

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: P595362

Luminaire Tested: **IST-PA1F-730-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595362
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-730-U-T2R
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 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: 10326 lumens
Efficiency: N/A
Efficacy: 110.4 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

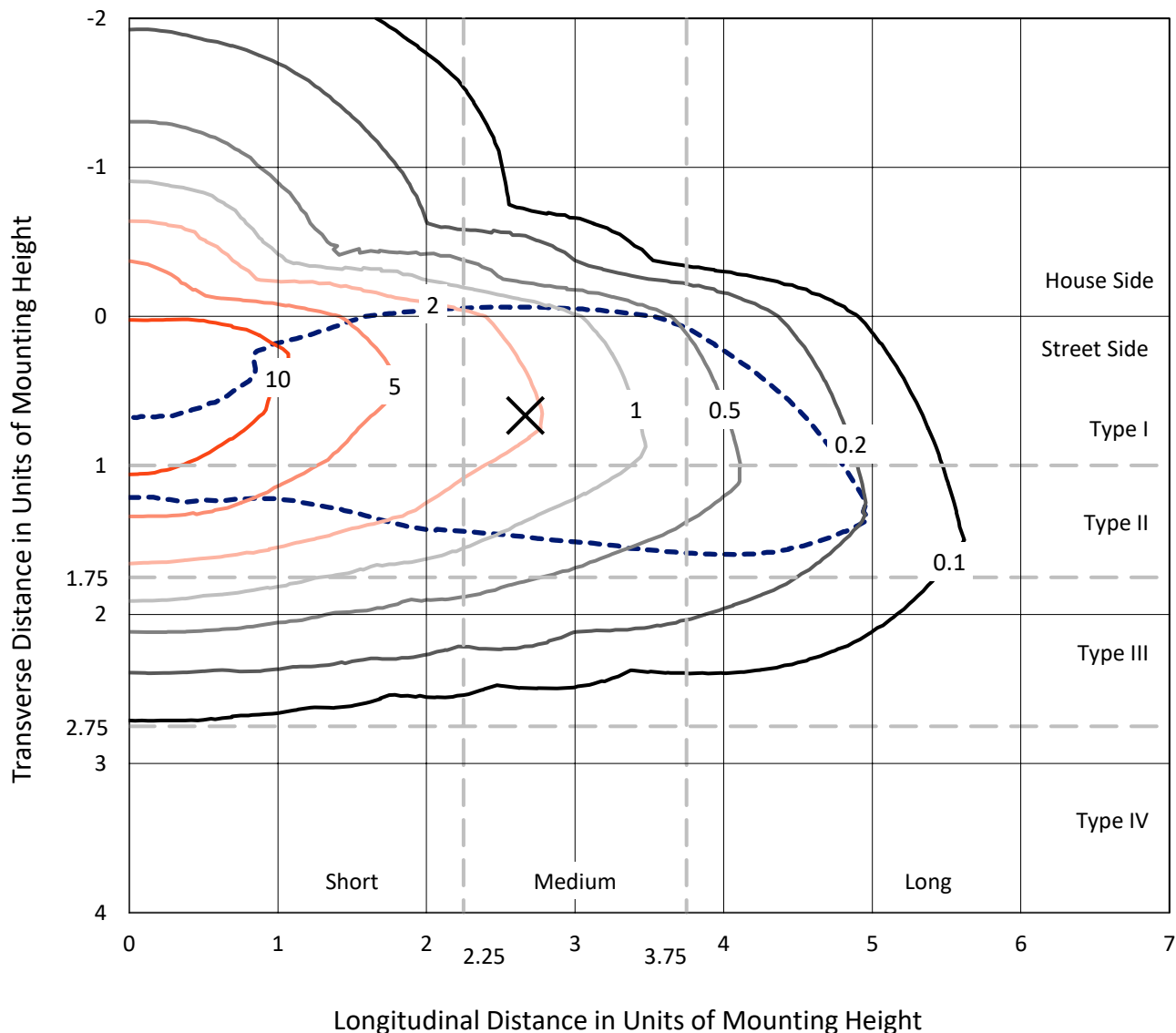
Input Watts (W): 93.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

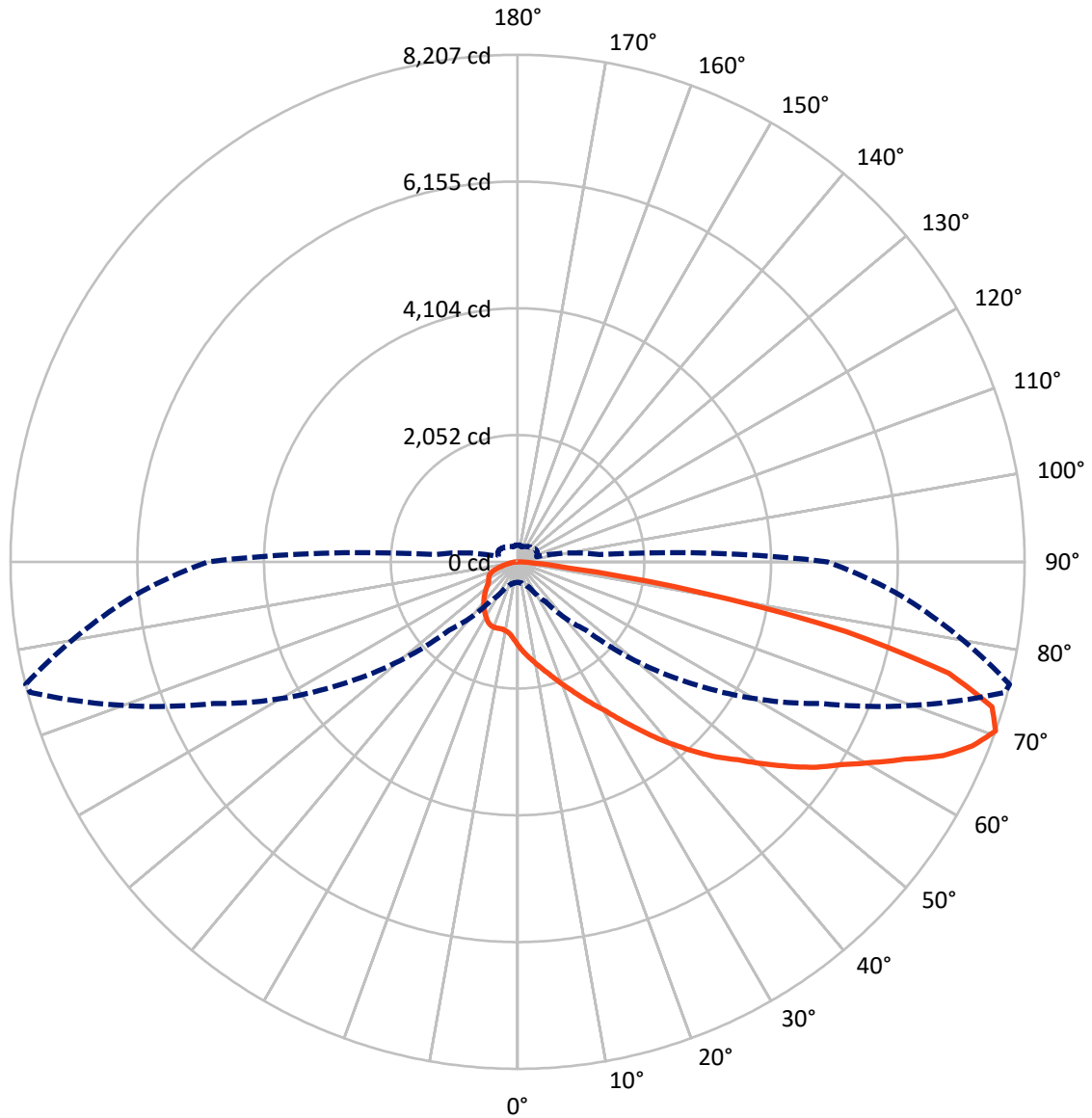
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 16.3 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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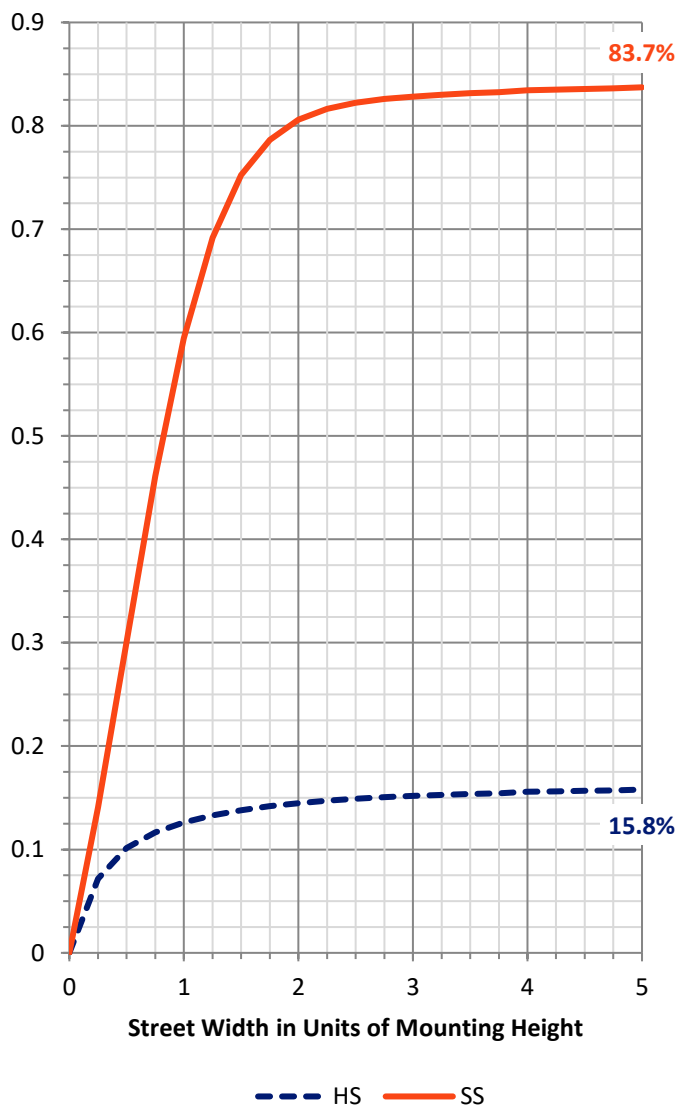
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1656.2	0.0	1656.2
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	8669.8	0.0	8669.8
	% Fixture	84.0	0.0	84.0
Total	Lumens	10326.0	0.0	10326.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.0	1.3
10°-20°	435.7	4.2
20°-30°	802.9	7.8
30°-40°	1345.2	13.0
40°-50°	1911.4	18.5
50°-60°	2206.9	21.4
60°-70°	2028.7	19.6
70°-80°	1279.2	12.4
