

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: P594914

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

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594914
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: ISS-PA1F-827-U-T2U
Description: IMPACT ELITE LED QUARTER SPHERE 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: 8527 lumens
Efficiency: N/A
Efficacy: 90.3 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

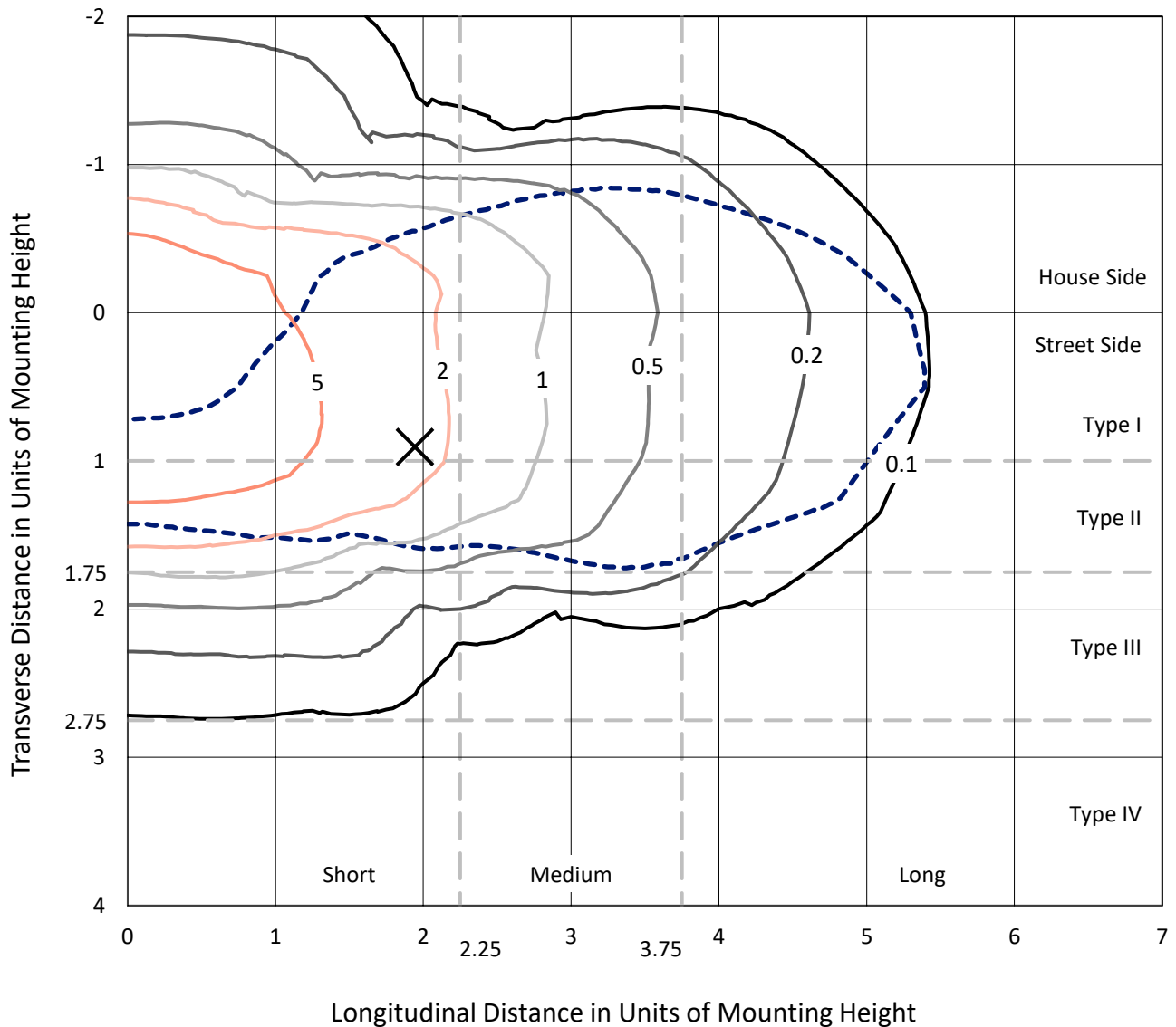
Input Watts (W): 94.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

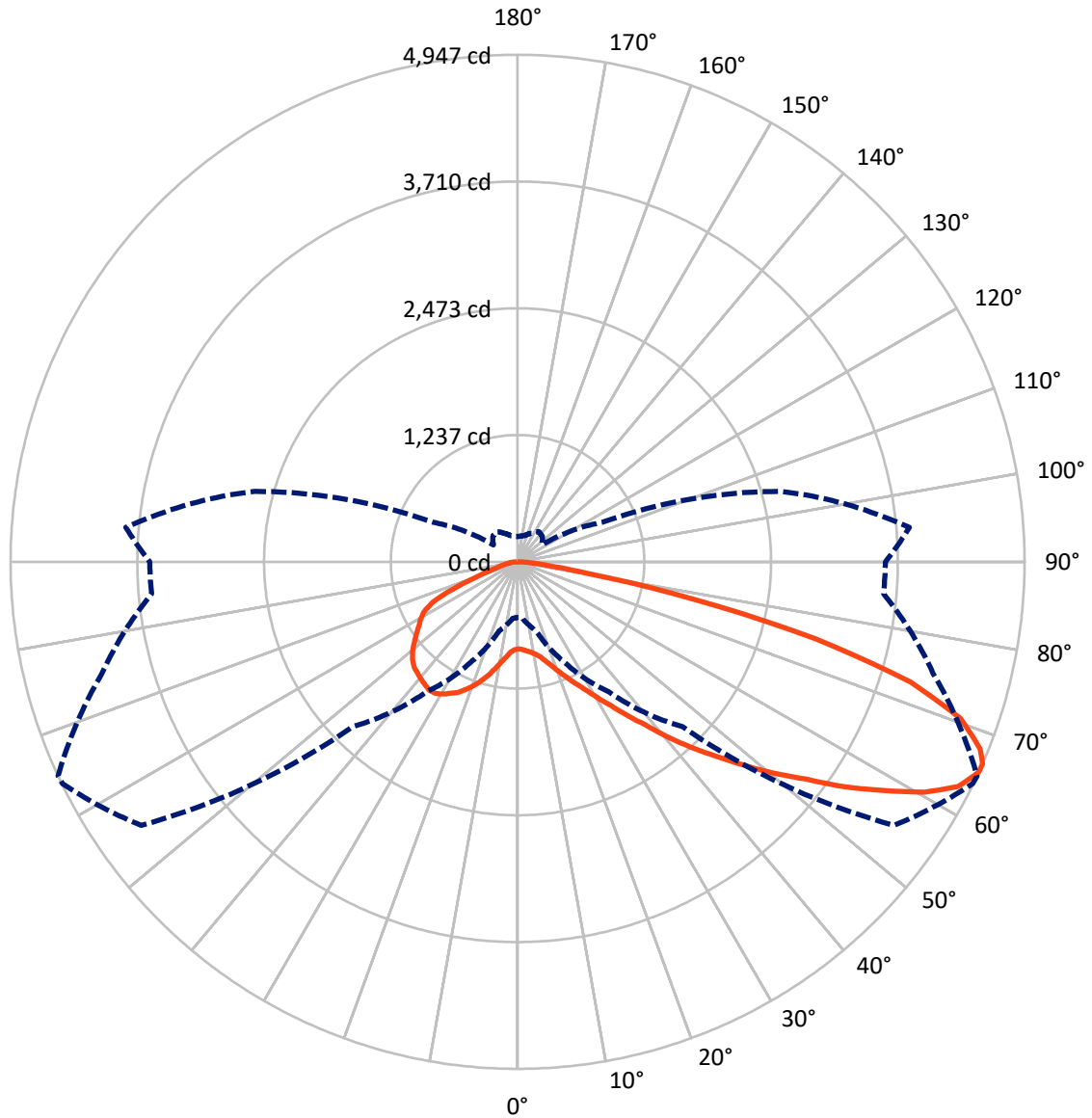
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9.4 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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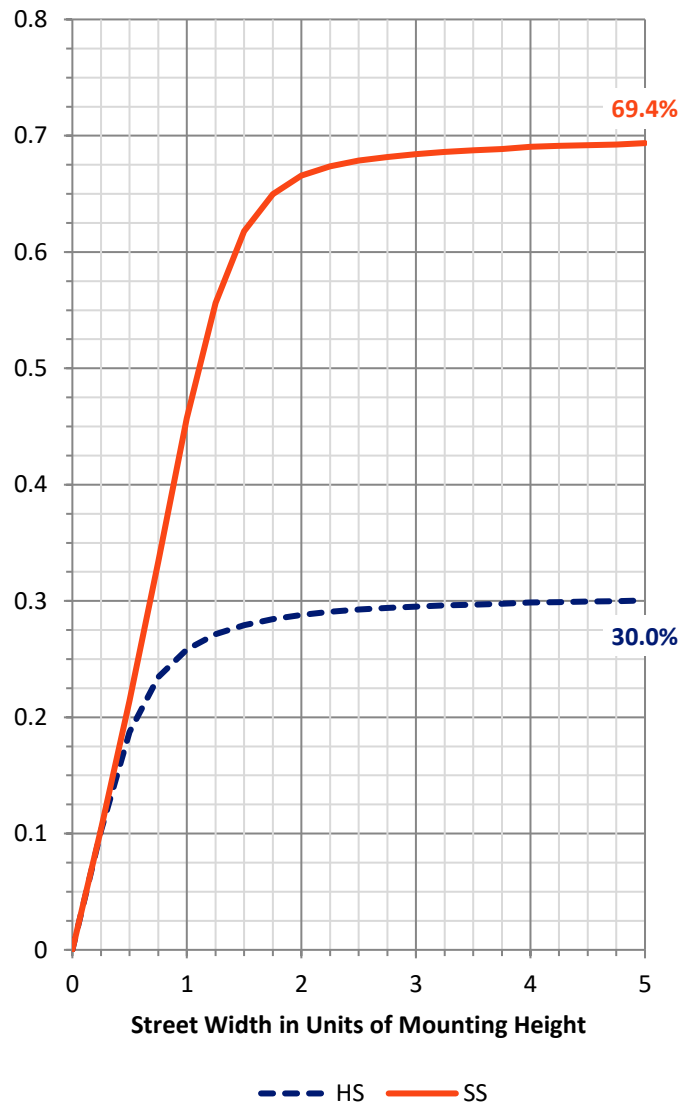
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2589.1	0.0	2589.1
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	5937.9	0.0	5937.9
	% Fixture	69.6	0.0	69.6
Total	Lumens	8527.0	0.0	8527.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	1.0
10°-20°	302.2	3.5
20°-30°	591.9	6.9
30°-40°	967.1	11.3
40°-50°	1535.0	18.0
50°-60°	1974.3	23.2
60°-70°	1780.4	20.9
70°-80°	1104.3	13.0
