

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: P595416

Luminaire Tested: **IST-PA1F-830-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595416
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-830-U-T2R
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 3000K, 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: 9010 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

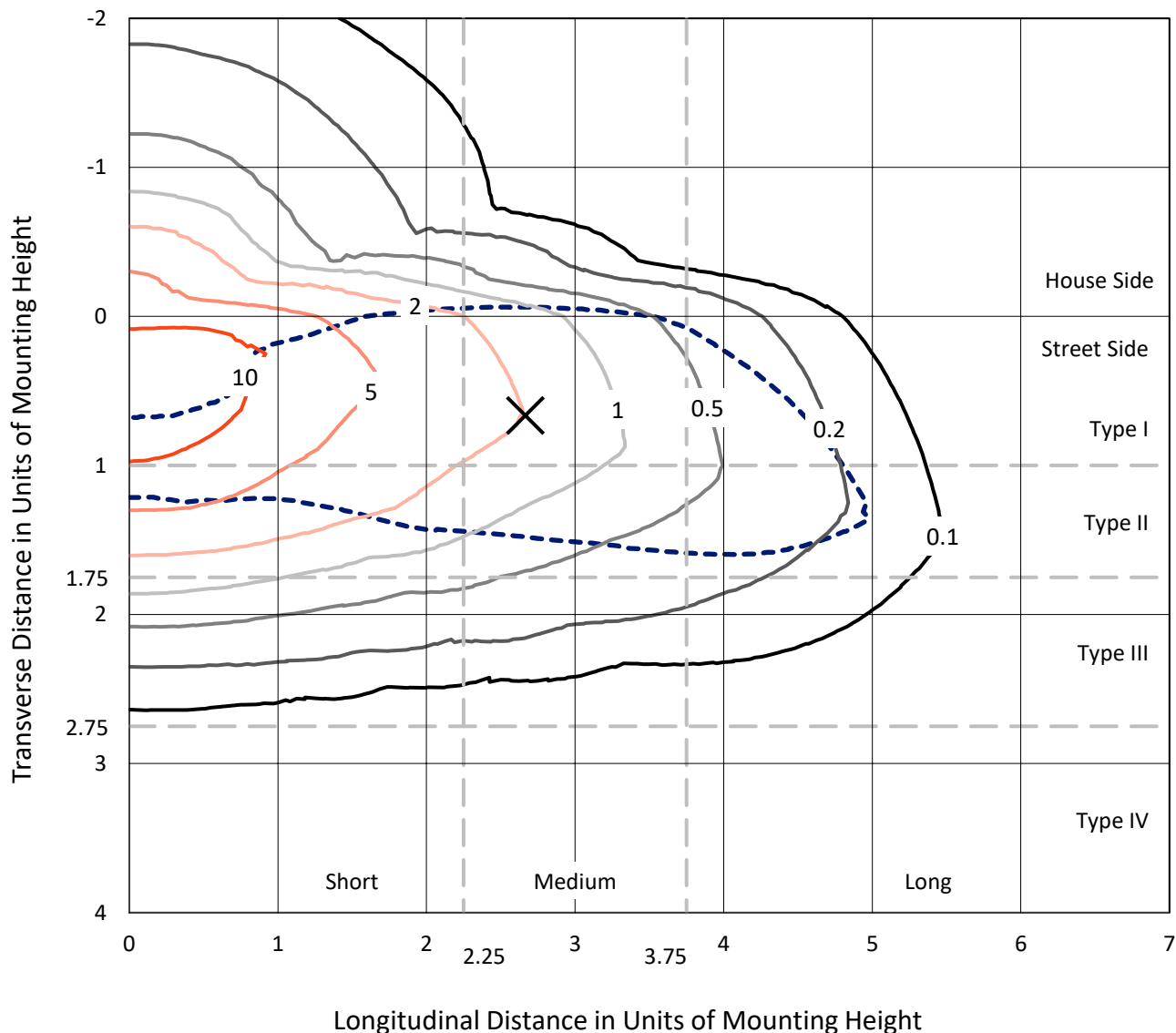
Input Watts (W): 93.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

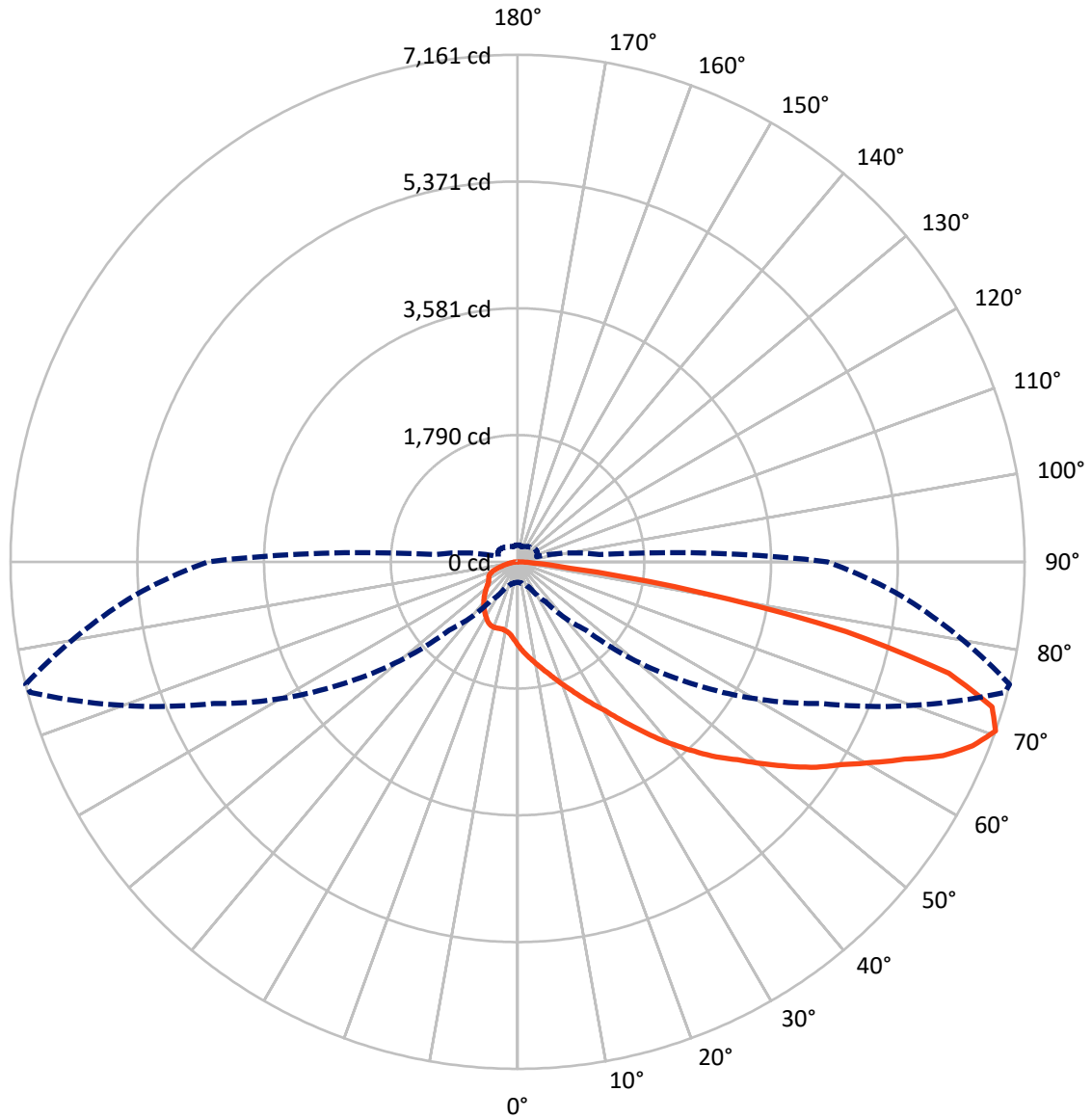
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 14.2 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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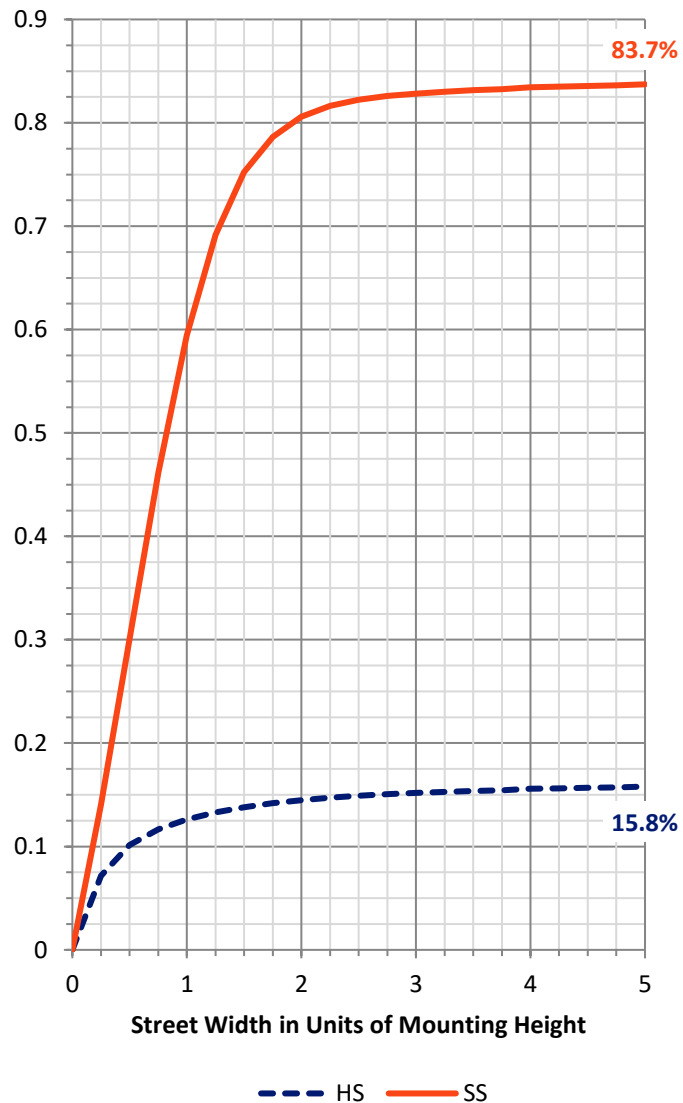
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1445.1	0.0	1445.1
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	7564.9	0.0	7564.9
	% Fixture	84.0	0.0	84.0
Total	Lumens	9010.0	0.0	9010.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.2	1.3
10°-20°	380.1	4.2
20°-30°	700.6	7.8
30°-40°	1173.8	13.0
40°-50°	1667.8	18.5
50°-60°	1925.6	21.4
60°-70°	1770.2	19.6
70°-80°	1116.2	12.4
80°-90°	160.5	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°	9010.0	100.0