80°-90°	184.0	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°	10326.0	100.0
0°-180°	10326.0	100.0

Coefficient of Utilization

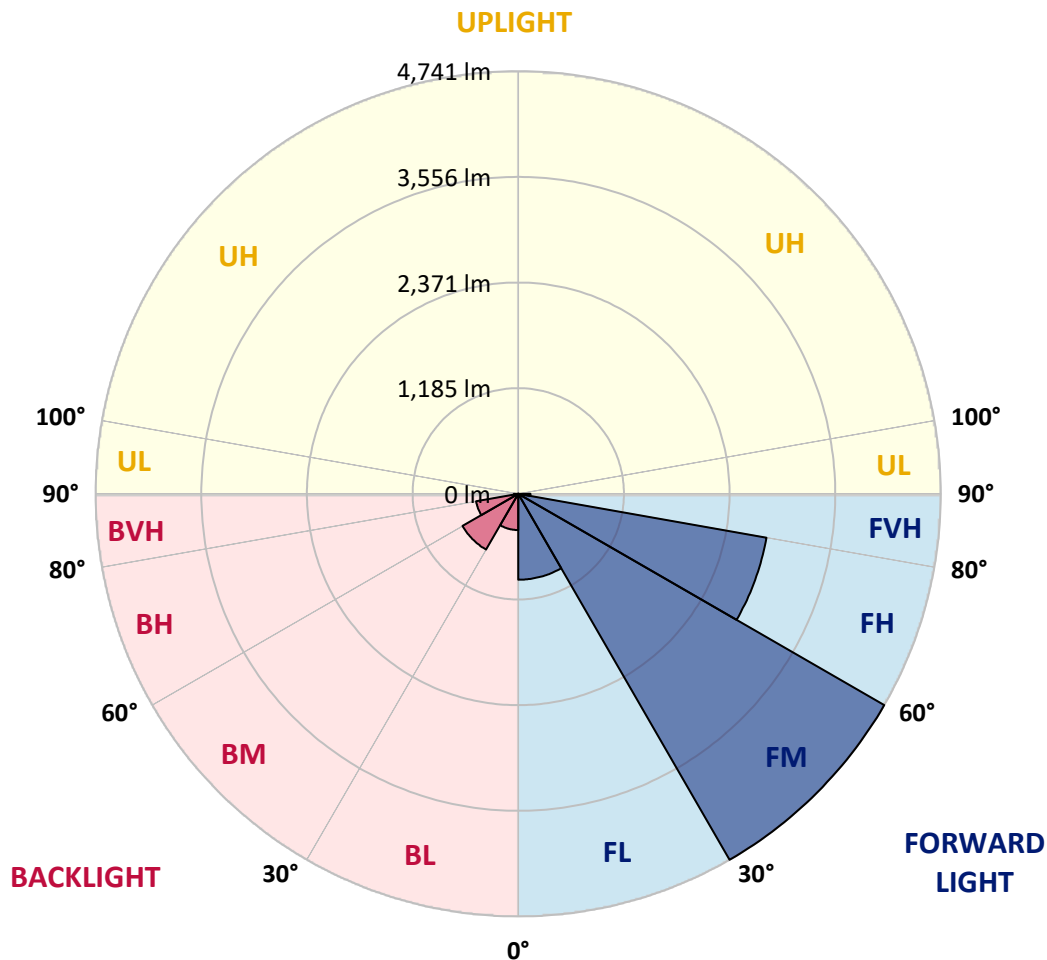


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	964.1	9.3			
FM (30°-60°)	4741.5	45.9			
FH (60°-80°)	2827.9	27.4			G2/5000
FVH (80°-90°)	136.4	1.3			G2/225
BL (0°-30°)	406.5	3.9	B1/500		
BM (30°-60°)	722.0	7.0	B1/1000		
BH (60°-80°)	480.0	4.6	B1/500		G1/500
BVH (80°-90°)	47.6	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°	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6
2.5°	1630.5	1628.0	1620.6	1608.1	1598.2	1568.4	1528.6	1493.8	1441.6	1436.6	1384.4
5°	1777.2	1767.2	1767.2	1754.8	1742.4	1710.0	1660.3	1598.2	1523.6	1518.7	1419.2
7.5°	1846.8	1849.2	1844.3	1834.3	1836.8	1809.5	1764.7	1702.6	1600.7	1595.7	1466.5
10°	1946.2	1943.7	1933.7	1926.3	1923.8	1898.9	1859.2	1802.0	1695.1	1685.2	1521.1
12.5°	2043.1	2035.7	2038.1	2035.7	2030.7	2005.8	1968.5	1911.4	1779.6	1774.7	1588.3
15°	2097.8	2095.3	2112.7	2117.7	2137.6	2115.2	2082.9	2018.3	1898.9	1879.1	1667.8
17.5°	2132.6	2130.1	2147.5	2187.3	2224.6	2224.6	2214.6	2145.0	2013.3	1998.4	1757.3
20°	2192.2	2202.2	2232.0	2264.3	2319.0	2328.9	2326.5	2296.6	2145.0	2130.1	1856.7
