

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: McGRAW-EDISON

Report Number: P595380

Luminaire Tested: **IST-PA1F-740-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595380
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1F-740-U-T2R
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11338 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

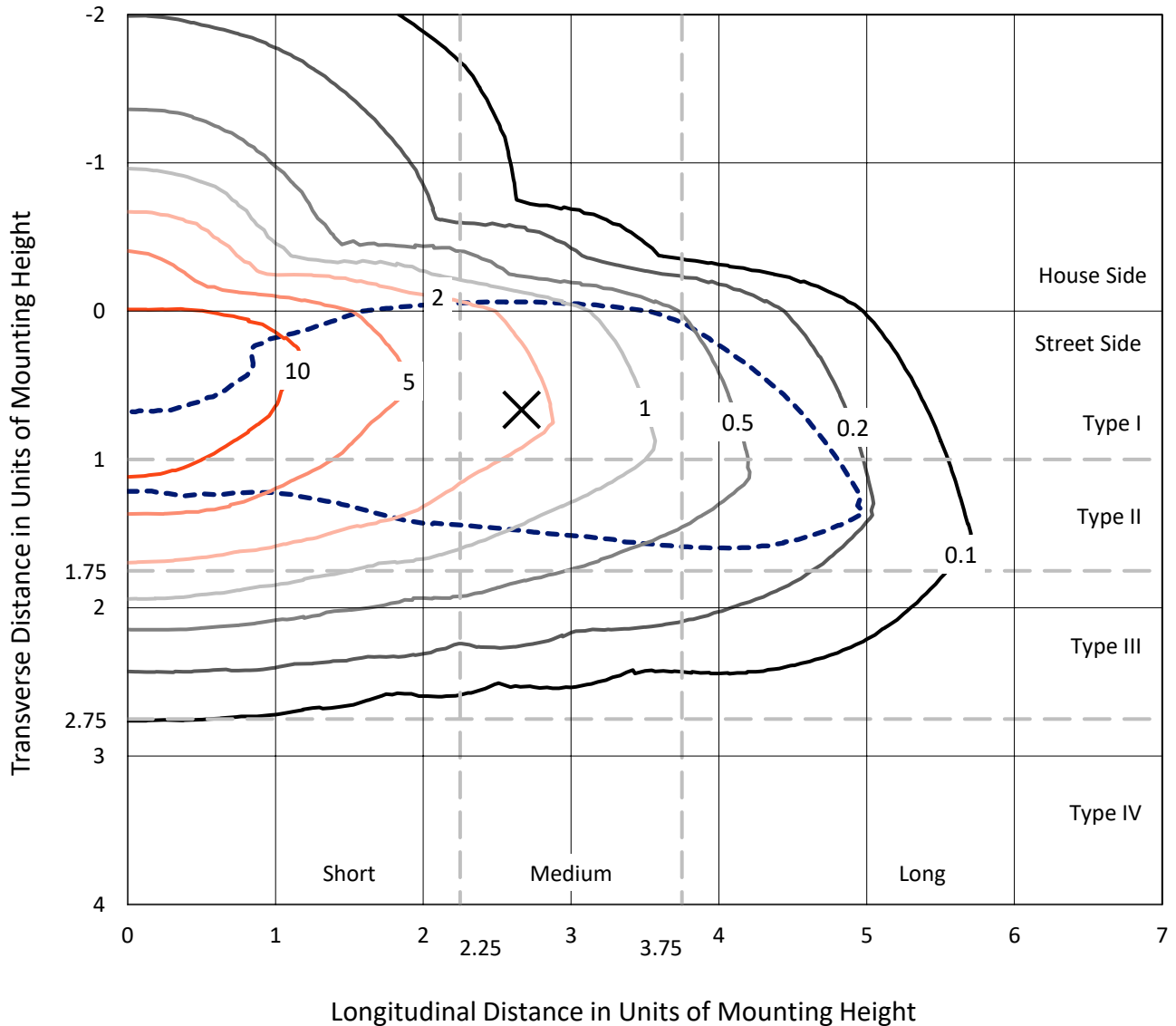
Input Watts (W): 93.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

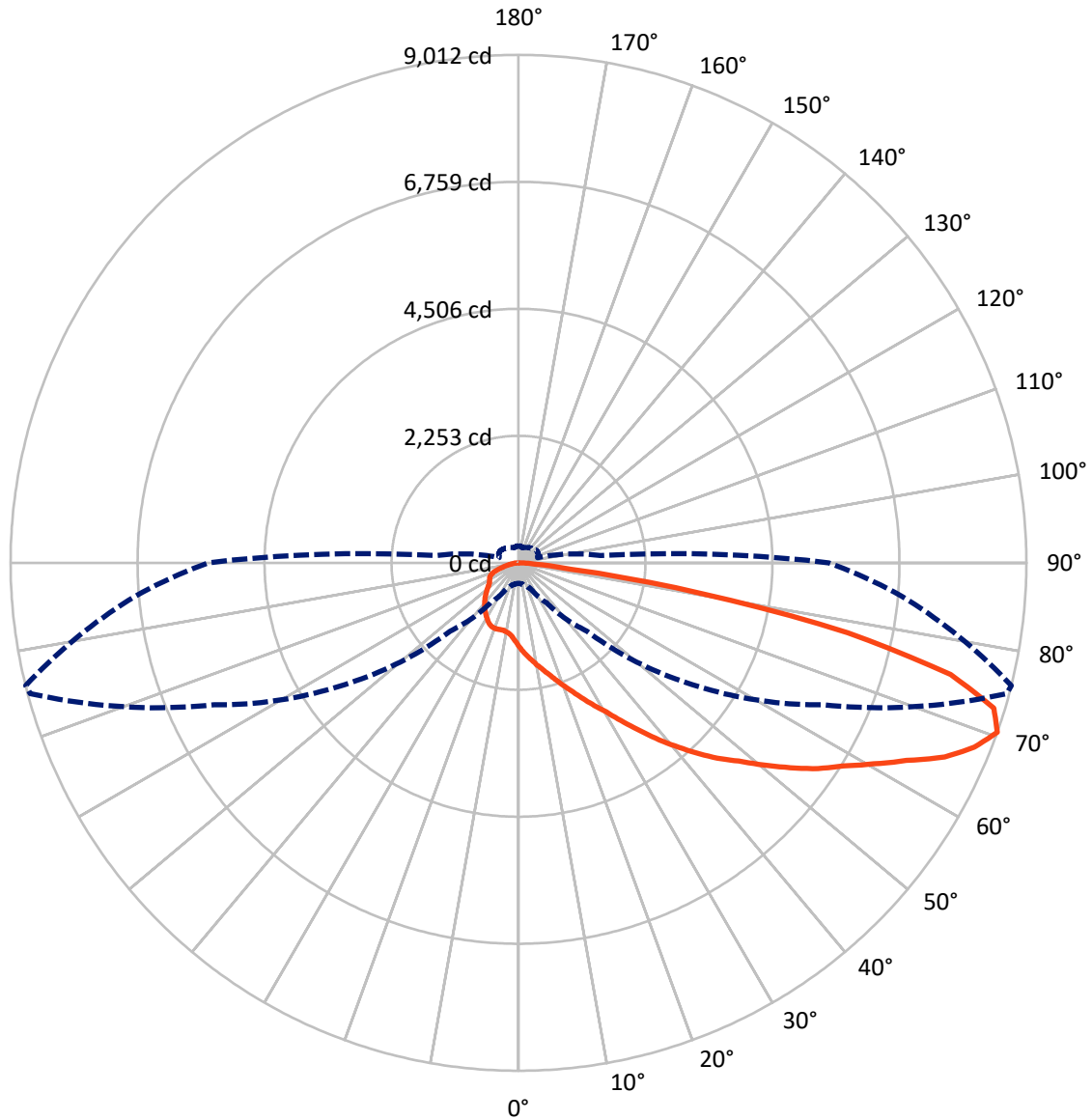
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 17.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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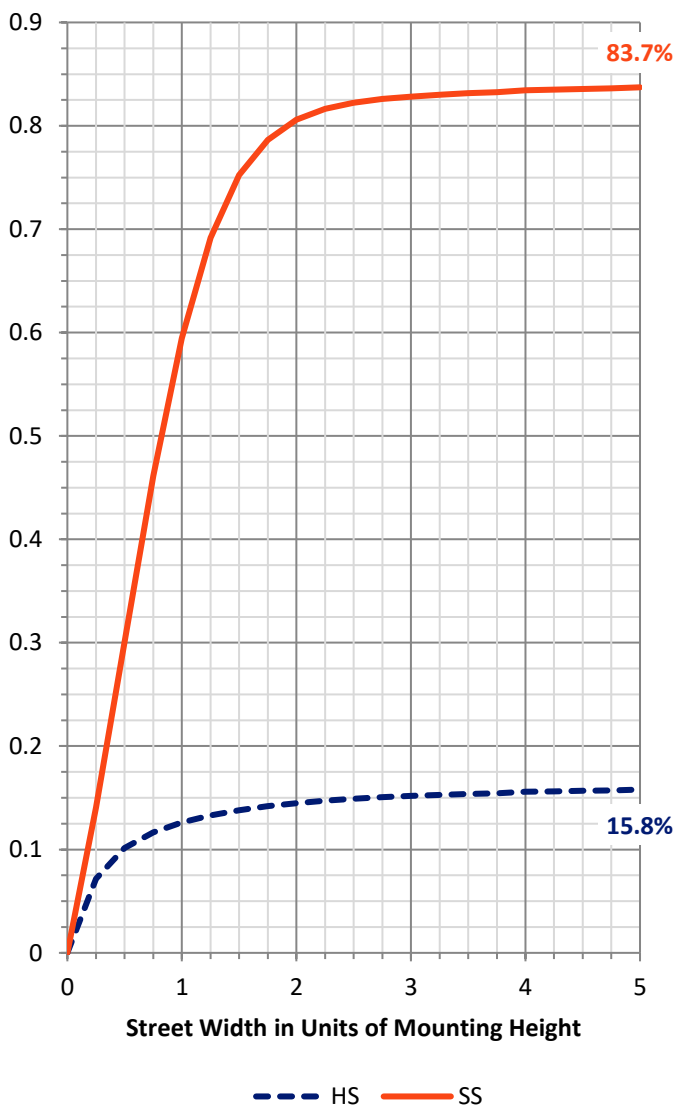
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1818.5	0.0	1818.5
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	9519.5	0.0	9519.5
	% Fixture	84.0	0.0	84.0
Total	Lumens	11338.0	0.0	11338.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.0	1.3
10°-20°	478.4	4.2
20°-30°	881.6	7.8
30°-40°	1477.0	13.0
40°-50°	2098.8	18.5
50°-60°	2423.2	21.4
60°-70°	2227.6	19.6
70°-80°	1404.6	12.4
80°-90°	202.0	1.8
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°	11338.0	100.0
