

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: P595409

Luminaire Tested: **IST-PA1F-827-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1F-827-U-T2U
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8273 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

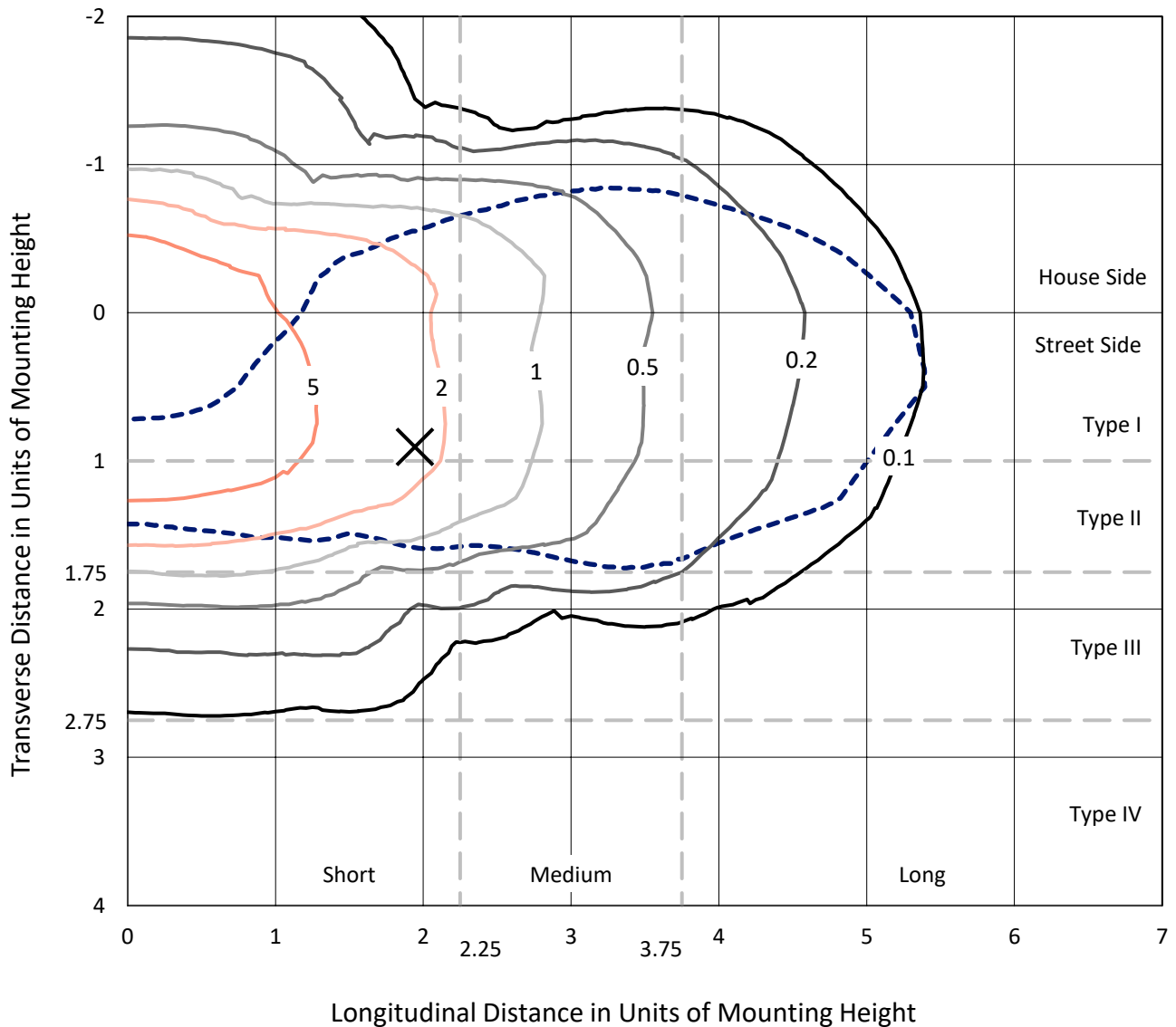
Input Watts (W): 93.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

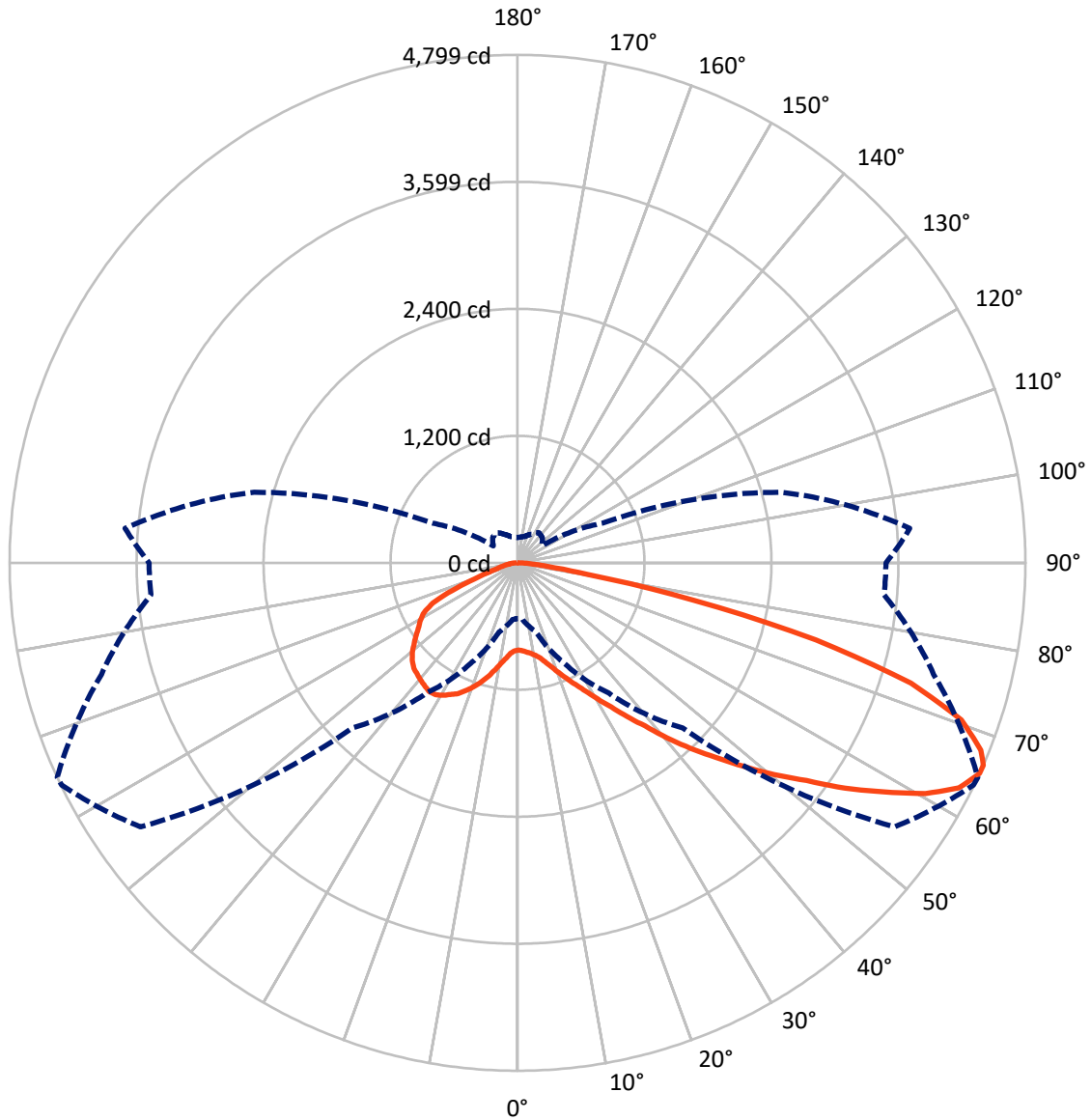
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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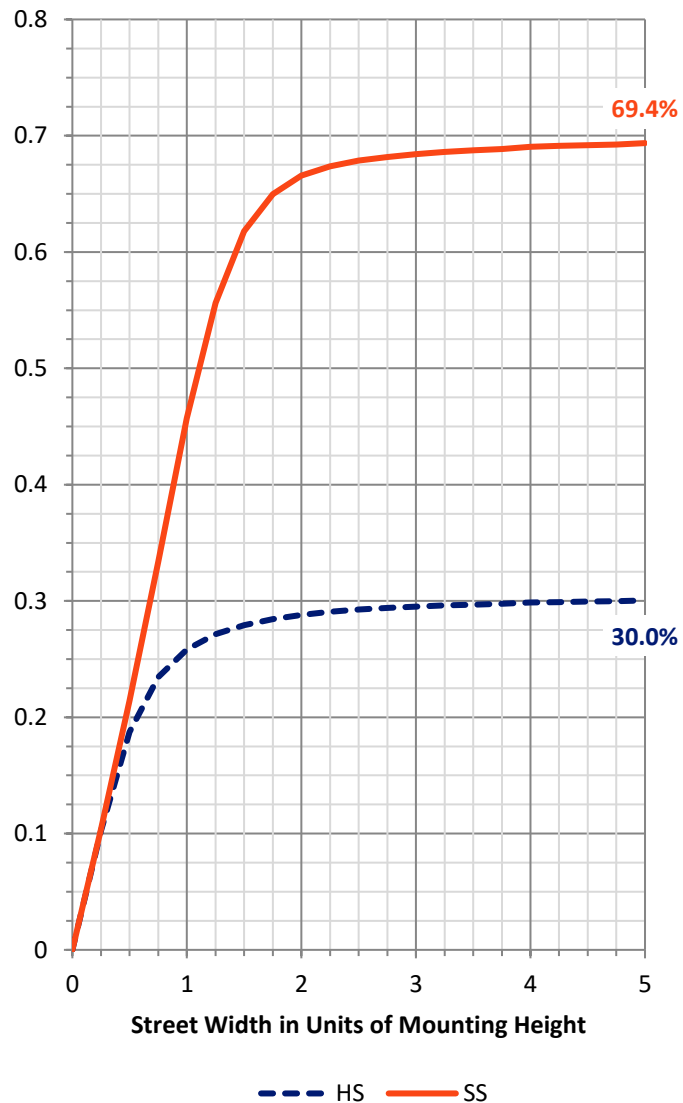
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2512.0	0.0	2512.0
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	5761.0	0.0	5761.0
	% Fixture	69.6	0.0	69.6
Total	Lumens	8273.0	0.0	8273.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.1	1.0
10°-20°	293.2	3.5
20°-30°	574.2	6.9
30°-40°	938.3	11.3
40°-50°	1489.3	18.0
50°-60°	1915.5	23.2
60°-70°	1727.4	20.9
70°-80°	1071.4	13.0
80°-90°	179.5	2.2
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°	8273.0	100.0
0°-180°	8273.0	100.0

Coefficient of Utilization



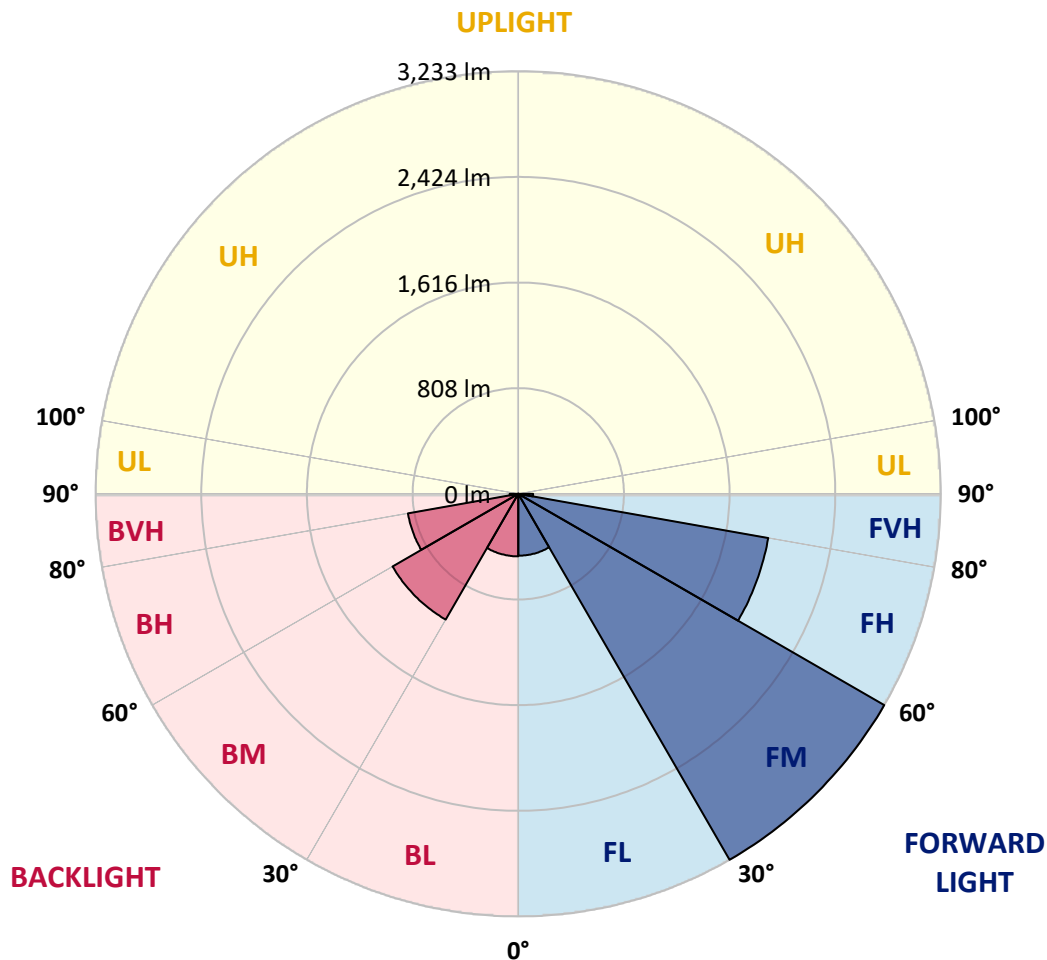
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	473.1	5.7			
