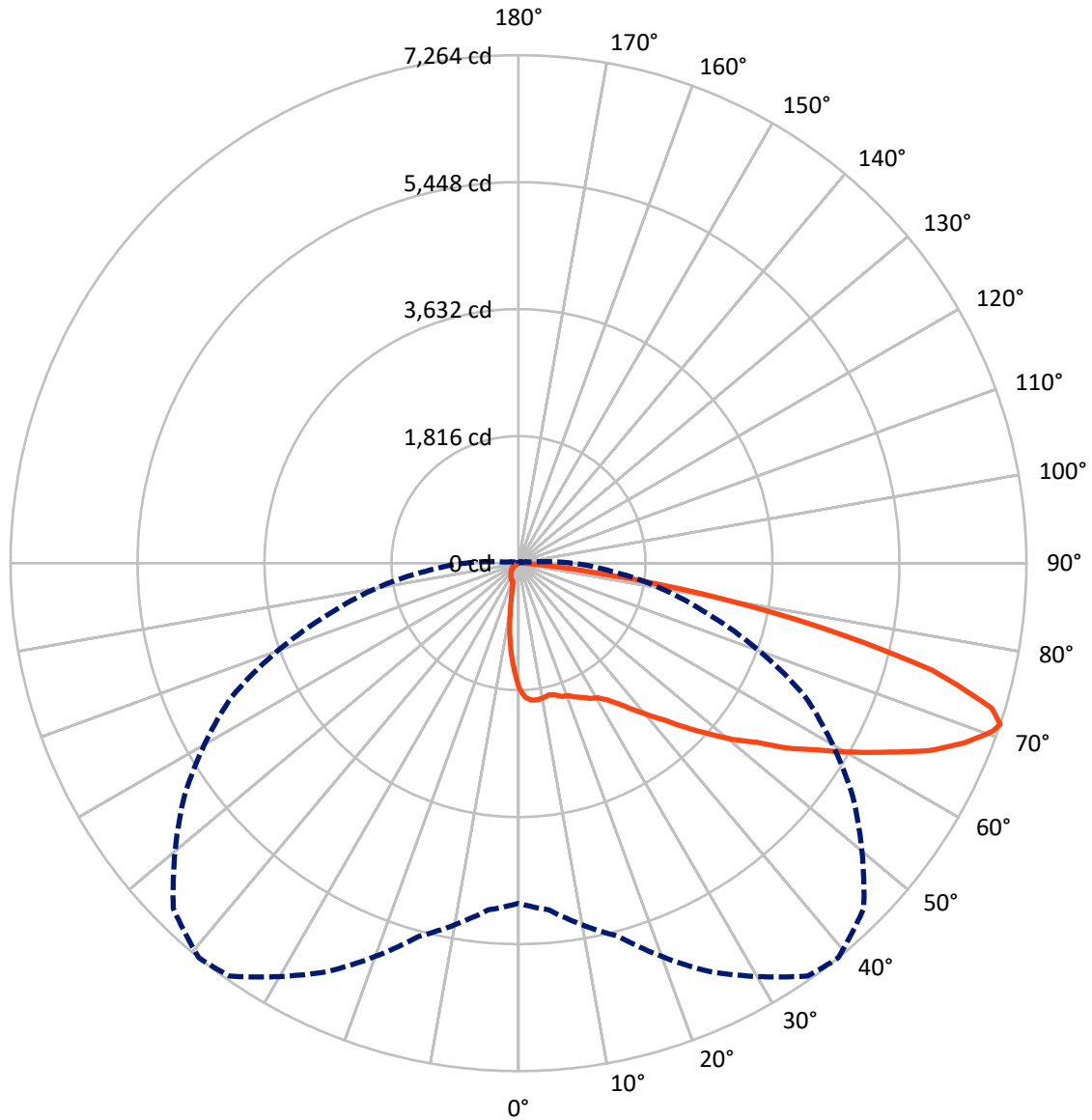
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P484904
CATALOG NUMBER: IFLD-S-SA3B-827-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P484904

CATALOG NUMBER: IFLD-S-SA3B-827-U-SL4-HSS

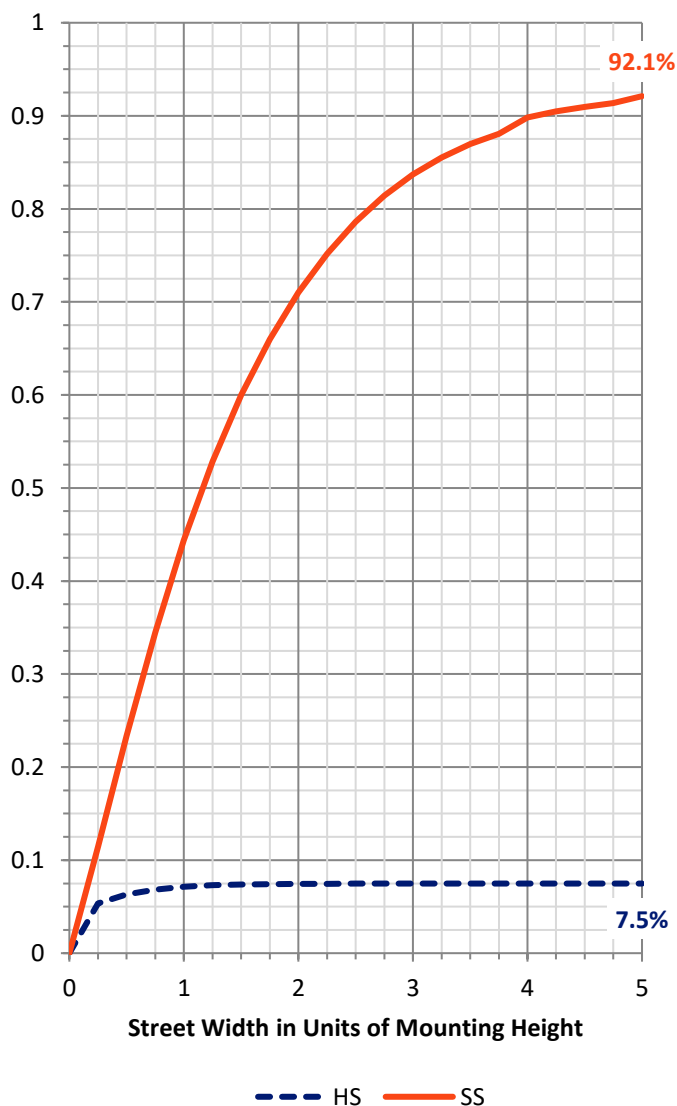
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	778.0	0.0	778.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	9555.4	0.0	9555.4
	% Fixture	92.5	0.0	92.5
Total	Lumens	10333.4	0.0	10333.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.4	1.5
10°-20°	370.1	3.6
20°-30°	594.2	5.8
30°-40°	909.5	8.8
40°-50°	1460.0	14.1
50°-60°	2144.4	20.8
60°-70°	2700.9	26.1
70°-80°	1802.5	17.4
80°-90°	201.4	1.9
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°	10333.4	100.0
0°-180°	10333.4	100.0

Coefficient of Utilization



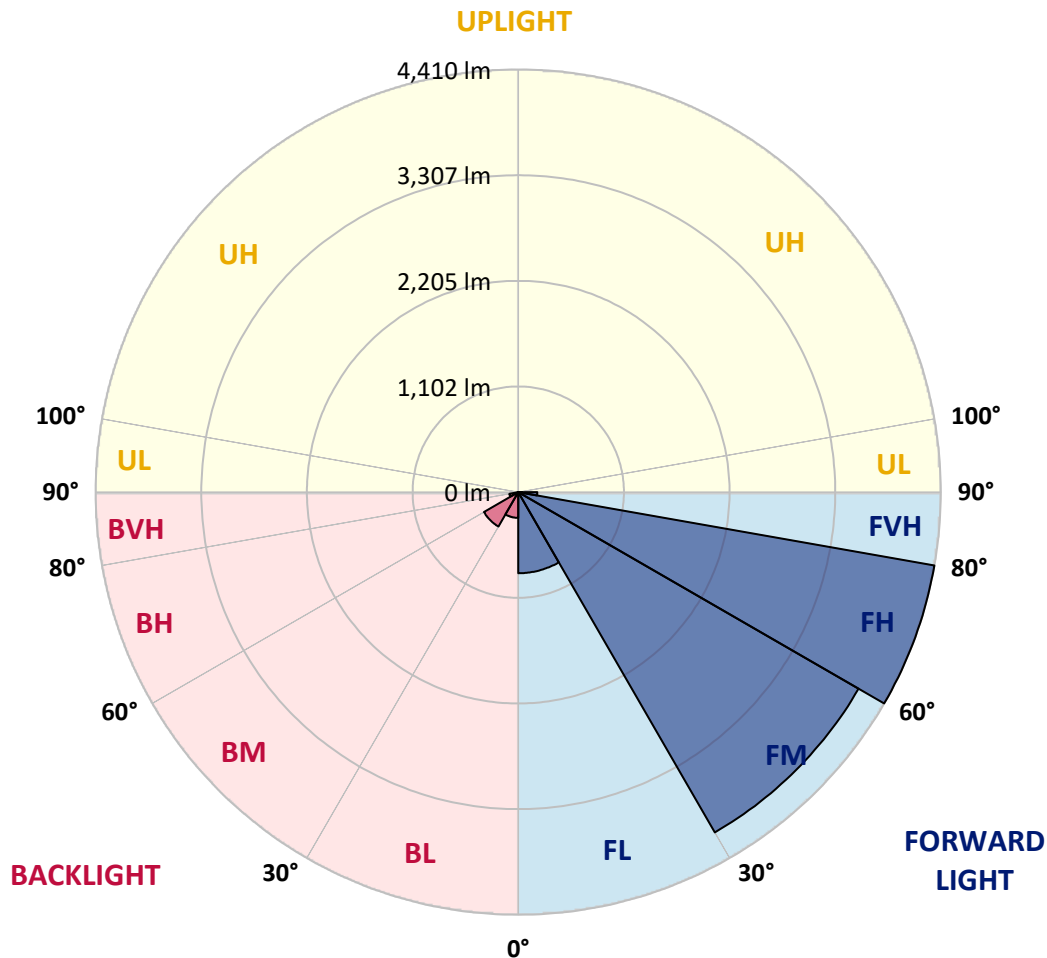
REPORT NUMBER: P484904
 CATALOG NUMBER: IFLD-S-SA3B-827-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	846.1	8.2			
FM (30°-60°)	4100.4	39.7			
FH (60°-80°)	4409.7	42.7			G2/5000
FVH (80°-90°)	199.2	1.9			G2/225
BL (0°-30°)	268.6	2.6	B1/500		
BM (30°-60°)	413.5	4.0	B1/1000		
BH (60°-80°)	93.6	0.9	B0/110		G0/110
BVH (80°-90°)	2.2	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 IV Short





REPORT NUMBER: P484904

CATALOG NUMBER: IFLD-S-SA3B-827-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1798.6	1798.6	1798.6	1798.6	1798.6	1798.6	1798.6	1798.6	1798.6	1798.6	1798.6