0°-180°	11338.0	100.0

Coefficient of Utilization

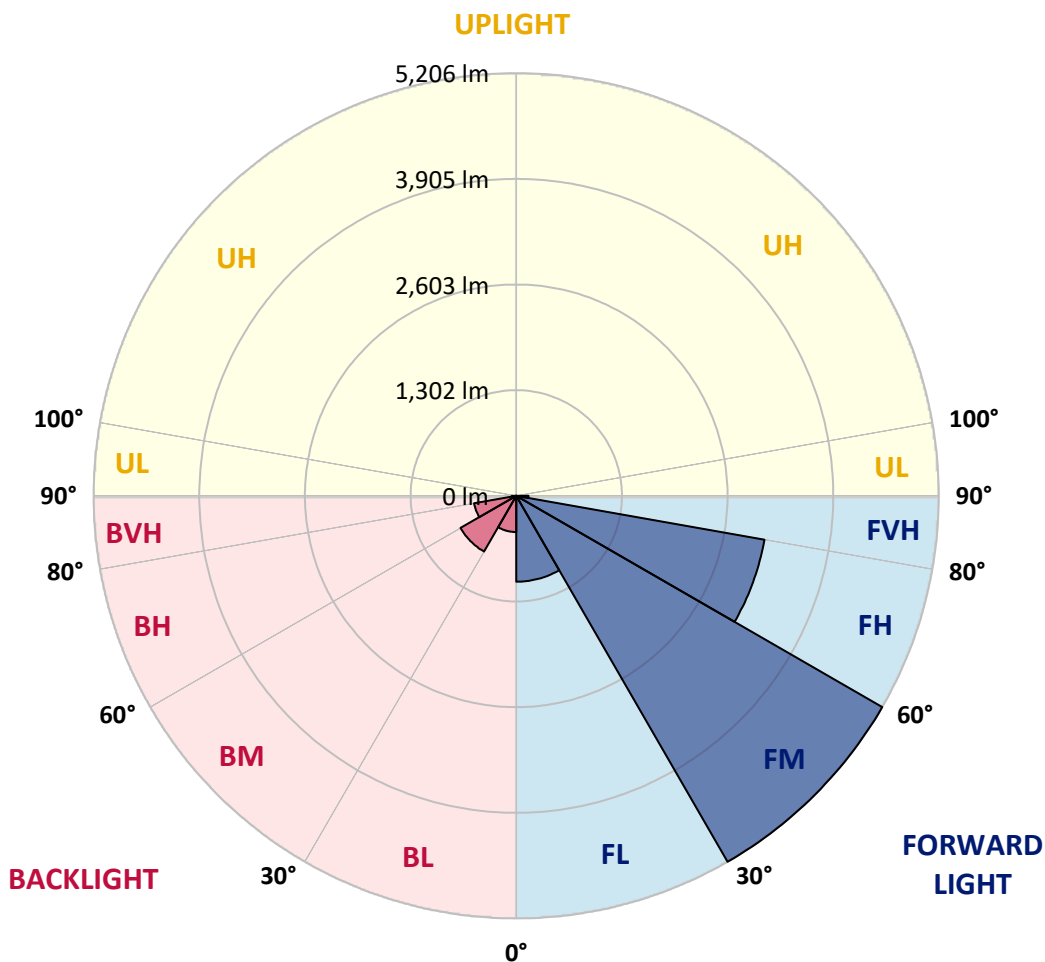


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1058.5	9.3			
FM (30°-60°)	5206.1	45.9			
FH (60°-80°)	3105.1	27.4			G2/5000
FVH (80°-90°)	149.7	1.3			G2/225
BL (0°-30°)	446.4	3.9	B1/500		
BM (30°-60°)	792.8	7.0	B1/1000		
BH (60°-80°)	527.1	4.6	B2/1000		G2/1000
BVH (80°-90°)	52.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1487.4	1487.4	1487.4	1487.4	1487.4	1487.4	1487.4	1487.4	1487.4	1487.4	1487.4
2.5°	1790.3	1787.6	1779.4	1765.7	1754.8	1722.1	1678.4	1640.2	1582.9	1577.4	1520.1
5°	1951.3	1940.4	1940.4	1926.8	1913.1	1877.6	1823.1	1754.8	1673.0	1667.5	1558.3
7.5°	2027.7	2030.5	2025.0	2014.1	2016.8	1986.8	1937.7	1869.5	1757.6	1752.1	1610.2
10°	2136.9	2134.2	2123.3	2115.1	2112.3	2085.1	2041.4	1978.6	1861.3	1850.4	1670.2
12.5°	2243.3	2235.2	2237.9	2235.2	2229.7	2202.4	2161.5	2098.7	1954.1	1948.6	1743.9
15°	2303.4	2300.7	2319.8	2325.2	2347.1	2322.5	2287.0	2216.1	2085.1	2063.2	1831.2
17.5°	2341.6	2338.9	2358.0	2401.6	2442.6	2442.6	2431.7	2355.2	2210.6	2194.2	1929.5
20°	2407.1	2418.0	2450.8	2486.2	2546.3	2557.2	2554.5	2521.7	2355.2	2338.9	2038.7
22.5°	2538.1	2532.6	2559.9	2614.5	2669.1	2685.5	2688.2	2688.2	2521.7	2491.7	2150.6
