

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: P481725

Luminaire Tested: **IFLD-M-SA4A-750-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481725
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-750-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

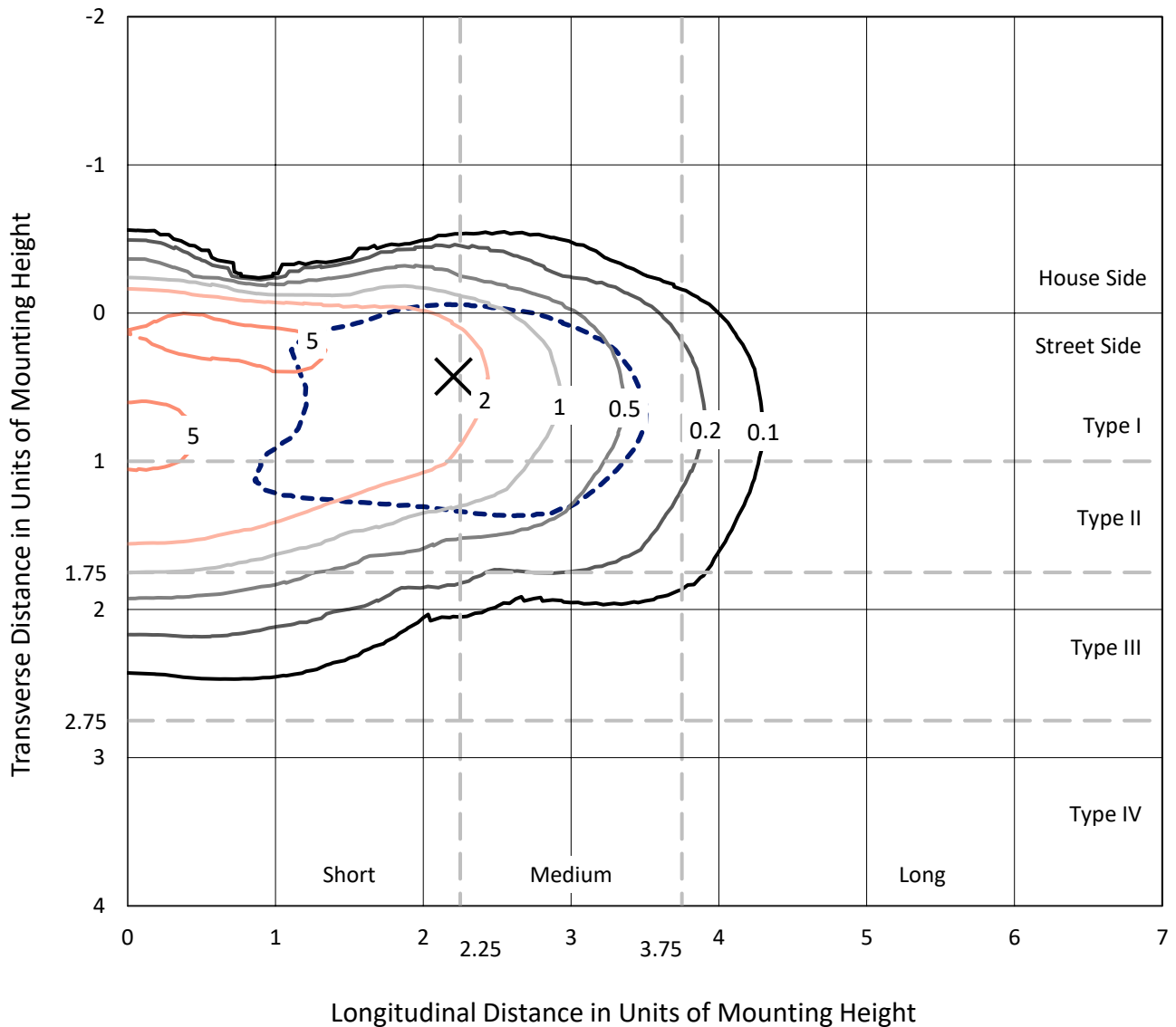
Lumens per Lamp: N/A
Luminaire Lumens: 13603.6 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 128.6
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: P481725
 CATALOG NUMBER: IFLD-M-SA4A-750-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

