

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: P595299

Luminaire Tested: **IST-PA1E-740-U-T2R**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595299
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-PA1E-740-U-T2R
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10329 lumens
Efficiency: N/A
Efficacy: 126.7 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

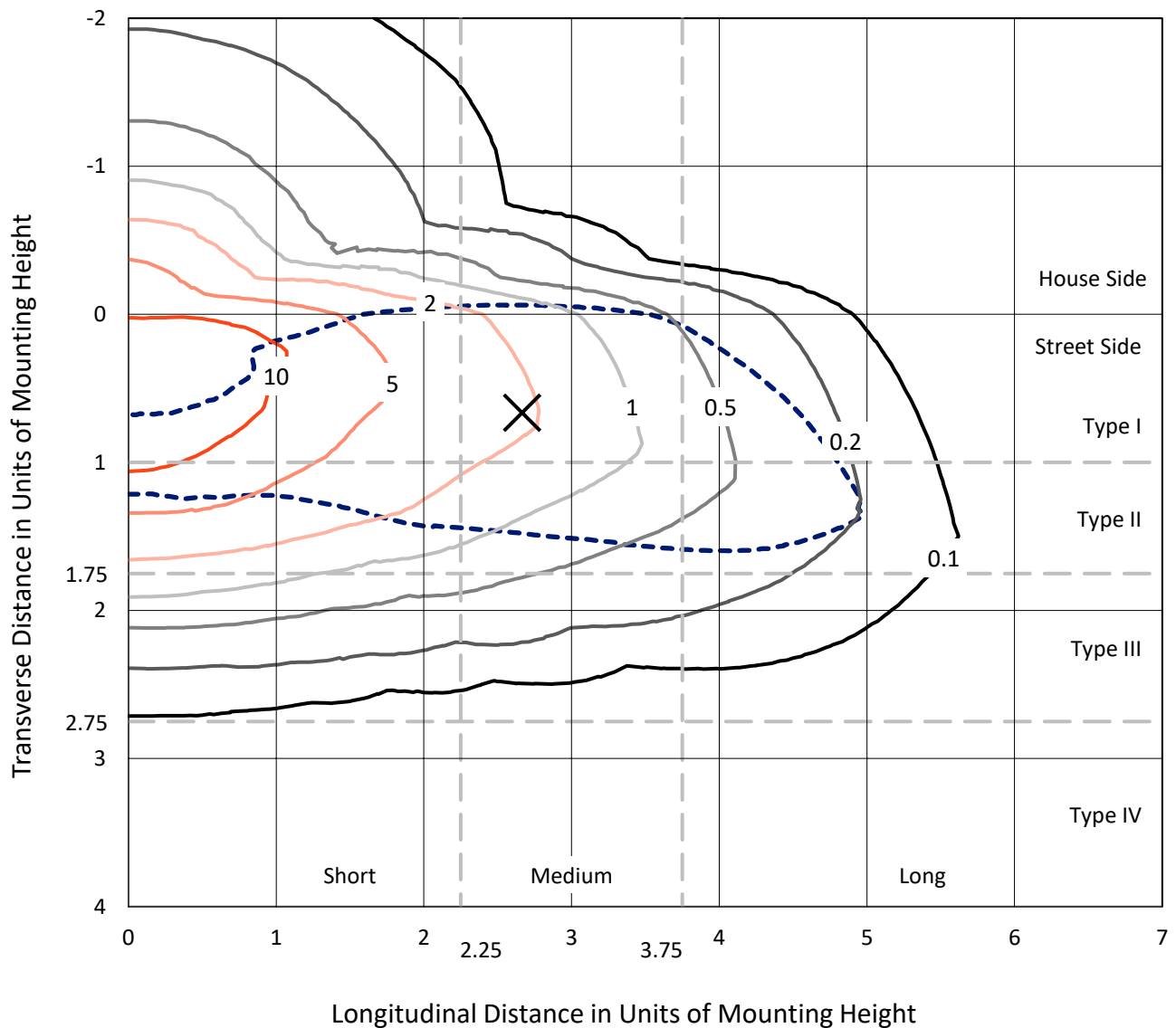
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

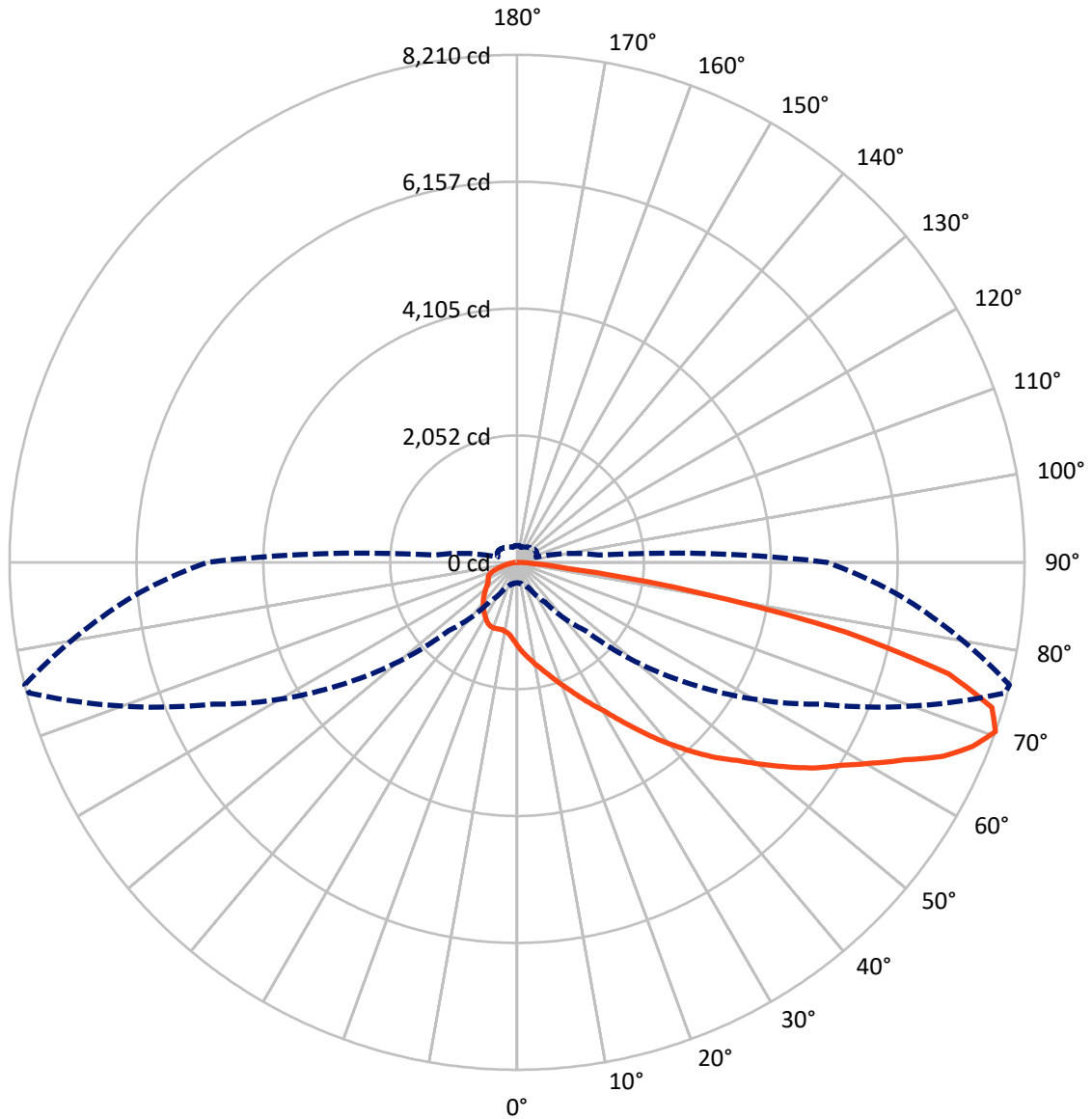
✕ Max cd
 - - - 1/2 Max cd



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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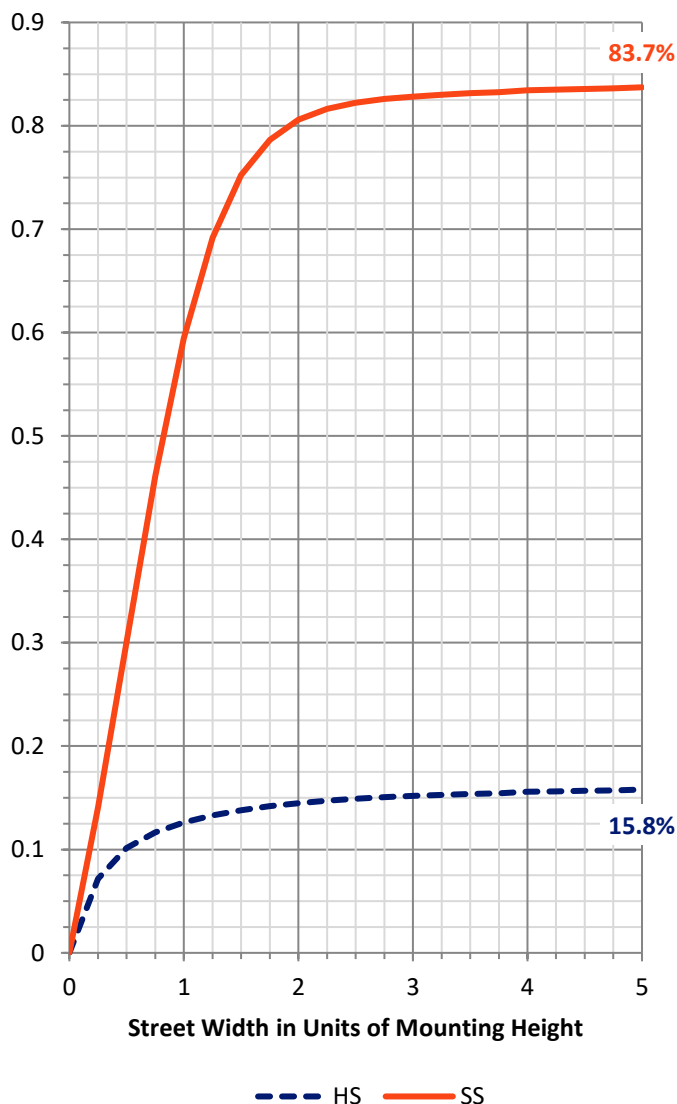
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1656.7	0.0	1656.7
	% Fixture	16.0	0.0	16.0
Street Side	Lumens	8672.3	0.0	8672.3
	% Fixture	84.0	0.0	84.0
Total	Lumens	10329.0	0.0	10329.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.1	1.3
10°-20°	435.8	4.2
20°-30°	803.1	7.8
30°-40°	1345.6	13.0
40°-50°	1912.0	18.5
50°-60°	2207.5	21.4
60°-70°	2029.3	19.6
70°-80°	1279.6	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°	10329.0	100.0
0°-180°	10329.0	100.0