0°-180°	9010.0	100.0

Coefficient of Utilization

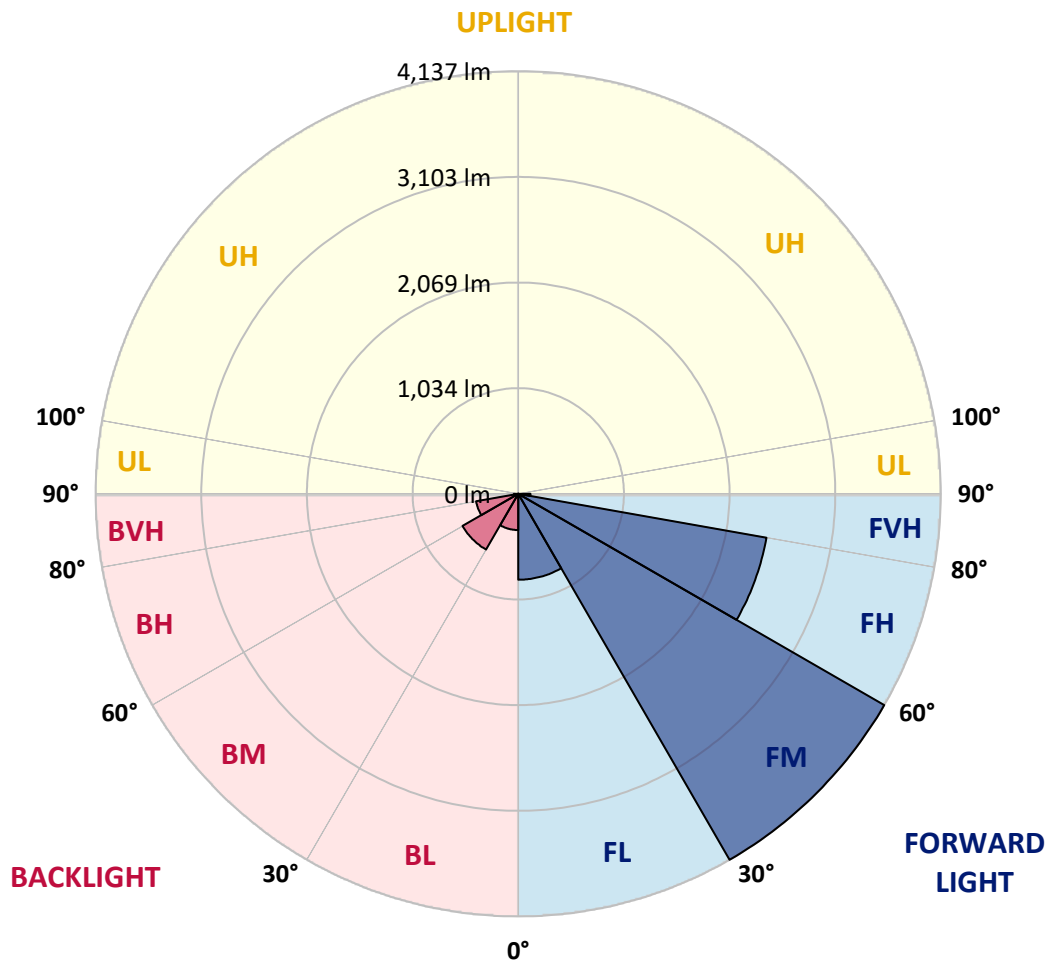


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	841.2	9.3			
FM (30°-60°)	4137.2	45.9			
FH (60°-80°)	2467.5	27.4			G2/5000
FVH (80°-90°)	119.0	1.3			G2/225
BL (0°-30°)	354.7	3.9	B1/500		
BM (30°-60°)	630.0	7.0	B1/1000		
BH (60°-80°)	418.8	4.6	B1/500		G1/500
BVH (80°-90°)	41.5	0.5			G1/100
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1182.0	1182.0	1182.0	1182.0	1182.0	1182.0	1182.0	1182.0	1182.0	1182.0	1182.0
2.5°	1422.7	1420.5	1414.0	1403.2	1394.5	1368.5	1333.8	1303.4	1257.9	1253.5	1208.0
5°	1550.7	1542.0	1542.0	1531.1	1520.3	1492.1	1448.7	1394.5	1329.5	1325.1	1238.4
7.5°	1611.4	1613.6	1609.2	1600.5	1602.7	1578.9	1539.8	1485.6	1396.7	1392.3	1279.6
10°	1698.1	1696.0	1687.3	1680.8	1678.6	1656.9	1622.2	1572.4	1479.1	1470.4	1327.3
12.5°	1782.7	1776.2	1778.4	1776.2	1771.9	1750.2	1717.7	1667.8	1552.8	1548.5	1385.8
15°	1830.4	1828.3	1843.5	1847.8	1865.1	1845.6	1817.4	1761.0	1656.9	1639.6	1455.2
17.5°	1860.8	1858.6	1873.8	1908.5	1941.0	1941.0	1932.4	1871.6	1756.7	1743.7	1533.3
20°	1912.9	1921.5	1947.6	1975.7	2023.5	2032.1	2030.0	2003.9	1871.6	1858.6	1620.1