2.5°	1938.2	1957.2	1938.2	1930.1	1921.9	1923.3	1901.6	1905.7	1879.9	1846.0	1818.9
5°	1999.2	2024.9	2004.6	1995.1	1993.8	1968.0	1957.2	1931.4	1900.2	1847.4	1814.9
7.5°	1993.8	1988.3	1997.8	1989.7	1972.1	1972.1	1959.9	1923.3	1892.1	1832.5	1776.9
10°	1953.1	1969.4	1961.2	1951.7	1955.8	1957.2	1934.1	1908.4	1898.9	1839.3	1748.4
12.5°	1949.0	1921.9	1951.7	1953.1	1935.5	1934.1	1931.4	1924.6	1894.8	1840.6	1755.2
15°	1935.5	1924.6	1954.5	1955.8	1959.9	1955.8	1959.9	1954.5	1924.6	1893.5	1785.0
17.5°	1946.3	1934.1	1976.1	1996.5	1987.0	2006.0	1999.2	1974.8	1949.0	1912.4	1813.5
20°	1949.0	1966.7	2012.7	2020.9	2050.7	2019.5	2018.2	1992.4	1976.1	1936.8	1831.1
22.5°	1999.2	2007.3	2064.2	2081.9	2083.2	2079.2	2045.3	2015.5	2008.7	1959.9	1835.2
25°	2075.1	2103.6	2129.3	2140.1	2144.2	2125.2	2090.0	2052.0	2035.8	2004.6	1877.2
27.5°	2209.3	2191.7	2214.7	2231.0	2184.9	2191.7	2146.9	2114.4	2091.4	2064.2	1926.0
30°	2328.5	2312.3	2313.6	2310.9	2271.6	2235.0	2222.8	2165.9	2137.4	2148.3	2001.9
32.5°	2435.6	2400.4	2430.2	2416.6	2343.5	2332.6	2323.1	2251.3	2256.7	2306.9	2115.7
35°	2534.6	2522.4	2546.8	2522.4	2473.6	2470.9	2461.4	2399.0	2428.8	2500.7	2310.9
37.5°	2625.4	2629.4	2659.3	2647.1	2651.1	2653.8	2648.4	2582.0	2667.4	2828.7	2538.6
40°	2709.4	2704.0	2777.2	2815.1	2823.3	2853.1	2853.1	2836.8	2968.3	3149.9	2854.4
42.5°	2798.9	2812.4	2907.3	2971.0	3048.3	3074.0	3109.2	3117.4	3320.7	3528.1	3177.0