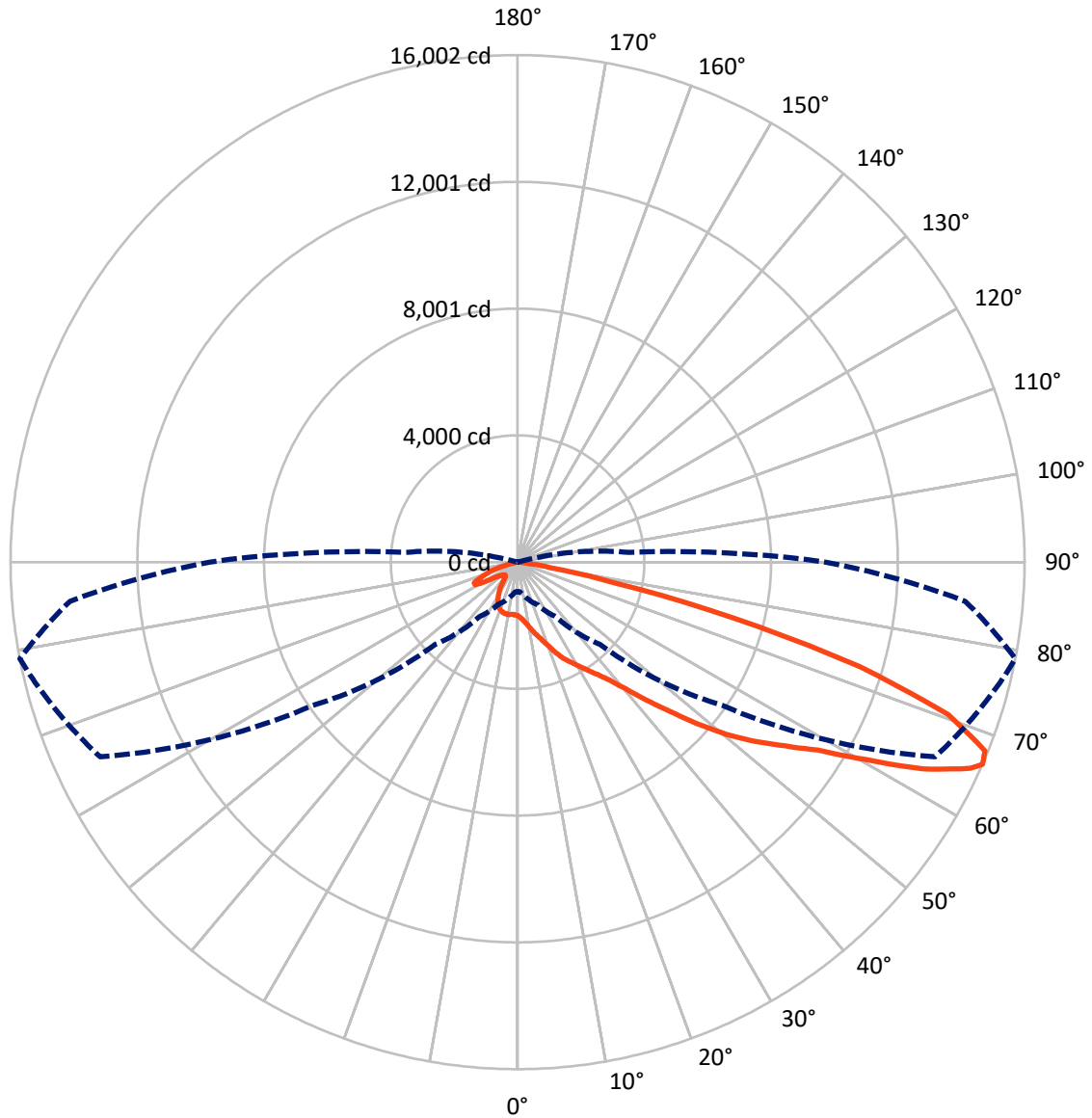
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