80°-90°	185.0	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°	8527.0	100.0
0°-180°	8527.0	100.0

Coefficient of Utilization



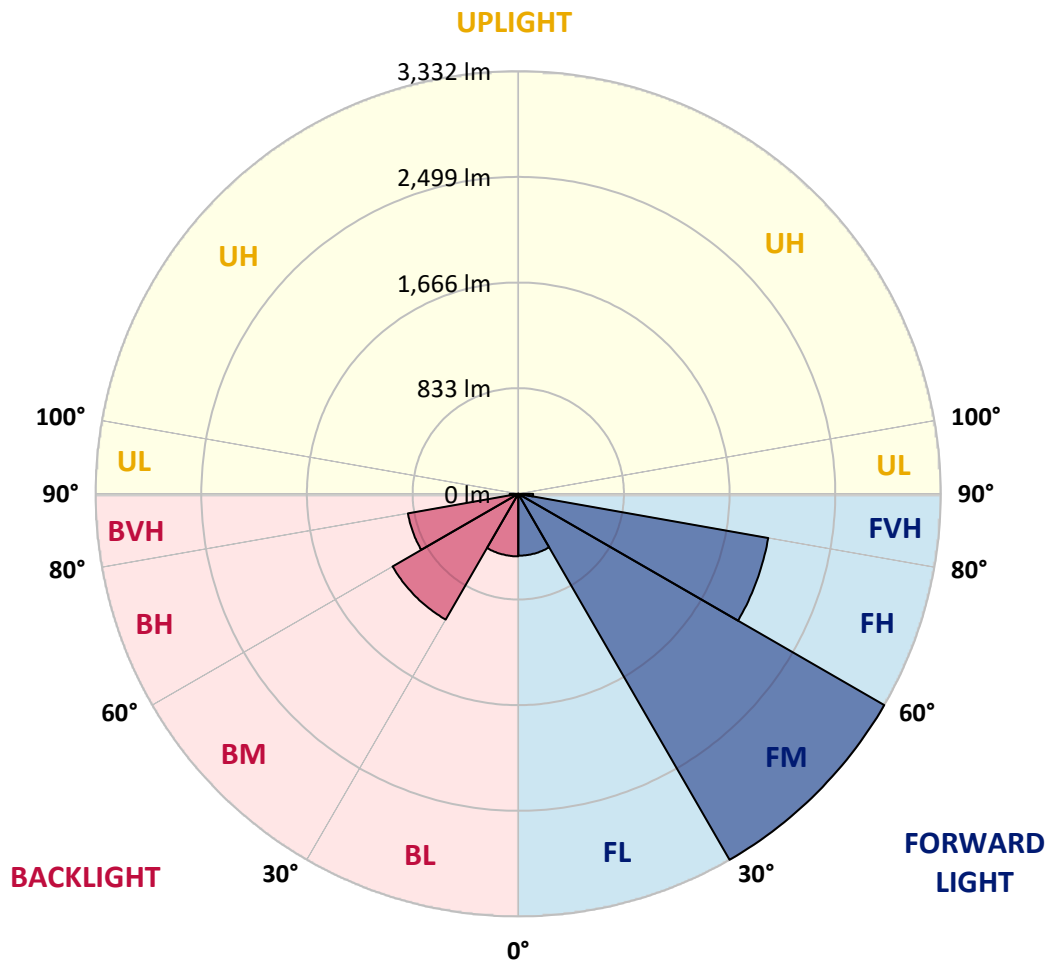
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	487.6	5.7			
FM (30°-60°)	3331.9	39.1			
FH (60°-80°)	2001.3	23.5			G2/5000
FVH (80°-90°)	117.0	1.4			G2/225
BL (0°-30°)	493.1	5.8	B1/500		
BM (30°-60°)	1144.6	13.4	B2/2500		
BH (60°-80°)	883.4	10.4	B2/1000		G2/1000
BVH (80°-90°)	68.0	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°	849.9	849.9	849.9	849.9	849.9	849.9	849.9	849.9	849.9	849.9	849.9
2.5°	852.0	854.1	856.1	852.0	856.1	858.2	854.1	854.1	856.1	852.0	852.0
5°	845.8	847.9	852.0	854.1	862.3	866.5	868.6	868.6	870.6	868.6	870.6
7.5°	829.3	829.3	837.5	841.7	854.1	868.6	876.8	889.2	889.2	891.3	897.5
10°	845.8	845.8	852.0	858.2	868.6	881.0	893.4	907.8	912.0	926.5	934.7
12.5°	870.6	874.8	883.0	891.3	903.7	918.2	928.5	943.0	945.1	959.5	976.1
15°	912.0	916.1	920.3	930.6	947.1	965.7	984.4	994.7	998.8	1007.1	1019.5
17.5°	974.0	978.2	980.2	986.4	998.8	1023.6	1050.5	1058.8	1062.9	1062.9	1073.3
20°	1079.5	1077.4	1073.3	1060.9	1060.9	1083.6	1120.8	1135.3	1139.5	1131.2	1125.0
22.5°	1201.5	1199.4	1182.9	1168.4	1158.1	1162.2	1199.4	1224.2	1222.2	1205.6	1180.8