Coefficient of Utilization

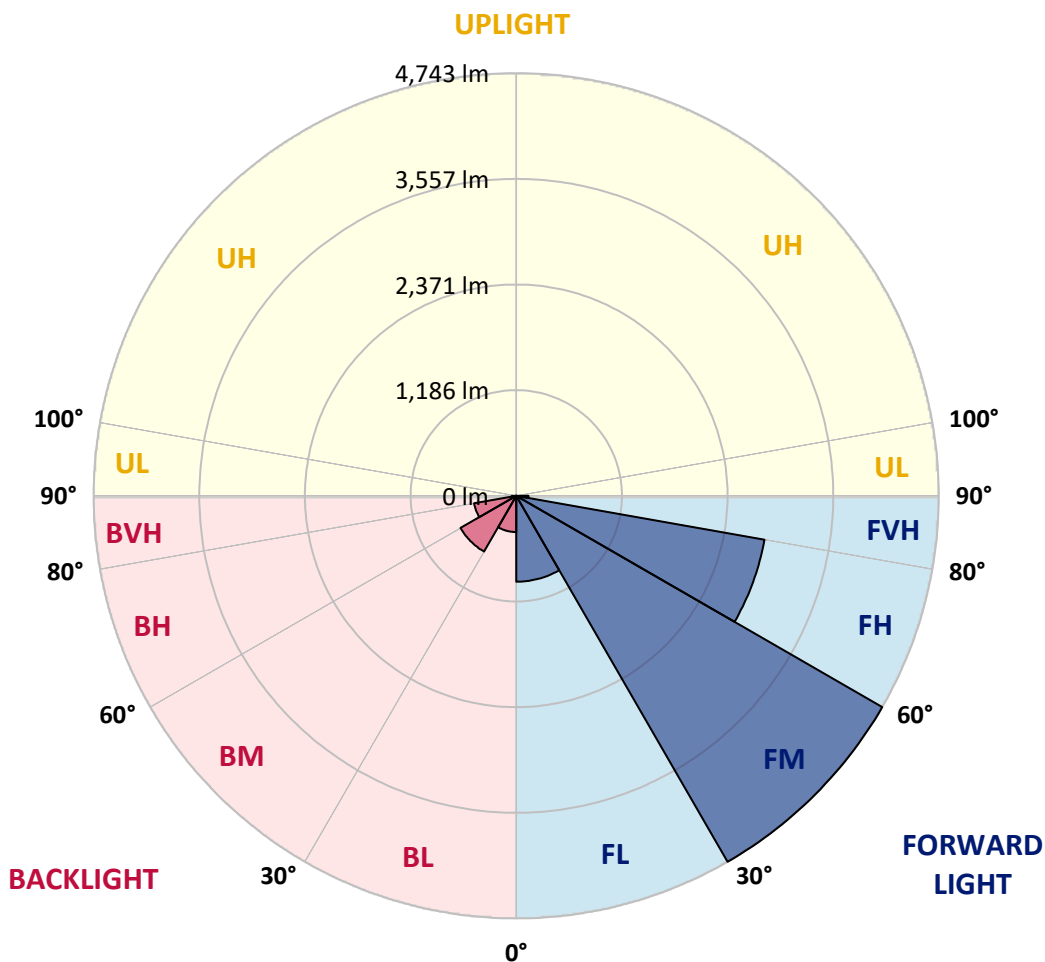


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	964.3	9.3			
FM (30°-60°)	4742.8	45.9			
FH (60°-80°)	2828.7	27.4			G2/5000
FVH (80°-90°)	136.4	1.3			G2/225
BL (0°-30°)	406.7	3.9	B1/500		
BM (30°-60°)	722.2	7.0	B1/1000		
BH (60°-80°)	480.2	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°	1355.0	1355.0	1355.0	1355.0	1355.0	1355.0	1355.0	1355.0	1355.0	1355.0	1355.0
2.5°	1631.0	1628.5	1621.0	1608.6	1598.7	1568.8	1529.0	1494.2	1442.0	1437.1	1384.8
5°	1777.7	1767.7	1767.7	1755.3	1742.9	1710.5	1660.8	1598.7	1524.1	1519.1	1419.7
7.5°	1847.3	1849.8	1844.8	1834.9	1837.3	1810.0	1765.2	1703.1	1601.2	1596.2	1466.9
10°	1946.7	1944.3	1934.3	1926.9	1924.4	1899.5	1859.7	1802.5	1695.6	1685.7	1521.6
12.5°	2043.7	2036.2	2038.7	2036.2	2031.3	2006.4	1969.1	1911.9	1780.2	1775.2	1588.7
15°	2098.4	2095.9	2113.3	2118.3	2138.2	2115.8	2083.5	2018.8	1899.5	1879.6	1668.3
17.5°	2133.2	2130.7	2148.1	2187.9	2225.2	2225.2	2215.3	2145.6	2013.9	1999.0	1757.8
20°	2192.9	2202.8	2232.7	2265.0	2319.7	2329.6	2327.1	2297.3	2145.6	2130.7	1857.2
22.5°	2312.2	2307.2	2332.1	2381.8	2431.6	2446.5	2449.0	2449.0	2297.3	2270.0	1959.2