22.5°	2017.0	2012.6	2034.3	2077.7	2121.1	2134.1	2136.2	2136.2	2003.9	1980.1	1709.0
25°	2240.3	2229.5	2212.1	2207.8	2259.9	2257.7	2251.2	2266.4	2142.7	2125.4	1810.9
27.5°	2665.4	2641.6	2574.3	2439.9	2409.5	2420.3	2387.8	2390.0	2301.1	2279.4	1897.7
30°	3068.8	3058.0	2995.1	2832.4	2661.1	2600.4	2544.0	2520.1	2476.7	2439.9	1990.9
32.5°	3433.2	3435.3	3359.4	3181.6	3005.9	2815.1	2717.5	2667.6	2684.9	2652.4	2118.9
35°	3680.4	3660.9	3613.2	3493.9	3303.0	3120.9	2934.3	2823.7	2917.0	2880.1	2246.8
37.5°	3825.7	3810.5	3771.5	3686.9	3591.5	3415.8	3179.4	3010.2	3192.4	3138.2	2409.5
40°	3899.4	3877.8	3838.7	3804.0	3758.5	3663.0	3454.8	3222.8	3444.0	3396.3	2570.0
42.5°	3908.1	3892.9	3871.2	3853.9	3869.1	3856.1	3723.8	3470.0	3708.6	3656.5	2754.3
45°	3901.6	3912.5	3886.4	3856.1	3886.4	3997.0	3997.0	3717.3	3971.0	3932.0	2930.0
47.5°	3905.9	3895.1	3886.4	3877.8	3882.1	4033.9	4185.7	3949.3	4222.6	4177.0	3136.0
50°	3725.9	3741.1	3814.9	3847.4	3866.9	4042.6	4337.5	4200.9	4534.9	4478.5	3365.9
52.5°	3153.4	3162.1	3498.2	3741.1	3819.2	4007.9	4443.8	4480.7	4842.9	4799.5	3613.2
55°	2429.0	2474.6	2793.4	3387.6	3710.8	3949.3	4476.3	4662.8	5157.3	5122.6	3862.6
57.5°	1999.6	2006.1	2190.5	2721.8	3368.1	3895.1	4508.9	4829.8	5439.3	5400.2	4122.8