45°	2945.2	2922.2	3042.8	3193.3	3261.0	3351.9	3406.1	3452.2	3697.5	3982.1	3499.6
47.5°	3130.9	3084.8	3190.6	3408.8	3566.0	3640.6	3738.1	3799.1	4039.0	4333.2	3804.6
50°	3336.9	3289.5	3341.0	3641.9	3824.9	3960.4	4085.1	4162.4	4452.4	4726.2	4026.8
52.5°	3570.1	3526.7	3534.8	3884.5	4154.2	4253.2	4417.2	4532.4	4821.1	4963.4	4105.4
55°	3818.1	3807.3	3781.5	4121.7	4442.9	4665.2	4764.2	4902.4	5199.2	5092.2	4190.8
57.5°	4067.5	4033.6	4070.2	4436.2	4906.5	5039.3	5176.2	5258.9	5409.3	5204.7	4158.3
60°	4302.0	4304.7	4356.2	4777.7	5300.9	5489.3	5612.6	5562.5	5624.8	5253.5	4083.8
62.5°	4499.9	4494.4	4624.6	5161.3	5822.7	5950.1	6042.3	5818.6	5725.1	5300.9	3953.6
65°	4677.4	4738.4	4943.1	5618.1	6313.4	6459.7	6404.2	6061.3	5822.7	5161.3	3587.7
67.5°	4811.6	4902.4	5257.5	6047.7	6763.3	6866.4	6789.1	6245.6	5707.5	4613.7	2922.2
70°	4890.2	4982.4	5482.5	6405.5	7122.5	7197.1	7015.5	6103.3	5035.2	3341.0	1823.0
71°	4865.8	4978.3	5525.9	6443.5	7207.9	7263.5	6981.6	5840.3	4528.3	2797.5	1329.6
72.5°	4644.9	4750.6	5345.6	6416.4	7104.9	7071.0	6717.3	5208.7	3564.7	1783.7	687.2
75°	3412.8	3526.7	4588.0	5550.3	6341.8	6108.7	5436.4	3655.5	1859.6	546.2	200.6
77.5°	1699.6	1718.6	2847.7	4029.5	4651.7	4419.9	3643.3	2038.5	695.3	161.3	100.3
80°	783.4	788.8	1068.0	2087.3	2812.4	2647.1	2041.2	1005.7	314.4	85.4	78.6
82.5°	534.0	542.2	643.8	864.7	1221.2	1030.1	826.8	643.8	180.3	51.5	77.3