25°	2568.3	2555.9	2536.0	2531.0	2590.7	2588.2	2580.7	2598.1	2456.4	2436.5	2076.0
27.5°	3055.6	3028.3	2951.2	2797.0	2762.2	2774.7	2737.4	2739.9	2637.9	2613.1	2175.5
30°	3518.1	3505.6	3433.5	3247.1	3050.6	2981.0	2916.4	2889.0	2839.3	2797.0	2282.4
32.5°	3935.7	3938.2	3851.2	3647.3	3446.0	3227.2	3115.3	3058.1	3078.0	3040.7	2429.1
35°	4219.2	4196.8	4142.1	4005.4	3786.6	3577.7	3363.9	3237.1	3344.0	3301.8	2575.8
37.5°	4385.8	4368.4	4323.6	4226.6	4117.2	3915.9	3644.9	3450.9	3659.8	3597.6	2762.2
40°	4470.3	4445.4	4400.7	4360.9	4308.7	4199.3	3960.6	3694.6	3948.2	3893.5	2946.2
42.5°	4480.2	4462.8	4438.0	4418.1	4435.5	4420.6	4268.9	3978.0	4251.5	4191.8	3157.5
45°	4472.8	4485.2	4455.4	4420.6	4455.4	4582.2	4582.2	4261.4	4552.3	4507.6	3358.9
47.5°	4477.8	4465.3	4455.4	4445.4	4450.4	4624.4	4798.5	4527.5	4840.7	4788.5	3595.1
50°	4271.4	4288.8	4373.3	4410.6	4433.0	4634.4	4972.5	4815.9	5198.8	5134.1	3858.7
52.5°	3615.0	3625.0	4010.3	4288.8	4378.3	4594.6	5094.3	5136.6	5551.8	5502.1	4142.1
55°	2784.6	2836.8	3202.3	3883.5	4254.0	4527.5	5131.6	5345.5	5912.3	5872.5	4428.0
57.5°	2292.3	2299.8	2511.1	3120.3	3861.2	4465.3	5168.9	5536.9	6235.5	6190.8	4726.4