60°	1659.1	1643.9	1756.7	2099.4	2797.7	3678.2	4515.4	4962.1	5766.7	5753.7	4391.8
62.5°	1218.8	1236.2	1344.6	1635.2	2188.3	3238.0	4482.8	5074.9	6157.1	6139.8	4691.0
65°	748.2	769.9	902.2	1169.0	1656.9	2570.0	4270.3	5133.5	6567.0	6606.1	5014.2
67.5°	396.9	412.1	490.1	707.0	1136.4	1958.4	3758.5	5059.7	6914.0	6931.4	5324.3
70°	290.6	292.8	318.8	399.1	685.3	1362.0	2992.9	4738.8	7126.6	7161.3	5426.3
72.5°	253.7	255.9	266.8	286.3	373.0	830.6	2144.9	4179.2	7037.6	7007.3	5254.9
75°	229.9	229.9	238.6	245.1	273.3	459.8	1314.3	3420.1	6358.8	6291.6	4480.7
77.5°	197.4	197.4	206.0	214.7	236.4	297.1	687.5	2535.3	4862.4	4747.4	3064.5
80°	158.3	158.3	169.2	180.0	208.2	223.4	336.2	1696.0	2780.4	2611.2	1394.5
82.5°	108.4	117.1	136.6	149.6	173.5	158.3	197.4	733.0	876.2	759.1	314.5
85°	65.1	69.4	97.6	112.8	130.1	84.6	121.5	281.9	262.4	229.9	71.6
87.5°	6.5	10.8	39.0	45.5	45.5	23.9	52.1	67.2	75.9	78.1	17.4
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°	1182.0	1182.0	1182.0	1182.0	1182.0	1182.0	1182.0	1182.0	1182.0	1182.0	1182.0
2.5°	1182.0	1156.0	1106.1	1060.5	1015.0	984.6	954.3	943.4	928.2	917.4	926.1
5°	1192.8	1138.6	1043.2	962.9	908.7	867.5	848.0	837.1	828.5	826.3	824.1