25°	2819.2	2805.5	2783.7	2778.3	2843.8	2841.0	2832.8	2851.9	2696.4	2674.5	2278.8
27.5°	3354.1	3324.1	3239.5	3070.3	3032.1	3045.7	3004.8	3007.5	2895.6	2868.3	2388.0
30°	3861.7	3848.1	3768.9	3564.2	3348.6	3272.2	3201.3	3171.3	3116.7	3070.3	2505.3
32.5°	4320.2	4322.9	4227.4	4003.6	3782.6	3542.4	3419.6	3356.8	3378.7	3337.7	2666.4
35°	4631.3	4606.8	4546.7	4396.6	4156.5	3927.2	3692.5	3553.3	3670.7	3624.3	2827.4
37.5°	4814.2	4795.1	4746.0	4639.5	4519.4	4298.4	4000.9	3788.0	4017.3	3949.1	3032.1
40°	4907.0	4879.7	4830.6	4786.9	4729.6	4609.5	4347.5	4055.5	4333.9	4273.8	3234.0
42.5°	4917.9	4898.8	4871.5	4849.7	4868.8	4852.4	4685.9	4366.6	4666.8	4601.3	3466.0
45°	4909.7	4923.4	4890.6	4852.4	4890.6	5029.8	5029.8	4677.7	4997.0	4947.9	3687.1
47.5°	4915.2	4901.5	4890.6	4879.7	4885.1	5076.2	5267.2	4969.7	5313.6	5256.3	3946.3
50°	4688.6	4707.8	4800.5	4841.5	4866.0	5087.1	5458.3	5286.3	5706.6	5635.7	4235.6
52.5°	3968.2	3979.1	4402.1	4707.8	4806.0	5043.4	5592.0	5638.4	6094.1	6039.6	4546.7
55°	3056.6	3113.9	3515.1	4262.9	4669.5	4969.7	5632.9	5867.6	6489.9	6446.2	4860.6
57.5°	2516.3	2524.4	2756.4	3425.1	4238.3	4901.5	5673.9	6077.8	6844.7	6795.5	5188.1