FM (30°-60°)	3232.6	39.1			
FH (60°-80°)	1941.7	23.5			G2/5000
FVH (80°-90°)	113.6	1.4			G2/225
BL (0°-30°)	478.4	5.8	B1/500		
BM (30°-60°)	1110.5	13.4	B2/2500		
BH (60°-80°)	857.1	10.4	B2/1000		G2/1000
BVH (80°-90°)	66.0	0.8			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6
2.5°	826.6	828.6	830.6	826.6	830.6	832.6	828.6	828.6	830.6	826.6	826.6
5°	820.6	822.6	826.6	828.6	836.7	840.7	842.7	842.7	844.7	842.7	844.7
7.5°	804.6	804.6	812.6	816.6	828.6	842.7	850.7	862.7	862.7	864.7	870.8
10°	820.6	820.6	826.6	832.6	842.7	854.7	866.8	880.8	884.8	898.9	906.9
12.5°	844.7	848.7	856.7	864.7	876.8	890.8	900.9	914.9	916.9	931.0	947.0
15°	884.8	888.8	892.8	902.9	918.9	937.0	955.0	965.1	969.1	977.1	989.1
17.5°	945.0	949.0	951.0	957.0	969.1	993.2	1019.2	1027.3	1031.3	1031.3	1041.3
20°	1047.3	1045.3	1041.3	1029.3	1029.3	1051.3	1087.5	1101.5	1105.5	1097.5	1091.5
22.5°	1165.7	1163.7	1147.6	1133.6	1123.6	1127.6	1163.7	1187.8	1185.8	1169.7	1145.6
25°	1320.2	1324.2	1298.1	1262.0	1231.9	1223.9	1246.0	1270.0	1274.0	1244.0	1203.8
27.5°	1504.8	1498.8	1484.7	1426.5	1368.3	1332.2	1344.3	1370.4	1372.4	1340.3	1276.1
30°	1721.5	1711.4	1675.3	1615.1	1524.8	1474.7	1464.7	1486.7	1492.7	1438.6	1346.3
