

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: P476967

Luminaire Tested: **IFLD-M-SA4A-735-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476967
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-735-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

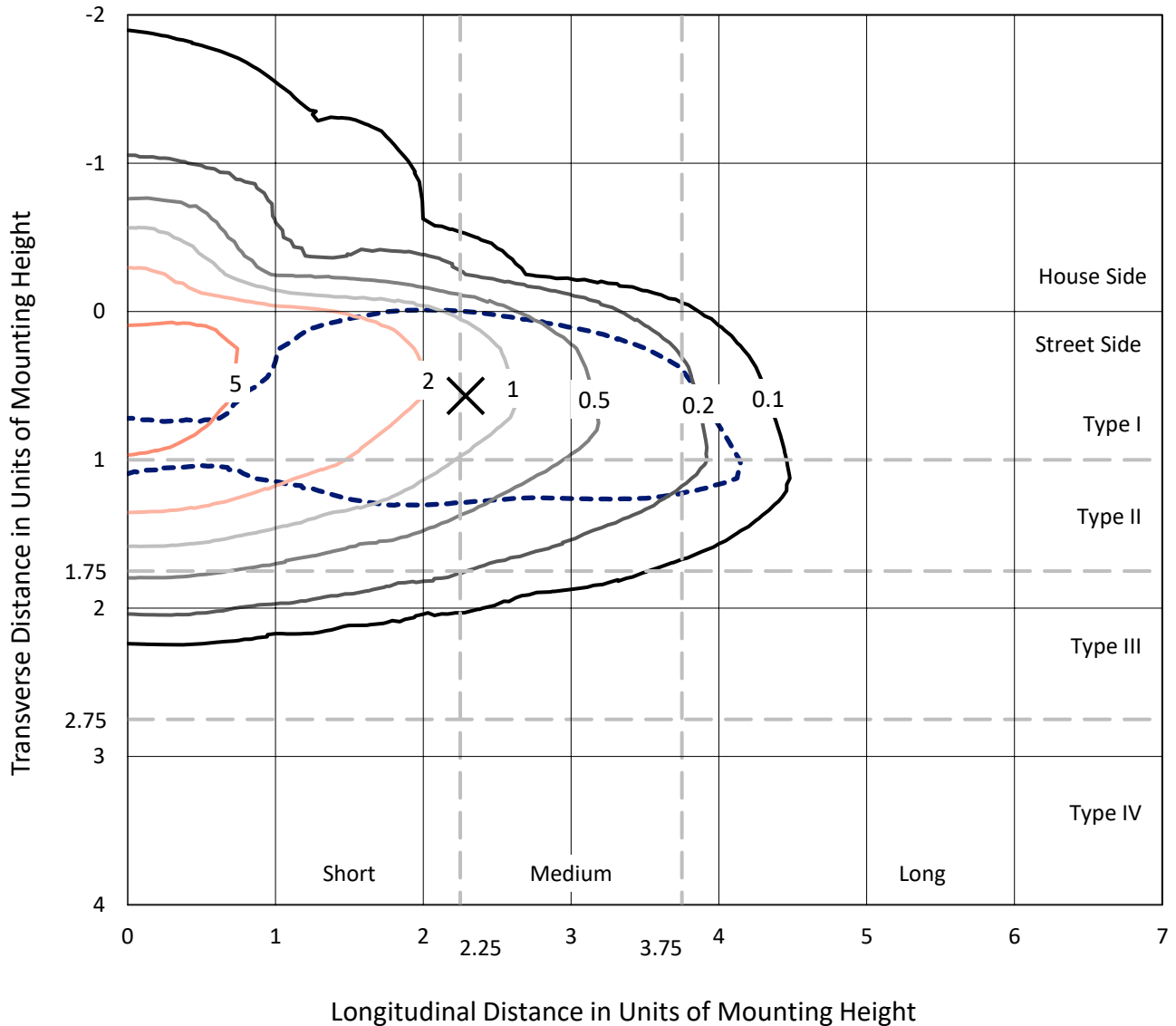
Lumens per Lamp: N/A
Luminaire Lumens: 18316.7 lumens
Efficiency: N/A
Efficacy: 142.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

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: P476967
 CATALOG NUMBER: IFLD-M-SA4A-735-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