25°	1360.7	1364.9	1338.0	1300.8	1269.7	1261.5	1284.2	1309.0	1313.2	1282.1	1240.8
27.5°	1551.0	1544.8	1530.3	1470.3	1410.4	1373.1	1385.5	1412.4	1414.5	1381.4	1315.2
30°	1774.3	1764.0	1726.8	1664.7	1571.7	1520.0	1509.6	1532.4	1538.6	1482.7	1387.6
32.5°	2022.5	2012.1	1964.6	1869.5	1768.1	1681.3	1648.2	1679.2	1675.1	1611.0	1478.6
35°	2322.3	2320.3	2233.4	2115.5	1987.3	1871.5	1826.0	1826.0	1838.4	1743.3	1594.4
37.5°	2723.5	2740.1	2611.9	2427.8	2247.9	2092.8	2016.3	2012.1	2014.2	1910.8	1724.7
40°	3085.4	3079.2	3004.8	2833.1	2570.5	2372.0	2258.2	2233.4	2239.6	2107.3	1894.3
42.5°	3294.3	3300.5	3281.9	3207.4	2977.9	2727.7	2533.3	2467.1	2469.2	2303.7	2055.6
45°	3424.6	3430.8	3428.7	3465.9	3374.9	3139.2	2862.1	2709.1	2700.8	2527.1	2245.8
47.5°	3499.0	3503.2	3530.0	3606.6	3681.0	3627.2	3226.0	2977.9	2961.3	2735.9	2436.1
50°	3416.3	3418.4	3525.9	3707.9	3889.9	4053.2	3598.3	3244.7	3240.5	2967.5	2622.2
52.5°	2982.0	3019.2	3257.1	3637.6	4045.0	4355.2	4028.4	3559.0	3523.8	3186.8	2808.3
55°	2434.0	2450.6	2723.5	3207.4	4016.0	4541.3	4353.1	3898.1	3873.3	3430.8	2990.3
57.5°	1900.5	1917.0	2241.7	2644.9	3573.5	4530.9	4582.6	4264.2	4208.3	3643.8	3172.3
60°	1226.3	1278.0	1654.4	2150.7	2893.1	4216.6	4698.4	4615.7	4564.0	3854.7	3327.4