60°	2087.8	2068.7	2210.6	2641.8	3520.6	4628.6	5682.1	6244.3	7256.8	7240.4	5526.5
62.5°	1533.8	1555.6	1692.1	2057.8	2753.7	4074.6	5641.1	6386.2	7748.0	7726.2	5903.1
65°	941.6	968.8	1135.3	1471.0	2085.1	3234.0	5373.7	6459.9	8263.8	8312.9	6309.8
67.5°	499.4	518.5	616.8	889.7	1430.1	2464.4	4729.6	6367.1	8700.5	8722.3	6700.0
70°	365.7	368.4	401.2	502.2	862.4	1713.9	3766.2	5963.2	8967.9	9011.6	6828.3
72.5°	319.3	322.0	335.7	360.2	469.4	1045.3	2699.1	5259.0	8856.0	8817.8	6612.7
75°	289.3	289.3	300.2	308.4	343.9	578.6	1653.9	4303.8	8001.8	7917.2	5638.4
77.5°	248.4	248.4	259.3	270.2	297.5	373.9	865.1	3190.4	6118.7	5974.1	3856.3
80°	199.2	199.2	212.9	226.5	262.0	281.1	423.0	2134.2	3498.7	3285.9	1754.8
82.5°	136.5	147.4	171.9	188.3	218.3	199.2	248.4	922.4	1102.6	955.2	395.7
85°	81.9	87.3	122.8	141.9	163.7	106.4	152.8	354.8	330.2	289.3	90.1
87.5°	8.2	13.6	49.1	57.3	57.3	30.0	65.5	84.6	95.5	98.2	21.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1487.4	1487.4	1487.4	1487.4	1487.4	1487.4	1487.4	1487.4	1487.4	1487.4	1487.4
2.5°	1487.4	1454.6	1391.9	1334.5	1277.2	1239.0	1200.8	1187.2	1168.1	1154.4	1165.3
5°	1501.0	1432.8	1312.7	1211.7	1143.5	1091.7	1067.1	1053.4	1042.5	1039.8	1037.1
7.5°	1517.4	1416.4	1255.4	1143.5	1078.0	1053.4	1048.0	1048.0	1048.0	1050.7	1053.4