60°	1902.0	1884.6	2013.9	2406.7	3207.3	4216.7	5176.4	5688.6	6611.0	6596.0	5034.7
62.5°	1397.3	1417.2	1541.5	1874.6	2508.6	3712.0	5139.1	5817.8	7058.5	7038.6	5377.8
65°	857.8	882.6	1034.3	1340.1	1899.5	2946.2	4895.4	5885.0	7528.4	7573.1	5748.2
67.5°	455.0	472.4	561.9	810.5	1302.8	2245.1	4308.7	5800.4	7926.2	7946.1	6103.8
70°	333.2	335.6	365.5	457.5	785.7	1561.4	3431.0	5432.5	8169.8	8209.6	6220.6
72.5°	290.9	293.4	305.8	328.2	427.6	952.2	2458.9	4791.0	8067.9	8033.1	6024.2
75°	263.5	263.5	273.5	280.9	313.3	527.1	1506.7	3920.8	7289.7	7212.6	5136.6
77.5°	226.2	226.2	236.2	246.1	271.0	340.6	788.1	2906.4	5574.2	5442.4	3513.1
80°	181.5	181.5	193.9	206.4	238.7	256.1	385.4	1944.3	3187.4	2993.5	1598.7
82.5°	124.3	134.3	156.6	171.6	198.9	181.5	226.2	840.4	1004.4	870.2	360.5
85°	74.6	79.6	111.9	129.3	149.2	97.0	139.2	323.2	300.8	263.5	82.0
87.5°	7.5	12.4	44.8	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°	1355.0	1355.0	1355.0	1355.0	1355.0	1355.0	1355.0	1355.0	1355.0	1355.0	1355.0
2.5°	1355.0	1325.2	1268.0	1215.8	1163.6	1128.8	1094.0	1081.5	1064.1	1051.7	1061.6
5°	1367.4	1305.3	1195.9	1103.9	1041.7	994.5	972.1	959.7	949.8	947.3	944.8
