

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: P594725

Luminaire Tested: **ISS-PA1D-740-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594725
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-PA1D-740-U-T2U
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8621 lumens
Efficiency: N/A
Efficacy: 136.8 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

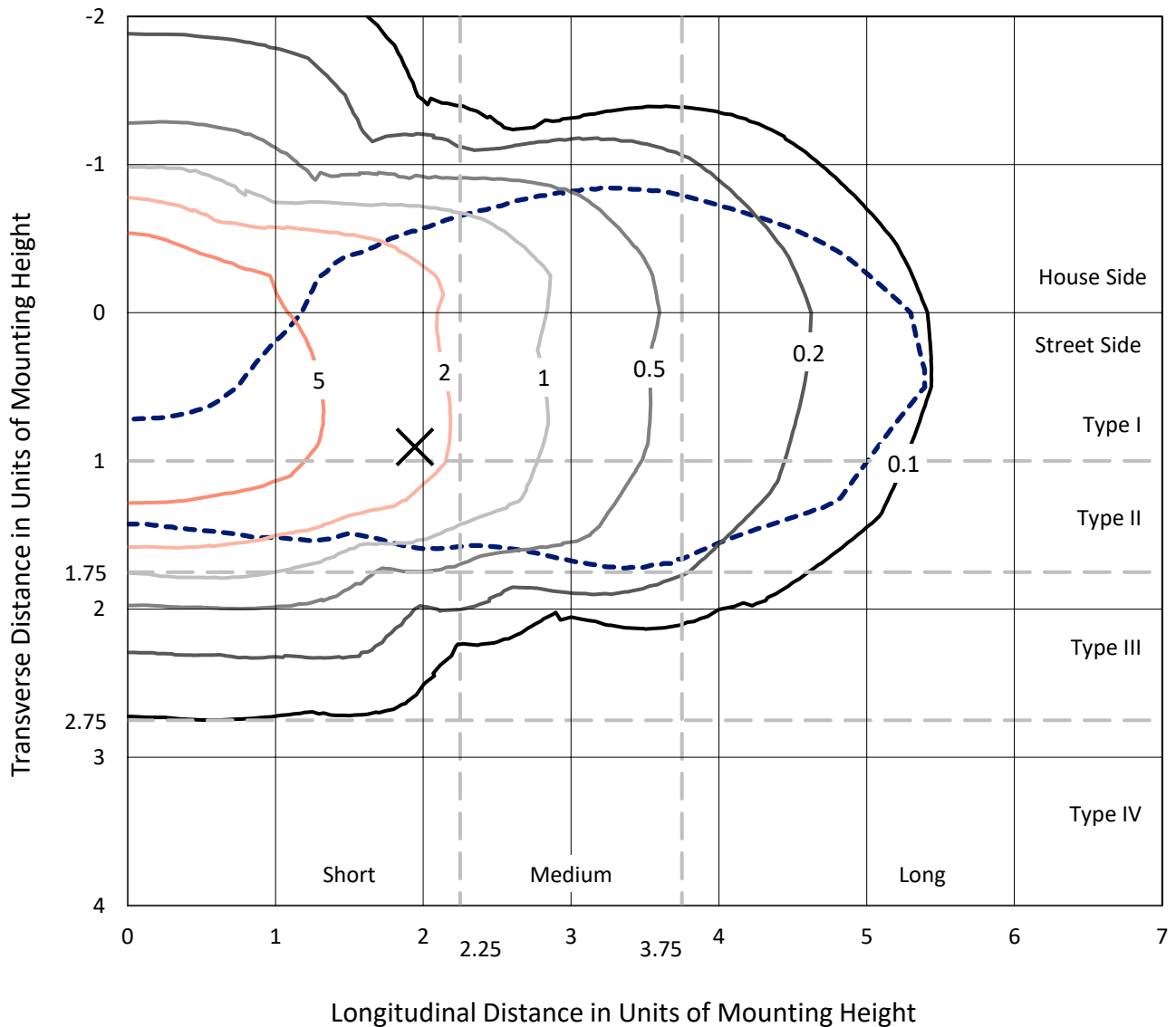
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