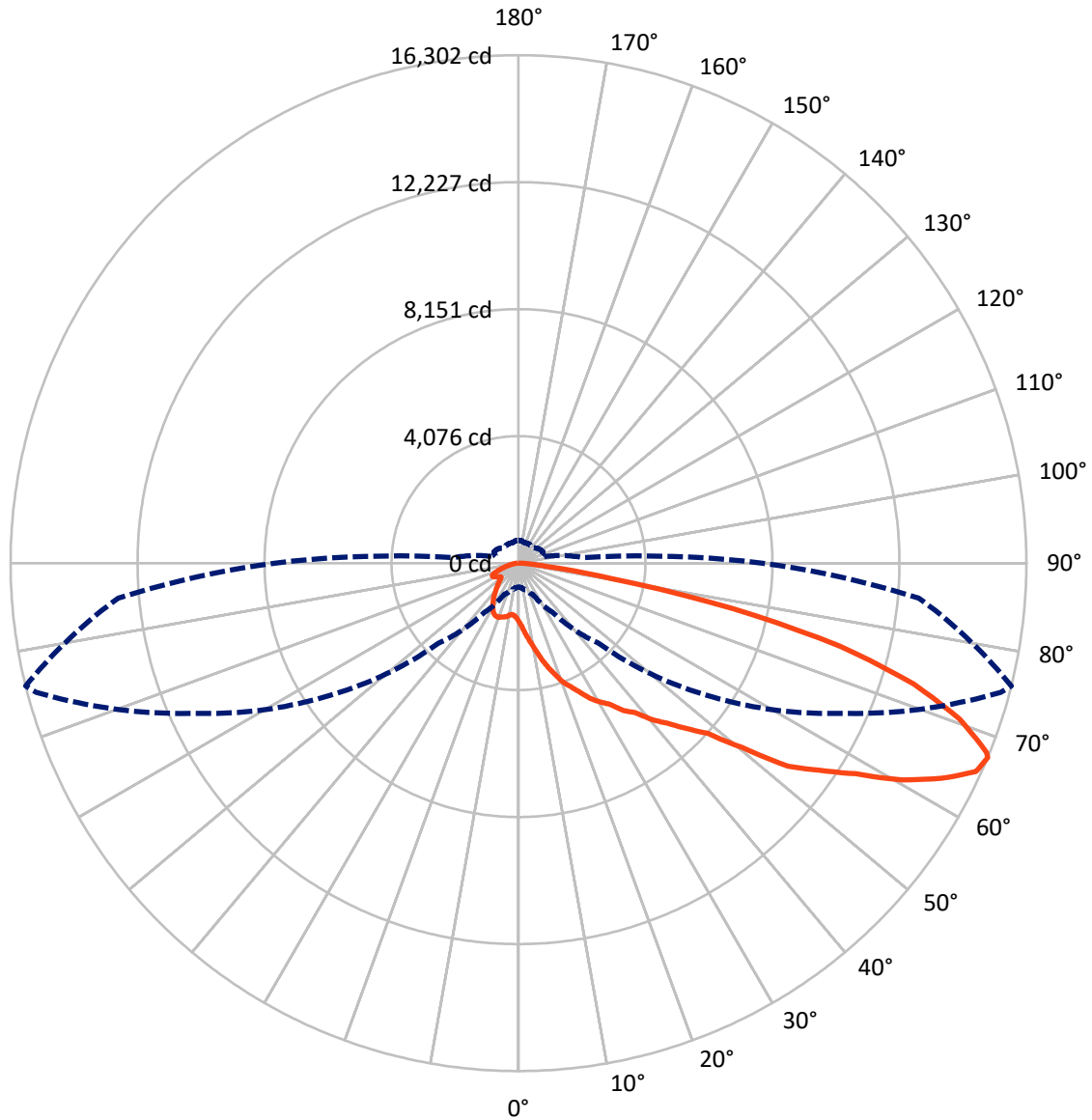
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Medium - N/A

REPORT NUMBER: P476967
CATALOG NUMBER: IFLD-M-SA4A-735-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P476967