62.5°	833.4	841.7	1077.4	1594.4	2165.2	3426.6	4690.2	4832.9	4824.6	4065.6	3482.5
65°	541.8	554.2	696.9	1079.5	1548.9	2274.8	4483.4	4938.3	4946.6	4195.9	3583.8
66°	459.1	467.4	577.0	907.8	1356.6	1803.3	4301.4	4930.1	4946.6	4255.9	3614.8
67.5°	399.1	405.3	461.2	670.0	1108.4	1296.6	3827.8	4820.5	4868.0	4311.7	3654.1
70°	343.3	351.6	403.3	457.0	792.0	756.9	2423.7	4539.2	4586.8	4338.6	3678.9
72.5°	283.3	289.5	341.2	413.6	574.9	508.7	1069.1	3885.7	4005.7	4239.4	3639.6
75°	223.3	227.5	275.0	345.4	440.5	397.1	465.3	2849.7	3000.6	3736.8	3486.6
77.5°	173.7	175.8	213.0	268.8	403.3	308.1	287.4	1387.6	1755.7	2886.9	3070.9
80°	119.9	124.1	157.2	202.7	295.7	244.0	192.3	541.8	688.6	1917.0	2328.5
82.5°	78.6	80.7	107.5	153.0	196.5	233.7	126.1	262.6	289.5	883.0	1009.2
85°	53.8	53.8	76.5	95.1	134.4	155.1	82.7	138.6	151.0	335.0	122.0
87.5°	26.9	26.9	37.2	49.6	64.1	60.0	49.6	49.6	49.6	109.6	35.2
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°	849.9	849.9	849.9	849.9	849.9	849.9	849.9	849.9	849.9	849.9	849.9
2.5°	854.1	854.1	856.1	858.2	860.3	860.3	862.3	862.3	860.3	862.3	864.4
5°	872.7	874.8	878.9	885.1	895.4	905.8	916.1	922.3	928.5	930.6	926.5
7.5°	901.6	905.8	920.3	936.8	953.3	978.2	992.6	1000.9	1005.0	1009.2	1005.0
10°	938.9	947.1	967.8	996.8	1025.7	1056.7	1073.3	1085.7	1087.8	1091.9	1087.8