REPORT NUMBER: P481725
CATALOG NUMBER: IFLD-M-SA4A-750-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P481725
 CATALOG NUMBER: IFLD-M-SA4A-750-U-T2-HSS

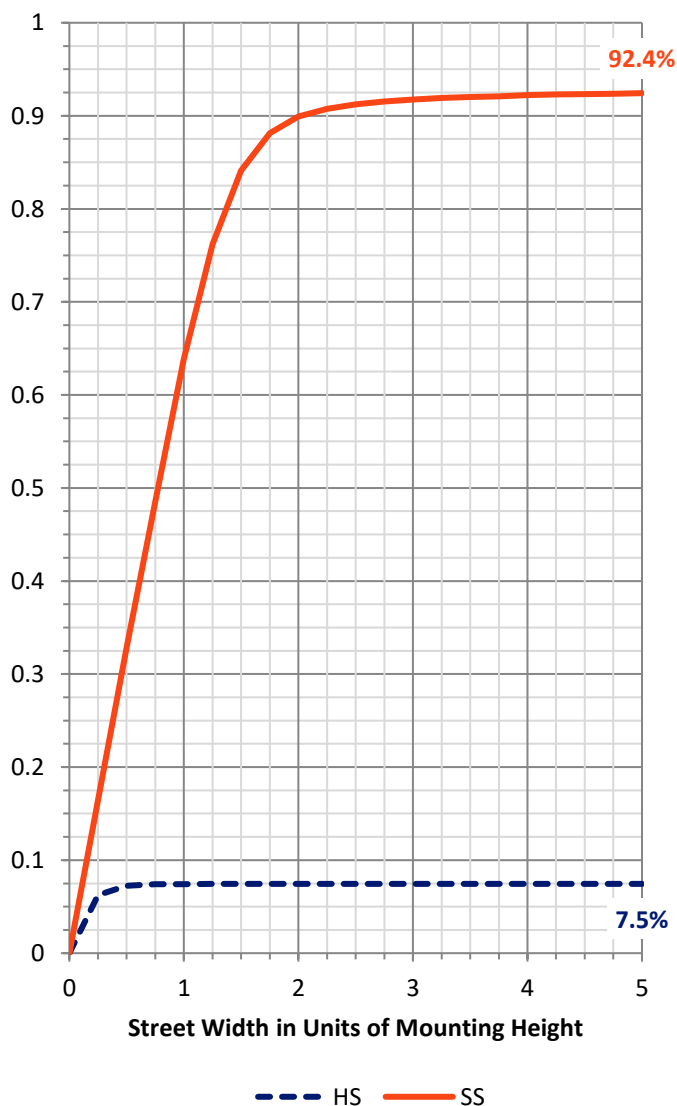
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1021.4	0.0	1021.4
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	12582.2	0.0	12582.2
	% Fixture	92.5	0.0	92.5
Total	Lumens	13603.6	0.0	13603.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.1	1.2
10°-20°	440.5	3.2
20°-30°	731.8	5.4
30°-40°	1256.9	9.2
40°-50°	2277.1	16.7
50°-60°	3599.4	26.5
60°-70°	3662.7	26.9
70°-80°	1396.8	10.3
80°-90°	78.3	0.6
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°	13603.6	100.0
0°-180°	13603.6	100.0