7.5°	1382.4	1290.4	1143.7	1041.7	982.1	959.7	954.7	954.7	954.7	957.2	959.7
10°	1414.7	1295.3	1116.3	1006.9	974.6	969.6	972.1	982.1	982.1	984.6	984.6
12.5°	1452.0	1307.8	1096.4	1002.0	982.1	984.6	987.0	992.0	992.0	999.5	997.0
15°	1506.7	1332.6	1094.0	1006.9	989.5	984.6	984.6	982.1	982.1	982.1	987.0
17.5°	1576.3	1367.4	1096.4	1006.9	982.1	972.1	964.7	957.2	947.3	952.2	947.3
20°	1645.9	1409.7	1096.4	994.5	962.2	937.3	914.9	902.5	890.1	887.6	890.1
22.5°	1732.9	1459.4	1084.0	967.2	919.9	885.1	852.8	835.4	815.5	808.0	803.1
25°	1807.5	1499.2	1059.1	927.4	872.7	823.0	780.7	750.8	726.0	721.0	721.0
27.5°	1884.6	1534.0	1021.9	877.6	805.5	750.8	703.6	666.3	641.5	639.0	636.5
30°	1956.7	1563.9	972.1	823.0	745.9	681.2	626.5	594.2	571.8	559.4	551.9
32.5°	2051.2	1603.6	924.9	768.3	676.3	611.6	561.9	534.5	504.7	484.8	477.4
35°	2170.5	1650.9	872.7	708.6	614.1	549.5	519.6	479.8	442.6	420.2	412.7
37.5°	2304.8	1718.0	818.0	646.4	551.9	504.7	487.3	425.2	385.4	377.9	375.4
40°	2471.3	1782.6	755.8	581.8	492.3	479.8	450.0	385.4	365.5	363.0	360.5
42.5°	2637.9	1852.3	696.2	517.1	445.0	450.0	407.7	375.4	358.0	353.0	350.6
45°	2831.8	1921.9	636.5	460.0	407.7	407.7	385.4	365.5	350.6	345.6	345.6