32.5°	1962.2	1952.2	1906.1	1813.8	1715.5	1631.2	1599.1	1629.2	1625.2	1563.0	1434.6
35°	2253.2	2251.2	2166.9	2052.5	1928.1	1815.8	1771.6	1771.6	1783.7	1691.4	1546.9
37.5°	2642.4	2658.5	2534.1	2355.5	2180.9	2030.5	1956.2	1952.2	1954.2	1853.9	1673.3
40°	2993.5	2987.5	2915.3	2748.7	2493.9	2301.3	2191.0	2166.9	2172.9	2044.5	1837.8
42.5°	3196.2	3202.2	3184.1	3111.9	2889.2	2646.4	2457.8	2393.6	2395.6	2235.1	1994.3
45°	3322.6	3328.6	3326.6	3362.7	3274.4	3045.7	2776.8	2628.4	2620.3	2451.8	2178.9
47.5°	3394.8	3398.8	3424.9	3499.1	3571.4	3519.2	3129.9	2889.2	2873.1	2654.4	2363.5
50°	3314.5	3316.5	3420.9	3597.4	3774.0	3932.5	3491.1	3148.0	3144.0	2879.2	2544.1
52.5°	2893.2	2929.3	3160.0	3529.2	3924.5	4225.4	3908.4	3453.0	3418.9	3091.8	2724.7
55°	2361.5	2377.6	2642.4	3111.9	3896.4	4406.0	4223.4	3782.0	3757.9	3328.6	2901.2
57.5°	1843.9	1859.9	2174.9	2566.2	3467.0	4396.0	4446.1	4137.2	4083.0	3535.2	3077.8
60°	1189.8	1239.9	1605.1	2086.6	2806.9	4091.0	4558.5	4478.2	4428.1	3739.9	3228.3
62.5°	808.6	816.6	1045.3	1546.9	2100.7	3324.6	4550.5	4688.9	4680.9	3944.5	3378.7
65°	525.7	537.7	676.1	1047.3	1502.8	2207.0	4349.8	4791.2	4799.3	4070.9	3477.1