CATALOG NUMBER: IFLD-M-SA4A-735-U-T2R

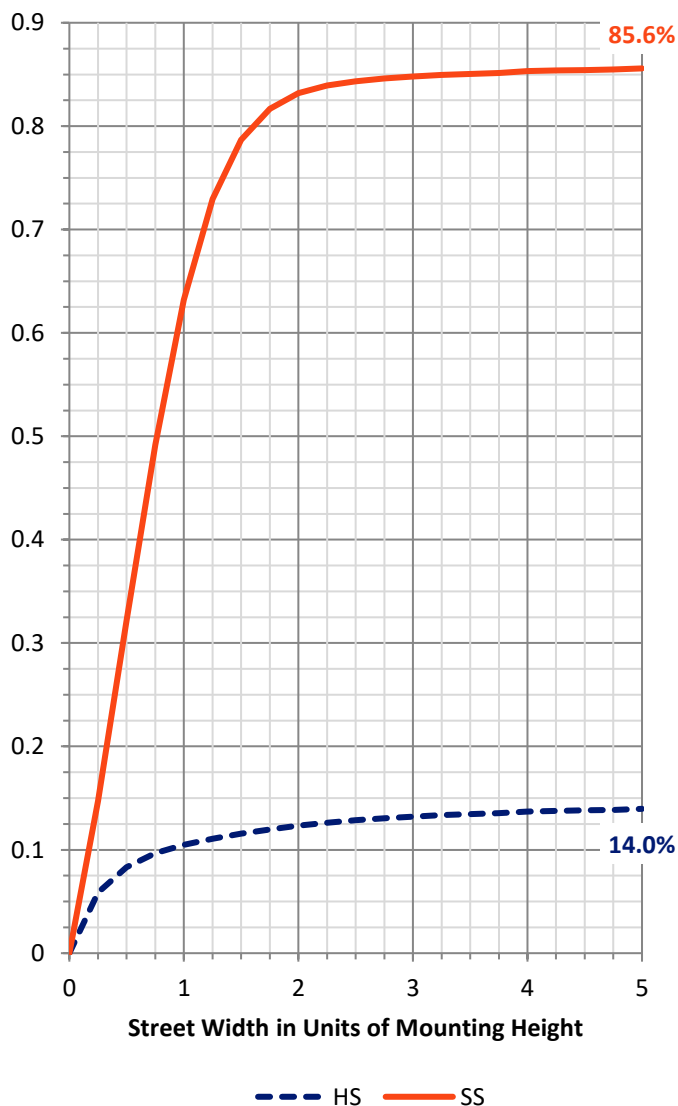
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2605.8	0.0	2605.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	15710.9	0.0	15710.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	18316.7	0.0	18316.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.1	1.2
10°-20°	814.3	4.4
20°-30°	1514.0	8.3
30°-40°	2400.0	13.1
40°-50°	3319.4	18.1
50°-60°	4083.1	22.3
60°-70°	3799.5	20.7
70°-80°	1906.5	10.4
80°-90°	262.9	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°	18316.7	100.0
0°-180°	18316.7	100.0