Coefficient of Utilization



REPORT NUMBER: P481725

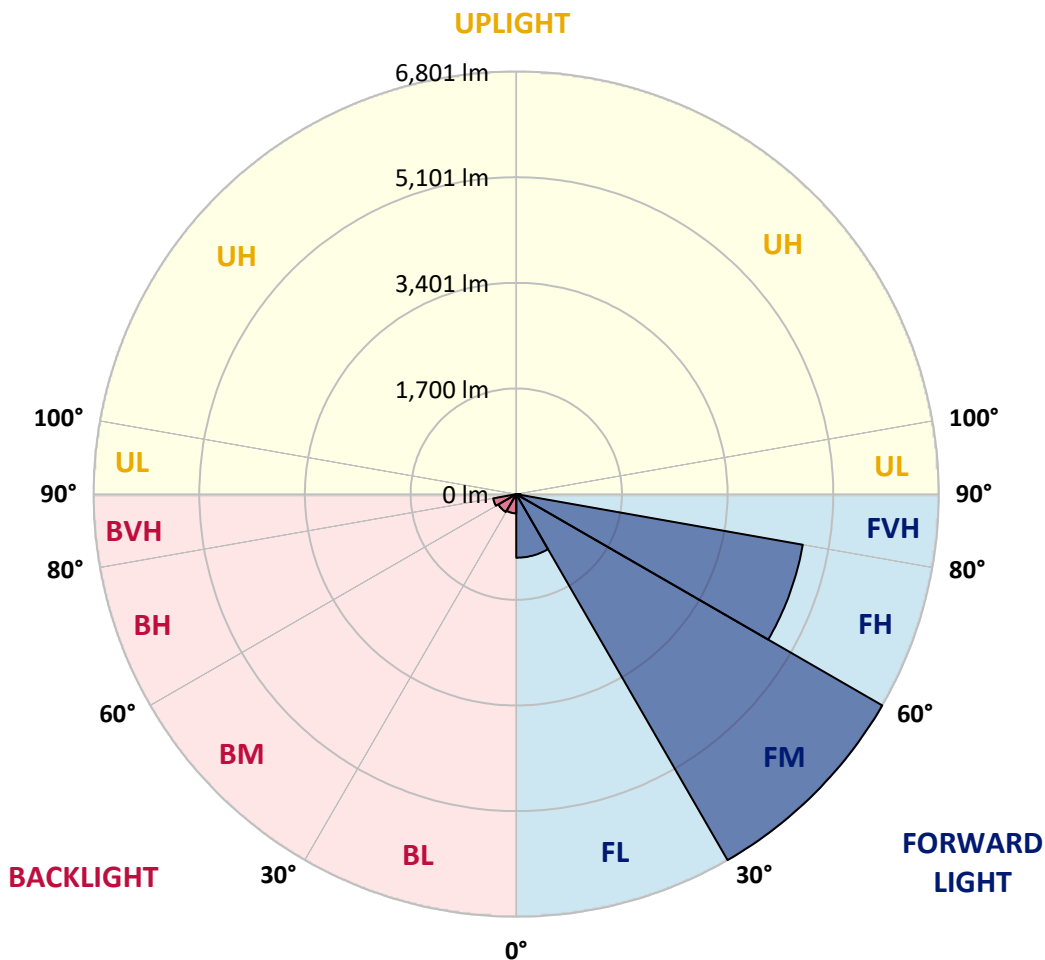
CATALOG NUMBER: IFLD-M-SA4A-750-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1023.4	7.5			
FM (30°-60°)	6801.5	50.0			
FH (60°-80°)	4682.9	34.4			G2/5000
FVH (80°-90°)	74.3	0.5			G1/100
BL (0°-30°)	308.9	2.3	B1/500		
BM (30°-60°)	332.0	2.4	B1/1000		
BH (60°-80°)	376.5	2.8	B1/500		G1/500
BVH (80°-90°)	4.0	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 Short