10°	1552.9	1421.9	1225.4	1105.3	1069.8	1064.4	1067.1	1078.0	1078.0	1080.7	1080.7
12.5°	1593.8	1435.5	1203.5	1099.8	1078.0	1080.7	1083.5	1088.9	1088.9	1097.1	1094.4
15°	1653.9	1462.8	1200.8	1105.3	1086.2	1080.7	1080.7	1078.0	1078.0	1078.0	1083.5
17.5°	1730.3	1501.0	1203.5	1105.3	1078.0	1067.1	1058.9	1050.7	1039.8	1045.3	1039.8
20°	1806.7	1547.4	1203.5	1091.7	1056.2	1028.9	1004.3	990.7	977.0	974.3	977.0
22.5°	1902.2	1602.0	1189.9	1061.6	1009.8	971.6	936.1	917.0	895.2	887.0	881.5
25°	1984.1	1645.7	1162.6	1018.0	957.9	903.3	856.9	824.2	796.9	791.4	791.4
27.5°	2068.7	1683.9	1121.7	963.4	884.2	824.2	772.3	731.4	704.1	701.4	698.7
30°	2147.8	1716.6	1067.1	903.3	818.7	747.8	687.7	652.3	627.7	614.1	605.9
32.5°	2251.5	1760.3	1015.2	843.3	742.3	671.4	616.8	586.8	554.0	532.2	524.0
35°	2382.5	1812.1	957.9	777.8	674.1	603.1	570.4	526.7	485.8	461.2	453.0
37.5°	2529.9	1885.8	897.9	709.6	605.9	554.0	534.9	466.7	423.0	414.8	412.1
40°	2712.8	1956.8	829.7	638.6	540.4	526.7	494.0	423.0	401.2	398.5	395.7
42.5°	2895.6	2033.2	764.2	567.7	488.5	494.0	447.6	412.1	393.0	387.5	384.8
45°	3108.5	2109.6	698.7	504.9	447.6	447.6	423.0	401.2	384.8	379.3	379.3
47.5°	3332.3	2186.0	627.7	450.3	417.6	401.2	403.9	387.5	376.6	371.2	368.4