Coefficient of Utilization



REPORT NUMBER: P476967

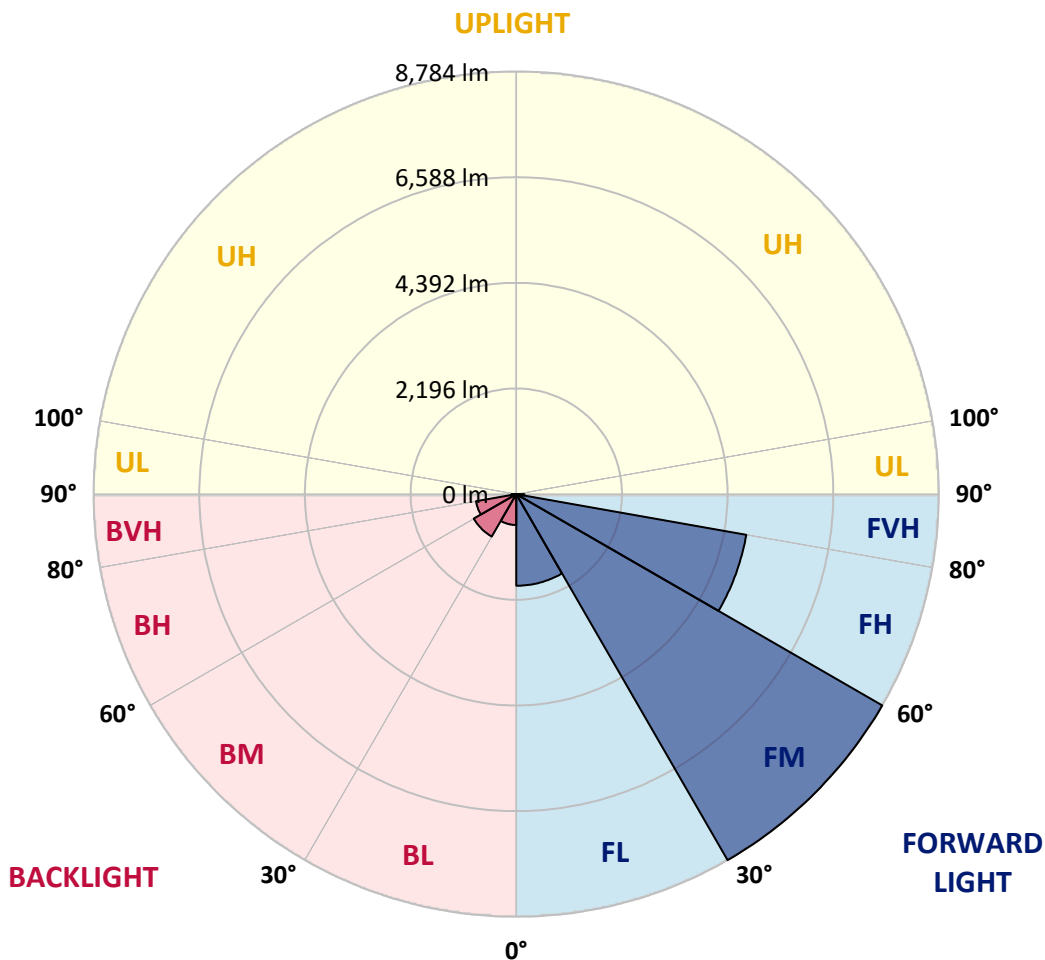
CATALOG NUMBER: IFLD-M-SA4A-735-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1903.7	10.4			
FM (30°-60°)	8784.1	48.0			
FH (60°-80°)	4855.6	26.5			G2/5000
FVH (80°-90°)	167.5	0.9			G2/225
BL (0°-30°)	641.7	3.5	B2/1000		
BM (30°-60°)	1018.3	5.6	B2/2500		
BH (60°-80°)	850.4	4.6	B2/1000		G2/1000
BVH (80°-90°)	95.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