12.5°	982.3	996.8	1027.8	1069.1	1104.3	1135.3	1147.7	1139.5	1120.8	1112.6	1110.5
15°	1034.0	1048.5	1091.9	1143.6	1185.0	1199.4	1180.8	1153.9	1133.3	1131.2	1129.1
17.5°	1079.5	1100.2	1160.1	1213.9	1253.2	1238.7	1189.1	1172.5	1166.3	1174.6	1172.5
20°	1137.4	1153.9	1213.9	1280.1	1300.8	1244.9	1209.8	1199.4	1193.2	1193.2	1189.1
22.5°	1185.0	1197.4	1269.7	1342.1	1329.7	1249.1	1224.2	1203.6	1182.9	1180.8	1174.6
25°	1240.8	1244.9	1321.4	1400.0	1333.8	1253.2	1209.8	1174.6	1153.9	1147.7	1149.8
27.5°	1292.5	1302.8	1369.0	1439.3	1323.5	1230.4	1160.1	1114.6	1083.6	1081.6	1081.6
30°	1358.7	1358.7	1418.6	1482.7	1300.8	1172.5	1079.5	1013.3	988.5	986.4	982.3
32.5°	1433.1	1420.7	1478.6	1513.8	1251.1	1094.0	969.9	895.4	856.1	847.9	841.7
35°	1536.5	1509.6	1551.0	1520.0	1201.5	982.3	831.3	746.5	717.6	705.2	705.2
37.5°	1656.5	1617.2	1660.6	1501.4	1125.0	852.0	686.6	622.5	591.4	572.8	579.0
40°	1797.1	1747.4	1772.3	1480.7	1042.3	707.2	566.6	527.3	490.1	465.3	465.3
42.5°	1962.5	1879.8	1898.4	1460.0	924.4	581.1	490.1	463.2	434.3	409.5	415.7
45°	2121.7	2041.1	2022.5	1439.3	800.3	496.3	459.1	440.5	413.6	384.6	384.6
47.5°	2305.8	2202.4	2132.1	1402.1	678.3	469.4	467.4	440.5	388.8	347.4	343.3
50°	2479.5	2384.4	2231.3	1346.3	610.1	492.2	465.3	401.2	351.6	324.7	322.6