22.5°	2311.5	2306.6	2331.4	2381.1	2430.9	2445.8	2448.3	2448.3	2296.6	2269.3	1958.6
25°	2567.6	2555.1	2535.2	2530.3	2589.9	2587.4	2580.0	2597.4	2455.7	2435.8	2075.4
27.5°	3054.7	3027.4	2950.3	2796.2	2761.4	2773.9	2736.6	2739.1	2637.2	2612.3	2174.8
30°	3517.0	3504.6	3432.5	3246.1	3049.8	2980.2	2915.5	2888.2	2838.5	2796.2	2281.7
32.5°	3934.6	3937.1	3850.1	3646.3	3445.0	3226.2	3114.4	3057.2	3077.1	3039.8	2428.4
35°	4218.0	4195.6	4140.9	4004.2	3785.5	3576.7	3362.9	3236.2	3343.0	3300.8	2575.0
37.5°	4384.5	4367.1	4322.3	4225.4	4116.0	3914.7	3643.8	3449.9	3658.7	3596.6	2761.4
40°	4469.0	4444.1	4399.4	4359.6	4307.4	4198.1	3959.5	3693.5	3947.0	3892.3	2945.4
42.5°	4478.9	4461.5	4436.7	4416.8	4434.2	4419.3	4267.7	3976.9	4250.3	4190.6	3156.6
45°	4471.5	4483.9	4454.1	4419.3	4454.1	4580.8	4580.8	4260.2	4551.0	4506.3	3358.0
47.5°	4476.5	4464.0	4454.1	4444.1	4449.1	4623.1	4797.1	4526.2	4839.3	4787.1	3594.1
50°	4270.2	4287.5	4372.1	4409.3	4431.7	4633.0	4971.1	4814.5	5197.3	5132.6	3857.6
52.5°	3614.0	3623.9	4009.2	4287.5	4377.0	4593.3	5092.9	5135.1	5550.2	5500.5	4140.9
55°	2783.8	2836.0	3201.4	3882.4	4252.8	4526.2	5130.1	5343.9	5910.6	5870.8	4426.7
57.5°	2291.7	2299.1	2510.4	3119.3	3860.0	4464.0	5167.4	5535.3	6233.7	6189.0	4725.0