REPORT NUMBER: P476967
 CATALOG NUMBER: IFLD-M-SA4A-735-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4
2.5°	2600.8	2569.5	2538.2	2471.4	2448.5	2385.8	2271.0	2143.7	2039.3	2024.7	1951.7
5°	3227.0	3181.1	3170.7	3133.1	3014.1	2893.1	2705.2	2500.6	2246.0	2264.8	2014.3
7.5°	3696.7	3669.6	3613.2	3577.7	3506.7	3346.0	3151.9	2880.5	2557.0	2494.4	2154.1
10°	4051.5	4014.0	4011.9	3980.6	3943.0	3778.1	3629.9	3264.6	2849.2	2763.6	2325.3
12.5°	4231.1	4224.8	4335.4	4335.4	4320.8	4251.9	3997.3	3663.3	3126.8	3097.6	2523.6
15°	4425.2	4373.0	4469.0	4542.1	4579.6	4615.1	4404.3	4051.5	3481.7	3425.3	2736.5
17.5°	4425.2	4421.0	4517.0	4638.1	4834.3	4880.2	4765.4	4408.5	3776.0	3734.3	2970.3
20°	4350.0	4410.6	4477.4	4640.2	4853.1	5038.9	5072.3	4773.8	4101.6	4068.2	3235.4
22.5°	4700.7	4642.3	4711.1	4773.8	4938.7	5220.5	5312.3	5095.2	4444.0	4316.6	3475.4
25°	5289.3	5249.7	5199.6	5107.7	5176.6	5299.8	5439.6	5333.2	4736.2	4594.3	3707.1
27.5°	5863.4	5865.4	5756.9	5556.5	5408.3	5433.4	5598.3	5541.9	4982.5	4919.9	3865.8
30°	6679.5	6629.4	6508.3	6237.0	5946.9	5708.9	5681.8	5736.0	5295.6	5174.5	4093.3
32.5°	7291.1	7301.5	7130.4	6740.0	6343.4	6149.3	5911.4	5934.3	5493.9	5404.1	4274.9
35°	7785.8	7773.3	7652.2	7328.7	6859.0	6625.2	6303.8	6172.3	5955.2	5813.3	4552.5
37.5°	8320.2	8217.9	8021.7	7656.4	7355.8	7032.3	6719.2	6422.8	6262.0	6090.9	4790.5
40°	8535.2	8535.2	8272.2	8105.2	7748.2	7504.0	7301.5	6752.6	6635.7	6602.3	5095.2
42.5°	8382.8	8476.7	8368.2	8178.2	8032.1	7723.2	7668.9	7094.9	7097.0	7030.2	5460.5
45°	8368.2	8238.8	8149.0	8197.0	8128.1	8111.4	8249.2	7568.7	7581.2	7572.9	5951.0
47.5°	7948.6	7890.2	8023.8	8103.1	8159.4	8418.3	8814.9	8134.4	8224.1	8161.5	6516.7
50°	7531.1	7520.7	7604.2	7892.3	8136.5	8562.3	9353.4	9006.9	9301.2	9297.0	7541.6
52.5°	6387.3	6497.9	6825.6	7435.1	8038.4	8758.5	9760.4	10121.5	10683.0	10835.4	8391.1
55°	5293.5	5235.1	5719.3	6604.4	7610.5	8835.7	10215.5	10791.6	11618.2	11728.8	9263.6
57.5°	4118.3	4226.9	4608.9	5458.4	6725.4	8453.8	10549.5	11453.3	12674.4	12760.0	10276.0
60°	3072.6	3087.2	3506.7	4191.4	5548.2	7591.7	10658.0	12131.7	13885.0	14129.3	11336.4
62.5°	1932.9	2020.6	2339.9	3014.1	4176.8	6385.2	10171.6	12542.9	15154.1	15218.8	12405.1
65°	1041.6	1097.9	1338.0	1761.7	2918.1	4830.1	8881.7	12296.6	15751.1	16135.2	12881.0
67°	770.2	780.7	891.3	1125.1	1951.7	3636.2	7405.9	11405.3	16022.5	16302.2	12899.8
67.5°	722.2	736.8	824.5	1010.3	1730.4	3348.1	7019.7	11088.0	15901.4	16202.0	12753.7
70°	617.9	622.0	642.9	695.1	970.6	2014.3	4780.0	9086.2	14738.8	15026.8	11728.8
72.5°	549.0	553.1	561.5	571.9	657.5	1164.7	2907.7	6992.6	12810.0	13269.3	10119.5
75°	482.2	496.8	501.0	492.6	559.4	757.7	1546.7	5139.0	10449.3	10672.6	7869.3
77.5°	409.1	415.4	423.7	432.1	498.9	565.7	743.1	3469.2	7172.1	7036.4	4256.1
80°	344.4	346.5	352.8	359.0	432.1	432.1	421.6	1874.4	3133.1	2995.3	1438.2
82.5°	246.3	260.9	275.5	292.2	359.0	290.1	275.5	834.9	991.5	943.5	486.4
85°	96.0	116.9	181.6	200.4	227.5	156.6	183.7	361.1	413.3	409.1	181.6