REPORT NUMBER: P481725

CATALOG NUMBER: IFLD-M-SA4A-750-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1692.5	1692.5	1692.5	1692.5	1692.5	1692.5	1692.5	1692.5	1692.5	1692.5	1692.5
2.5°	1916.9	1914.8	1906.4	1891.7	1872.8	1866.5	1839.3	1801.5	1780.5	1757.5	1747.0
5°	2049.0	2038.5	2063.7	2053.2	2057.4	2007.0	1973.5	1946.2	1866.5	1835.1	1784.7
7.5°	2078.3	2088.8	2086.7	2103.5	2120.3	2139.2	2116.1	2076.2	1996.5	1950.4	1895.9
10°	2078.3	2074.1	2090.9	2114.0	2162.2	2204.2	2267.1	2214.7	2153.8	2099.3	2000.7
12.5°	2040.6	2034.3	2051.1	2099.3	2185.3	2271.3	2340.5	2390.8	2304.8	2260.8	2132.9
15°	1925.2	1919.0	1988.2	2074.1	2187.4	2327.9	2472.6	2554.4	2495.7	2426.5	2283.9
17.5°	1782.6	1791.0	1864.4	2007.0	2187.4	2355.2	2539.7	2718.0	2709.6	2621.5	2472.6
20°	1734.4	1740.7	1814.1	1916.9	2122.4	2374.0	2644.6	2896.3	2946.6	2841.7	2646.7
22.5°	1826.7	1820.4	1826.7	1889.6	2078.3	2357.3	2713.8	3099.7	3189.9	3108.1	2875.3
25°	2141.3	2137.1	2084.6	1988.2	2053.2	2319.5	2749.4	3233.9	3441.5	3366.0	3059.8
27.5°	2602.6	2585.9	2504.1	2302.7	2170.6	2342.6	2808.2	3363.9	3661.7	3575.8	3225.5
30°	3097.6	3057.7	2950.8	2699.1	2474.7	2428.6	2841.7	3460.4	3907.1	3798.1	3370.2
32.5°	3439.4	3491.9	3458.3	3202.4	2858.5	2627.8	2896.3	3582.0	4133.6	4062.3	3617.7
35°	3967.9	4028.7	3888.2	3661.7	3315.7	2944.5	3011.6	3680.6	4481.7	4362.2	3848.4
37.5°	4634.8	4681.0	4580.3	4150.4	3785.5	3334.6	3248.6	3886.1	4781.6	4725.0	4144.1
40°	4970.4	5192.7	5050.1	4662.1	4269.9	3879.8	3640.8	4127.3	5303.9	5257.7	4553.1
42.5°	5433.9	5545.0	5471.6	5184.3	4775.4	4462.9	4125.2	4597.1	5937.2	5937.2	5106.7
45°	5924.6	5928.8	5924.6	5689.7	5326.9	5165.4	4779.6	5186.4	6618.8	6694.3	5769.4
47.5°	6327.3	6453.1	6442.6	6302.1	6021.1	5960.3	5433.9	5857.5	7474.5	7606.6	6415.4
50°	6534.9	6675.4	6717.4	6790.8	6778.2	6906.1	6149.0	6635.6	8212.7	8537.8	7245.9
52.5°	6478.3	6488.8	6746.7	7036.2	7497.5	7856.2	7011.0	7518.5	9076.7	9397.6	7887.6
55°	6014.8	5975.0	6505.6	6836.9	7791.2	8437.1	8204.3	8619.6	9749.9	10238.6	8550.3
57.5°	4997.7	5008.1	5498.9	6172.1	7573.0	8667.8	9479.4	10058.2	10693.7	11186.5	9481.5
60°	3449.9	3437.3	3986.8	4764.9	6291.6	8237.9	10213.4	11922.7	11956.2	12654.6	11153.0
62.5°	1939.9	1944.1	2361.5	3026.3	4402.1	6732.1	10177.8	13902.4	13759.8	14372.2	13053.1
65°	1098.9	1126.2	1413.5	1793.1	2636.2	4519.5	8753.8	14691.0	15150.3	15695.6	14206.5
66°	929.1	947.9	1193.3	1480.6	2103.5	3665.9	7879.2	14537.9	15586.5	16001.7	14183.5
67.5°	719.3	744.5	950.0	1174.4	1543.5	2537.6	6342.0	13776.6	15666.2	15909.5	13782.9
70°	492.8	509.6	666.9	891.3	1054.9	1298.2	3791.8	11390.0	14214.9	14420.4	11979.3
72.5°	346.0	354.4	467.7	675.3	811.6	742.4	1881.2	8103.6	10878.2	11278.8	9317.9
75°	249.6	258.0	320.9	484.5	633.4	486.6	862.0	5175.9	6671.2	6985.8	5612.1
77.5°	180.4	190.8	218.1	312.5	459.3	341.8	423.6	2703.3	3145.8	3091.3	2413.9
80°	109.1	119.5	161.5	201.3	335.6	241.2	232.8	1128.3	1115.7	1059.1	759.2
82.5°	50.3	58.7	86.0	136.3	234.9	167.8	111.2	402.7	352.3	323.0	213.9
85°	14.7	18.9	50.3	102.8	119.5	81.8	67.1	138.4	144.7	123.7	71.3
87.5°	0.0	2.1	23.1	25.2	35.7	27.3	25.2	35.7	67.1	54.5	23.1
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: P481725