47.5°	3035.7	1991.5	571.8	410.2	380.4	365.5	368.0	353.0	343.1	338.1	335.6
50°	3291.8	2058.6	512.2	375.4	363.0	343.1	350.6	340.6	335.6	330.7	328.2
52.5°	3533.0	2088.5	457.5	355.5	353.0	333.2	335.6	330.7	328.2	320.7	318.2
55°	3769.2	2081.0	415.2	345.6	340.6	330.7	325.7	323.2	320.7	313.3	310.8
57.5°	4032.7	2071.1	387.9	343.1	333.2	323.2	323.2	315.8	305.8	305.8	305.8
60°	4306.2	2038.7	375.4	343.1	330.7	323.2	318.2	310.8	300.8	303.3	300.8
62.5°	4614.5	1976.6	368.0	350.6	333.2	320.7	315.8	305.8	293.4	295.9	293.4
65°	4885.5	1849.8	363.0	358.0	338.1	323.2	310.8	298.4	283.4	285.9	283.4
67.5°	5069.5	1636.0	348.1	363.0	345.6	320.7	305.8	288.4	268.5	278.5	276.0
70°	5017.3	1330.1	320.7	353.0	353.0	323.2	298.4	276.0	253.6	273.5	266.0
72.5°	4612.0	999.5	268.5	318.2	348.1	323.2	283.4	256.1	236.2	248.6	233.7
75°	3786.6	678.7	213.8	253.6	325.7	325.7	271.0	236.2	211.3	203.9	198.9
77.5°	2361.9	422.7	166.6	186.5	273.5	323.2	258.6	211.3	176.5	171.6	166.6
80°	934.8	226.2	131.8	134.3	201.4	295.9	241.2	179.0	141.7	136.7	126.8
82.5°	213.8	114.4	92.0	89.5	124.3	241.2	218.8	141.7	109.4	109.4	92.0
85°	64.6	59.7	59.7	57.2	62.2	124.3	169.1	97.0	74.6	52.2	44.8
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)