87.5°	16.7	18.8	50.1	77.2	83.5	54.3	87.7	129.4	154.5	167.0	66.8
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: P476967
 CATALOG NUMBER: IFLD-M-SA4A-735-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4	1874.4
2.5°	1891.1	1826.4	1749.2	1672.0	1621.9	1542.5	1536.3	1488.3	1482.0	1465.3	1473.7
5°	1905.7	1828.5	1672.0	1548.8	1492.5	1446.5	1457.0	1436.1	1429.8	1419.4	1402.7
7.5°	2020.6	1868.2	1634.4	1527.9	1486.2	1465.3	1465.3	1440.3	1421.5	1434.0	1446.5
10°	2095.7	1887.0	1663.6	1557.2	1523.8	1477.8	1494.5	1463.2	1473.7	1448.6	1448.6
12.5°	2216.8	1993.4	1724.1	1601.0	1546.7	1505.0	1521.7	1486.2	1477.8	1479.9	1473.7
15°	2379.6	2064.4	1751.3	1626.0	1588.5	1536.3	1523.8	1492.5	1461.1	1450.7	1463.2
17.5°	2532.0	2152.1	1770.1	1640.7	1580.1	1521.7	1507.1	1467.4	1457.0	1425.7	1400.6
20°	2713.6	2256.4	1795.1	1653.2	1548.8	1490.4	1452.8	1413.1	1377.6	1358.9	1367.2
22.5°	2834.6	2310.7	1807.6	1628.1	1502.9	1448.6	1369.3	1342.2	1292.1	1271.2	1254.5
25°	3032.9	2377.5	1776.3	1559.2	1421.5	1333.8	1262.8	1225.3	1189.8	1162.7	1154.3
27.5°	3083.0	2427.6	1703.3	1442.4	1292.1	1200.2	1139.7	1093.8	1070.8	1029.1	1020.7
30°	3229.1	2377.5	1594.7	1300.4	1168.9	1075.0	1014.5	981.1	926.8	916.3	893.4
32.5°	3323.1	2392.1	1457.0	1162.7	1027.0	943.5	903.8	870.4	855.8	805.7	793.2
35°	3479.6	2342.0	1317.1	1035.3	910.1	845.4	812.0	801.5	753.5	730.6	709.7
37.5°	3579.8	2312.8	1177.3	891.3	782.8	755.6	766.1	722.2	663.8	619.9	605.3
40°	3755.1	2302.3	1018.6	772.3	695.1	688.8	722.2	638.7	532.3	494.7	473.8
42.5°	4007.7	2231.4	895.5	665.9	626.2	653.3	659.6	532.3	471.7	440.4	425.8
45°	4249.8	2246.0	774.4	551.1	544.8	584.5	569.8	450.9	415.4	392.4	404.9
47.5°	4715.3	2319.0	655.4	459.2	490.5	528.1	442.5	402.9	369.5	352.8	354.8
50°	5435.5	2390.0	551.1	419.6	463.4	478.0	379.9	365.3	363.2	329.8	327.7
52.5°	5867.5	2362.9	532.3	469.7	496.8	478.0	413.3	402.9	386.2	371.5	354.8
55°	6554.3	2442.2	571.9	549.0	563.6	459.2	463.4	459.2	446.7	409.1	419.6
57.5°	7101.2	2494.4	624.1	613.7	605.3	478.0	484.3	486.4	478.0	461.3	475.9
60°	7852.6	2598.7	678.4	680.5	682.6	519.7	530.2	542.7	540.6	534.4	538.5
62.5°	8313.9	2550.7	738.9	772.3	761.9	605.3	603.2	611.6	611.6	622.0	628.3
65°	8245.0	2373.3	770.2	853.7	799.5	668.0	668.0	672.1	674.2	695.1	697.2
67°	7831.7	2056.0	753.5	866.2	799.5	693.0	693.0	697.2	682.6	736.8	720.1
67.5°	7639.7	1962.1	738.9	855.8	793.2	690.9	690.9	693.0	680.5	732.7	716.0
70°	6644.0	1457.0	636.6	757.7	734.7	672.1	672.1	659.6	649.2	718.0	703.4
72.5°	5671.3	1058.3	511.4	645.0	663.8	647.1	651.3	619.9	590.7	638.7	626.2
75°	4343.8	778.6	398.7	496.8	561.5	605.3	632.5	553.1	515.6	528.1	505.1
77.5°	2423.4	507.2	315.2	367.4	427.9	563.6	607.4	498.9	421.6	407.0	407.0
80°	822.4	296.4	231.7	273.4	294.3	498.9	567.8	404.9	331.9	317.3	306.8
82.5°	311.0	181.6	158.6	187.9	187.9	394.5	463.4	311.0	250.5	323.5	329.8
85°	141.9	108.5	104.4	108.5	108.5	242.1	327.7	202.5	225.4	194.1	171.2
87.5°	56.4	52.2	48.0	45.9	37.6	41.7	112.7	54.3	102.3	27.1	25.0
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)