60°	1901.4	1884.0	2013.3	2406.0	3206.3	4215.5	5174.9	5686.9	6609.0	6594.1	5033.2
62.5°	1396.9	1416.8	1541.0	1874.1	2507.9	3710.9	5137.6	5816.2	7056.4	7036.6	5376.2
65°	857.5	882.4	1034.0	1339.7	1898.9	2945.4	4894.0	5883.3	7526.2	7570.9	5746.6
67.5°	454.9	472.3	561.7	810.3	1302.4	2244.4	4307.4	5798.8	7923.9	7943.8	6102.0
70°	333.1	335.5	365.4	457.3	785.4	1560.9	3430.0	5430.9	8167.5	8207.2	6218.8
72.5°	290.8	293.3	305.7	328.1	427.5	952.0	2458.2	4789.6	8065.6	8030.8	6022.5
75°	263.5	263.5	273.4	280.9	313.2	526.9	1506.2	3919.7	7287.6	7210.5	5135.1
77.5°	226.2	226.2	236.1	246.1	270.9	340.5	787.9	2905.6	5572.6	5440.8	3512.1
80°	181.4	181.4	193.9	206.3	238.6	256.0	385.3	1943.7	3186.5	2992.6	1598.2
82.5°	124.3	134.2	156.6	171.5	198.8	181.4	226.2	840.1	1004.2	869.9	360.4
85°	74.6	79.5	111.8	129.2	149.1	96.9	139.2	323.1	300.7	263.5	82.0
87.5°	7.5	12.4	44.7	52.2	52.2	27.3	59.7	77.1	87.0	89.5	19.9
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°	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6	1354.6
2.5°	1354.6	1324.8	1267.6	1215.4	1163.2	1128.4	1093.6	1081.2	1063.8	1051.4	1061.3
5°	1367.0	1304.9	1195.5	1103.6	1041.4	994.2	971.8	959.4	949.5	947.0	944.5