CATALOG NUMBER: IFLD-M-SA4A-750-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1692.5	1692.5	1692.5	1692.5	1692.5	1692.5	1692.5	1692.5	1692.5	1692.5	1692.5
2.5°	1709.2	1694.5	1658.9	1604.4	1556.1	1531.0	1495.3	1463.9	1447.1	1445.0	1442.9
5°	1751.2	1711.3	1625.3	1526.8	1453.4	1373.7	1319.1	1279.3	1241.6	1205.9	1226.9
7.5°	1807.8	1744.9	1604.4	1476.4	1317.1	1214.3	1117.8	1061.2	1027.6	996.2	992.0
10°	1895.9	1816.2	1589.7	1359.0	1176.5	1025.5	927.0	845.2	799.0	744.5	765.5
12.5°	2015.4	1872.8	1535.2	1252.0	1017.1	857.8	717.2	585.1	511.7	455.1	457.2
15°	2135.0	1948.3	1484.8	1122.0	872.4	662.7	457.2	367.0	346.0	333.5	337.7
17.5°	2252.4	2009.1	1407.2	989.9	706.8	421.5	333.5	314.6	304.1	291.5	291.5
20°	2395.0	2049.0	1310.8	868.2	486.6	312.5	285.2	272.6	255.9	239.1	241.2
22.5°	2533.4	2082.5	1199.6	713.1	327.2	270.5	239.1	222.3	207.6	190.8	190.8
25°	2671.9	2093.0	1054.9	511.7	264.2	216.0	186.7	163.6	148.9	134.2	136.3
27.5°	2766.2	2028.0	918.6	327.2	211.8	163.6	130.0	111.2	98.6	83.9	83.9
30°	2820.8	1908.5	771.8	230.7	159.4	111.2	77.6	58.7	46.1	35.7	33.6
32.5°	2875.3	1812.0	606.1	176.2	104.9	58.7	29.4	10.5	0.0	0.0	0.0
35°	2984.3	1702.9	406.9	98.6	35.7	2.1	0.0	0.0	0.0	0.0	0.0
37.5°	3053.5	1551.9	186.7	14.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3227.6	1476.4	46.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3510.7	1424.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3821.1	1403.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4234.3	1459.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4670.5	1612.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	5148.7	1757.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5566.0	1931.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	6333.6	2342.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	7711.5	3150.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	9263.4	3749.8	23.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	9831.7	3735.1	39.8	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	9731.1	3529.6	39.8	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	9208.9	3135.3	35.7	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	7908.6	2590.1	35.7	6.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	6029.5	2017.5	33.6	8.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	3638.7	1073.8	27.3	10.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1449.2	377.5	21.0	8.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	392.2	113.2	12.6	8.4	6.3	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	102.8	41.9	10.5	8.4	4.2	2.1	0.0	0.0	0.0	0.0	0.0
85°	39.8	16.8	8.4	6.3	6.3	4.2	2.1	0.0	0.0	0.0	0.0
87.5°	12.6	6.3	6.3	4.2	4.2	2.1	2.1	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)