66°	445.4	453.4	559.8	880.8	1316.2	1749.6	4173.3	4783.2	4799.3	4129.1	3507.1
67.5°	387.2	393.2	447.4	650.1	1075.4	1258.0	3713.8	4676.9	4723.0	4183.3	3545.3
70°	333.1	341.1	391.2	443.4	768.4	734.3	2351.5	4404.0	4450.1	4209.4	3569.3
72.5°	274.9	280.9	331.1	401.3	557.8	493.6	1037.3	3770.0	3886.4	4113.1	3531.2
75°	216.7	220.7	266.8	335.1	427.4	385.2	451.4	2764.8	2911.3	3625.5	3382.8
77.5°	168.5	170.5	206.7	260.8	391.2	299.0	278.9	1346.3	1703.4	2800.9	2979.5
80°	116.4	120.4	152.5	196.6	286.9	236.8	186.6	525.7	668.1	1859.9	2259.2
82.5°	76.2	78.2	104.3	148.5	190.6	226.7	122.4	254.8	280.9	856.7	979.1
85°	52.2	52.2	74.2	92.3	130.4	150.5	80.3	134.4	146.5	325.0	118.4
87.5°	26.1	26.1	36.1	48.2	62.2	58.2	48.2	48.2	48.2	106.3	34.1
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°	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6	824.6
2.5°	828.6	828.6	830.6	832.6	834.7	834.7	836.7	836.7	834.7	836.7	838.7
5°	846.7	848.7	852.7	858.7	868.8	878.8	888.8	894.8	900.9	902.9	898.9
7.5°	874.8	878.8	892.8	908.9	924.9	949.0	963.1	971.1	975.1	979.1	975.1
10°	910.9	918.9	939.0	967.1	995.2	1025.3	1041.3	1053.3	1055.4	1059.4	1055.4
12.5°	953.0	967.1	997.2	1037.3	1071.4	1101.5	1113.5	1105.5	1087.5	1079.4	1077.4