52.5°	2663.6	2564.3	2312.0	1278.0	574.9	481.8	428.1	368.1	330.9	304.0	297.8
55°	2845.5	2793.8	2384.4	1211.8	519.1	448.8	397.1	347.4	308.1	283.3	279.2
57.5°	3052.3	3031.7	2446.4	1145.7	432.2	407.4	374.3	332.9	295.7	277.1	275.0
60°	3232.2	3304.6	2520.9	1096.0	368.1	376.4	364.0	330.9	304.0	283.3	283.3
62.5°	3422.5	3567.3	2587.0	1031.9	320.5	357.8	366.0	328.8	293.7	275.0	275.0
65°	3587.9	3836.1	2655.3	914.0	287.4	343.3	359.8	306.1	264.7	250.2	246.1
66°	3658.3	3912.6	2676.0	841.7	275.0	332.9	349.5	293.7	252.3	239.9	237.8
67.5°	3741.0	4032.6	2700.8	686.6	256.4	310.2	326.7	275.0	231.6	223.3	219.2
70°	3856.8	4057.4	2686.3	448.8	223.3	266.8	291.6	246.1	206.8	200.6	194.4
72.5°	3869.2	3887.8	2541.5	283.3	194.4	229.5	256.4	221.3	182.0	175.8	171.6
75°	3664.5	3445.3	2150.7	202.7	171.6	202.7	225.4	192.3	151.0	142.7	138.6
77.5°	3128.9	2733.9	1546.8	151.0	148.9	173.7	188.2	167.5	126.1	119.9	117.9
80°	2196.2	1855.0	775.5	113.7	117.9	144.8	157.2	140.6	105.5	97.2	93.1
82.5°	889.2	787.9	266.8	84.8	88.9	109.6	134.4	115.8	80.7	70.3	62.0
85°	101.3	171.6	115.8	57.9	60.0	74.4	91.0	70.3	47.6	39.3	33.1
87.5°	20.7	37.2	41.4	22.7	20.7	29.0	41.4	24.8	16.5	6.2	8.3
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)