85°	97.6	89.5	360.5	458.1	471.7	319.9	286.0	557.1	67.8	29.8	67.8
87.5°	0.0	1.4	50.1	187.0	168.1	74.5	97.6	135.5	6.8	9.5	12.2
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: P484904

CATALOG NUMBER: IFLD-S-SA3B-827-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1798.6	1798.6	1798.6	1798.6	1798.6	1798.6	1798.6	1798.6	1798.6	1798.6	1798.6
2.5°	1795.9	1781.0	1730.8	1675.3	1625.1	1585.8	1535.6	1512.6	1476.0	1455.7	1454.3
5°	1770.1	1729.5	1642.7	1549.2	1444.8	1358.1	1261.9	1207.6	1145.3	1126.3	1122.3
7.5°	1726.8	1668.5	1541.1	1409.6	1249.7	1096.5	978.6	852.5	775.3	742.7	730.6
10°	1699.6	1629.2	1455.7	1259.1	1035.5	820.0	654.6	520.5	450.0	416.1	408.0
12.5°	1699.6	1623.7	1386.6	1115.5	818.6	561.1	405.3	328.0	305.0	296.8	296.8
15°	1695.6	1612.9	1320.1	967.7	605.9	376.8	302.2	286.0	283.3	281.9	280.6
17.5°	1715.9	1593.9	1252.4	809.2	428.3	296.8	277.9	275.1	272.4	272.4	269.7
20°	1730.8	1583.1	1171.0	641.1	319.9	275.1	267.0	262.9	261.6	260.2	262.9
22.5°	1718.6	1566.8	1070.8	479.8	279.2	261.6	256.2	252.1	249.4	249.4	250.7
25°	1741.7	1551.9	970.5	361.9	261.6	249.4	244.0	241.3	239.9	238.5	235.8
27.5°	1772.8	1558.7	851.2	291.4	246.7	237.2	231.8	229.1	227.7	225.0	227.7
30°	1810.8	1557.3	719.7	254.8	233.1	223.6	218.2	216.9	214.2	212.8	214.2
32.5°	1875.8	1592.6	584.2	235.8	218.2	210.1	204.7	203.3	202.0	200.6	199.2
35°	2015.5	1635.9	456.8	220.9	204.7	195.2	191.1	188.4	187.0	185.7	184.3