7.5°	1382.0	1290.0	1143.3	1041.4	981.8	959.4	954.4	954.4	954.4	956.9	959.4
10°	1414.3	1295.0	1116.0	1006.6	974.3	969.4	971.8	981.8	981.8	984.3	984.3
12.5°	1451.6	1307.4	1096.1	1001.7	981.8	984.3	986.8	991.7	991.7	999.2	996.7
15°	1506.2	1332.2	1093.6	1006.6	989.2	984.3	984.3	981.8	981.8	981.8	986.8
17.5°	1575.8	1367.0	1096.1	1006.6	981.8	971.8	964.4	956.9	947.0	952.0	947.0
20°	1645.4	1409.3	1096.1	994.2	961.9	937.0	914.7	902.2	889.8	887.3	889.8
22.5°	1732.4	1459.0	1083.7	966.9	919.6	884.9	852.5	835.1	815.3	807.8	802.8
25°	1807.0	1498.8	1058.8	927.1	872.4	822.7	780.5	750.6	725.8	720.8	720.8
27.5°	1884.0	1533.6	1021.6	877.4	805.3	750.6	703.4	666.1	641.3	638.8	636.3
30°	1956.1	1563.4	971.8	822.7	745.7	681.0	626.4	594.0	571.7	559.2	551.8
32.5°	2050.6	1603.2	924.6	768.0	676.1	611.4	561.7	534.4	504.6	484.7	477.2
35°	2169.9	1650.4	872.4	708.4	613.9	549.3	519.5	479.7	442.4	420.1	412.6
37.5°	2304.1	1717.5	817.7	646.2	551.8	504.6	487.2	425.0	385.3	377.8	375.3
40°	2470.6	1782.1	755.6	581.6	492.1	479.7	449.9	385.3	365.4	362.9	360.4
42.5°	2637.2	1851.7	696.0	517.0	444.9	449.9	407.6	375.3	357.9	352.9	350.5
45°	2831.0	1921.3	636.3	459.8	407.6	407.6	385.3	365.4	350.5	345.5	345.5
47.5°	3034.8	1990.9	571.7	410.1	380.3	365.4	367.9	352.9	343.0	338.0	335.5