7.5°	1205.8	1125.6	997.6	908.7	856.7	837.1	832.8	832.8	832.8	835.0	837.1
10°	1234.0	1129.9	973.8	878.4	850.2	845.8	848.0	856.7	856.7	858.8	858.8
12.5°	1266.6	1140.8	956.4	874.0	856.7	858.8	861.0	865.3	865.3	871.8	869.7
15°	1314.3	1162.5	954.3	878.4	863.2	858.8	858.8	856.7	856.7	856.7	861.0
17.5°	1375.0	1192.8	956.4	878.4	856.7	848.0	841.5	835.0	826.3	830.6	826.3
20°	1435.7	1229.7	956.4	867.5	839.3	817.6	798.1	787.3	776.4	774.2	776.4
22.5°	1511.6	1273.1	945.6	843.7	802.4	772.1	743.9	728.7	711.4	704.8	700.5
25°	1576.7	1307.8	923.9	808.9	761.2	717.9	681.0	655.0	633.3	628.9	628.9
27.5°	1643.9	1338.1	891.4	765.6	702.7	655.0	613.8	581.2	559.5	557.4	555.2
30°	1706.8	1364.2	848.0	717.9	650.6	594.2	546.5	518.3	498.8	488.0	481.5
32.5°	1789.2	1398.9	806.8	670.1	589.9	533.5	490.1	466.3	440.3	422.9	416.4
35°	1893.3	1440.1	761.2	618.1	535.7	479.3	453.3	418.6	386.0	366.5	360.0
37.5°	2010.4	1498.6	713.5	563.9	481.5	440.3	425.1	370.9	336.2	329.7	327.5
40°	2155.8	1555.0	659.3	507.5	429.4	418.6	392.5	336.2	318.8	316.6	314.5
42.5°	2301.1	1615.7	607.3	451.1	388.2	392.5	355.7	327.5	312.3	308.0	305.8
45°	2470.2	1676.5	555.2	401.2	355.7	355.7	336.2	318.8	305.8	301.5	301.5
47.5°	2648.1	1737.2	498.8	357.8	331.8	318.8	321.0	308.0	299.3	295.0	292.8