37.5°	2187.6	1732.2	348.3	207.4	191.1	181.6	177.6	176.2	170.8	169.4	168.1
40°	2403.1	1835.2	268.4	192.5	178.9	169.4	165.4	161.3	154.5	151.8	149.1
42.5°	2671.5	1935.5	220.9	178.9	165.4	158.6	151.8	145.0	139.6	134.2	131.5
45°	2939.8	2052.0	193.8	166.7	154.5	146.4	141.0	131.5	122.0	113.9	112.5
47.5°	3163.5	2094.1	177.6	153.2	143.7	136.9	128.8	116.6	103.0	94.9	93.5
50°	3330.2	2069.7	161.3	139.6	131.5	124.7	113.9	98.9	85.4	77.3	74.5
52.5°	3362.7	1962.6	146.4	128.8	119.3	111.1	98.9	82.7	67.8	59.6	58.3
55°	3339.7	1785.0	134.2	119.3	108.4	96.2	82.7	66.4	52.9	44.7	43.4
57.5°	3292.2	1575.0	120.6	107.1	94.9	82.7	67.8	54.2	39.3	31.2	31.2
60°	3130.9	1289.0	107.1	93.5	81.3	70.5	55.6	39.3	27.1	20.3	19.0
62.5°	2905.9	990.8	93.5	80.0	70.5	58.3	43.4	28.5	16.3	10.8	10.8
65°	2495.3	694.0	78.6	66.4	58.3	47.4	32.5	17.6	9.5	4.1	4.1
67.5°	1896.2	429.7	65.1	55.6	50.1	38.0	23.0	10.8	4.1	1.4	0.0
70°	1088.4	223.6	51.5	44.7	39.3	28.5	16.3	5.4	2.7	0.0	0.0
71°	760.4	165.4	46.1	39.3	35.2	25.8	13.6	4.1	1.4	0.0	0.0
72.5°	380.9	109.8	39.3	32.5	28.5	20.3	10.8	4.1	1.4	0.0	0.0
75°	135.5	70.5	27.1	21.7	20.3	14.9	6.8	2.7	1.4	0.0	0.0
77.5°	93.5	56.9	19.0	13.6	13.6	9.5	4.1	1.4	1.4	0.0	0.0
80°	85.4	31.2	12.2	8.1	6.8	5.4	2.7	1.4	0.0	0.0	0.0
82.5°	85.4	23.0	6.8	5.4	4.1	2.7	1.4	0.0	0.0	0.0	0.0
85°	59.6	12.2	4.1	4.1	2.7	1.4	0.0	0.0	0.0	0.0	0.0
87.5°	9.5	4.1	2.7	1.4	1.4	0.0	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)