50°	3613.4	2259.7	562.2	412.1	398.5	376.6	384.8	373.9	368.4	363.0	360.2
52.5°	3878.1	2292.5	502.2	390.3	387.5	365.7	368.4	363.0	360.2	352.1	349.3
55°	4137.4	2284.3	455.8	379.3	373.9	363.0	357.5	354.8	352.1	343.9	341.1
57.5°	4426.7	2273.4	425.7	376.6	365.7	354.8	354.8	346.6	335.7	335.7	335.7
60°	4726.9	2237.9	412.1	376.6	363.0	354.8	349.3	341.1	330.2	333.0	330.2
62.5°	5065.3	2169.7	403.9	384.8	365.7	352.1	346.6	335.7	322.0	324.8	322.0
65°	5362.7	2030.5	398.5	393.0	371.2	354.8	341.1	327.5	311.1	313.9	311.1
67.5°	5564.7	1795.8	382.1	398.5	379.3	352.1	335.7	316.6	294.7	305.7	302.9
70°	5507.4	1460.1	352.1	387.5	387.5	354.8	327.5	302.9	278.4	300.2	292.0
72.5°	5062.5	1097.1	294.7	349.3	382.1	354.8	311.1	281.1	259.3	272.9	256.5
75°	4156.5	745.1	234.7	278.4	357.5	357.5	297.5	259.3	232.0	223.8	218.3
77.5°	2592.7	464.0	182.9	204.7	300.2	354.8	283.8	232.0	193.8	188.3	182.9
80°	1026.2	248.4	144.6	147.4	221.1	324.8	264.7	196.5	155.6	150.1	139.2
82.5°	234.7	125.5	101.0	98.2	136.5	264.7	240.2	155.6	120.1	120.1	101.0
85°	71.0	65.5	65.5	62.8	68.2	136.5	185.6	106.4	81.9	57.3	49.1
87.5°	19.1	27.3	24.6	21.8	21.8	19.1	60.0	27.3	16.4	8.2	5.5
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)