50°	2871.4	1795.7	446.8	327.5	316.6	299.3	305.8	297.1	292.8	288.4	286.3
52.5°	3081.8	1821.8	399.1	310.1	308.0	290.6	292.8	288.4	286.3	279.8	277.6
55°	3287.8	1815.3	362.2	301.5	297.1	288.4	284.1	281.9	279.8	273.3	271.1
57.5°	3517.7	1806.6	338.3	299.3	290.6	281.9	281.9	275.4	266.8	266.8	266.8
60°	3756.3	1778.4	327.5	299.3	288.4	281.9	277.6	271.1	262.4	264.6	262.4
62.5°	4025.2	1724.2	321.0	305.8	290.6	279.8	275.4	266.8	255.9	258.1	255.9
65°	4261.6	1613.6	316.6	312.3	295.0	281.9	271.1	260.3	247.2	249.4	247.2
67.5°	4422.1	1427.0	303.6	316.6	301.5	279.8	266.8	251.6	234.2	242.9	240.7
70°	4376.6	1160.3	279.8	308.0	308.0	281.9	260.3	240.7	221.2	238.6	232.1
72.5°	4023.1	871.8	234.2	277.6	303.6	281.9	247.2	223.4	206.0	216.9	203.9
75°	3303.0	592.1	186.5	221.2	284.1	284.1	236.4	206.0	184.3	177.8	173.5
77.5°	2060.3	368.7	145.3	162.7	238.6	281.9	225.6	184.3	154.0	149.6	145.3
80°	815.5	197.4	114.9	117.1	175.7	258.1	210.4	156.2	123.6	119.3	110.6
82.5°	186.5	99.8	80.2	78.1	108.4	210.4	190.9	123.6	95.4	95.4	80.2
85°	56.4	52.1	52.1	49.9	54.2	108.4	147.5	84.6	65.1	45.5	39.0
87.5°	15.2	21.7	19.5	17.4	17.4	15.2	47.7	21.7	13.0	6.5	4.3
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)