15°	1003.2	1017.2	1059.4	1109.5	1149.7	1163.7	1145.6	1119.6	1099.5	1097.5	1095.5
17.5°	1047.3	1067.4	1125.6	1177.7	1215.9	1201.8	1153.7	1137.6	1131.6	1139.6	1137.6
20°	1103.5	1119.6	1177.7	1241.9	1262.0	1207.8	1173.7	1163.7	1157.7	1157.7	1153.7
22.5°	1149.7	1161.7	1231.9	1302.1	1290.1	1211.9	1187.8	1167.7	1147.6	1145.6	1139.6
25°	1203.8	1207.8	1282.1	1358.3	1294.1	1215.9	1173.7	1139.6	1119.6	1113.5	1115.5
27.5°	1254.0	1264.0	1328.2	1396.4	1284.1	1193.8	1125.6	1081.4	1051.3	1049.3	1049.3
30°	1318.2	1318.2	1376.4	1438.6	1262.0	1137.6	1047.3	983.1	959.0	957.0	953.0
32.5°	1390.4	1378.4	1434.6	1468.7	1213.9	1061.4	941.0	868.8	830.6	822.6	816.6
35°	1490.7	1464.7	1504.8	1474.7	1165.7	953.0	806.6	724.3	696.2	684.2	684.2
37.5°	1607.1	1569.0	1611.1	1456.6	1091.5	826.6	666.1	603.9	573.8	555.8	561.8
40°	1743.5	1695.4	1719.5	1436.6	1011.2	686.2	549.7	511.6	475.5	451.4	451.4
42.5°	1904.1	1823.8	1841.9	1416.5	896.9	563.8	475.5	449.4	421.3	397.3	403.3
45°	2058.5	1980.3	1962.2	1396.4	776.5	481.5	445.4	427.4	401.3	373.2	373.2
47.5°	2237.1	2136.8	2068.6	1360.3	658.1	455.4	453.4	427.4	377.2	337.1	333.1
50°	2405.6	2313.4	2164.9	1306.2	591.9	477.5	451.4	389.2	341.1	315.0	313.0