50°	3290.8	2058.0	512.0	375.3	362.9	343.0	350.5	340.5	335.5	330.6	328.1
52.5°	3531.9	2087.9	457.3	355.4	352.9	333.1	335.5	330.6	328.1	320.6	318.1
55°	3768.1	2080.4	415.1	345.5	340.5	330.6	325.6	323.1	320.6	313.2	310.7
57.5°	4031.5	2070.5	387.7	343.0	333.1	323.1	323.1	315.7	305.7	305.7	305.7
60°	4304.9	2038.1	375.3	343.0	330.6	323.1	318.1	310.7	300.7	303.2	300.7
62.5°	4613.2	1976.0	367.9	350.5	333.1	320.6	315.7	305.7	293.3	295.8	293.3
65°	4884.1	1849.2	362.9	357.9	338.0	323.1	310.7	298.3	283.4	285.8	283.4
67.5°	5068.0	1635.5	348.0	362.9	345.5	320.6	305.7	288.3	268.4	278.4	275.9
70°	5015.8	1329.8	320.6	352.9	352.9	323.1	298.3	275.9	253.5	273.4	266.0
72.5°	4610.7	999.2	268.4	318.1	348.0	323.1	283.4	256.0	236.1	248.6	233.6
75°	3785.5	678.6	213.8	253.5	325.6	325.6	270.9	236.1	211.3	203.8	198.8
77.5°	2361.3	422.5	166.5	186.4	273.4	323.1	258.5	211.3	176.5	171.5	166.5
80°	934.6	226.2	131.7	134.2	201.3	295.8	241.1	179.0	141.7	136.7	126.8
82.5°	213.8	114.3	92.0	89.5	124.3	241.1	218.7	141.7	109.4	109.4	92.0
85°	64.6	59.7	59.7	57.2	62.1	124.3	169.0	96.9	74.6	52.2	44.7
87.5°	17.4	24.9	22.4	19.9	19.9	17.4	54.7	24.9	14.9	7.5	5.0
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)