52.5°	2584.2	2487.9	2243.1	1239.9	557.8	467.5	415.3	357.1	321.0	294.9	288.9
55°	2760.8	2710.6	2313.4	1175.7	503.6	435.4	385.2	337.1	299.0	274.9	270.9
57.5°	2961.4	2941.3	2373.5	1111.5	419.3	395.3	363.2	323.0	286.9	268.9	266.8
60°	3136.0	3206.2	2445.8	1063.4	357.1	365.2	353.1	321.0	294.9	274.9	274.9
62.5°	3320.6	3461.0	2510.0	1001.2	311.0	347.1	355.1	319.0	284.9	266.8	266.8
65°	3481.1	3721.8	2576.2	886.8	278.9	333.1	349.1	296.9	256.8	242.8	238.8
66°	3549.3	3796.1	2596.3	816.6	266.8	323.0	339.1	284.9	244.8	232.7	230.7
67.5°	3629.5	3912.4	2620.3	666.1	248.8	301.0	317.0	266.8	224.7	216.7	212.7
70°	3741.9	3936.5	2606.3	435.4	216.7	258.8	282.9	238.8	200.6	194.6	188.6
72.5°	3753.9	3772.0	2465.8	274.9	188.6	222.7	248.8	214.7	176.6	170.5	166.5
75°	3555.3	3342.6	2086.6	196.6	166.5	196.6	218.7	186.6	146.5	138.4	134.4
77.5°	3035.6	2652.4	1500.8	146.5	144.5	168.5	182.6	162.5	122.4	116.4	114.4
80°	2130.8	1799.7	752.4	110.4	114.4	140.4	152.5	136.4	102.3	94.3	90.3
82.5°	862.7	764.4	258.8	82.3	86.3	106.3	130.4	112.4	78.2	68.2	60.2
85°	98.3	166.5	112.4	56.2	58.2	72.2	88.3	68.2	46.1	38.1	32.1
87.5°	20.1	36.1	40.1	22.1	20.1	28.1	40.1	24.1	16.1	6.0	8.0
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)