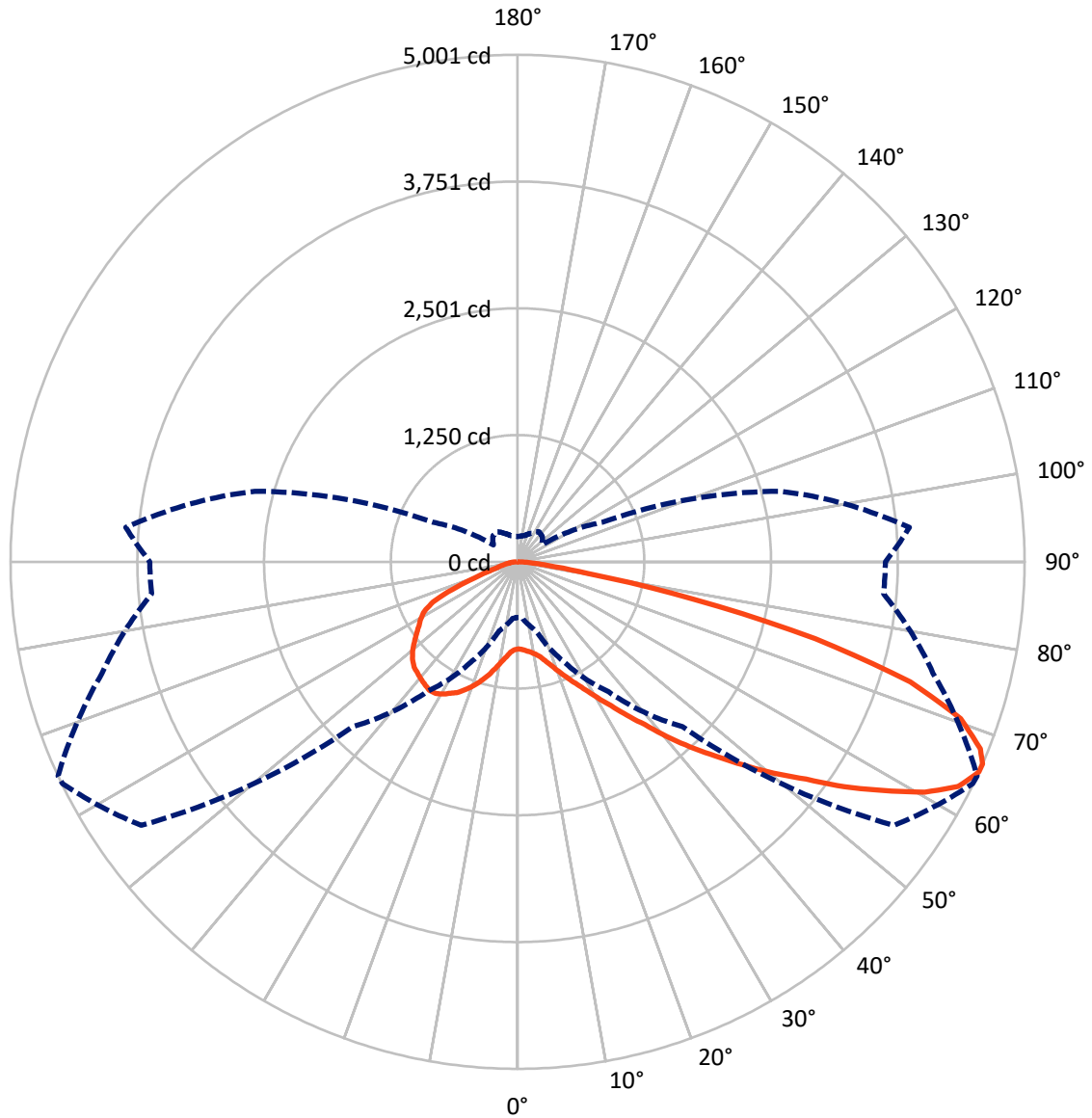
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9.5 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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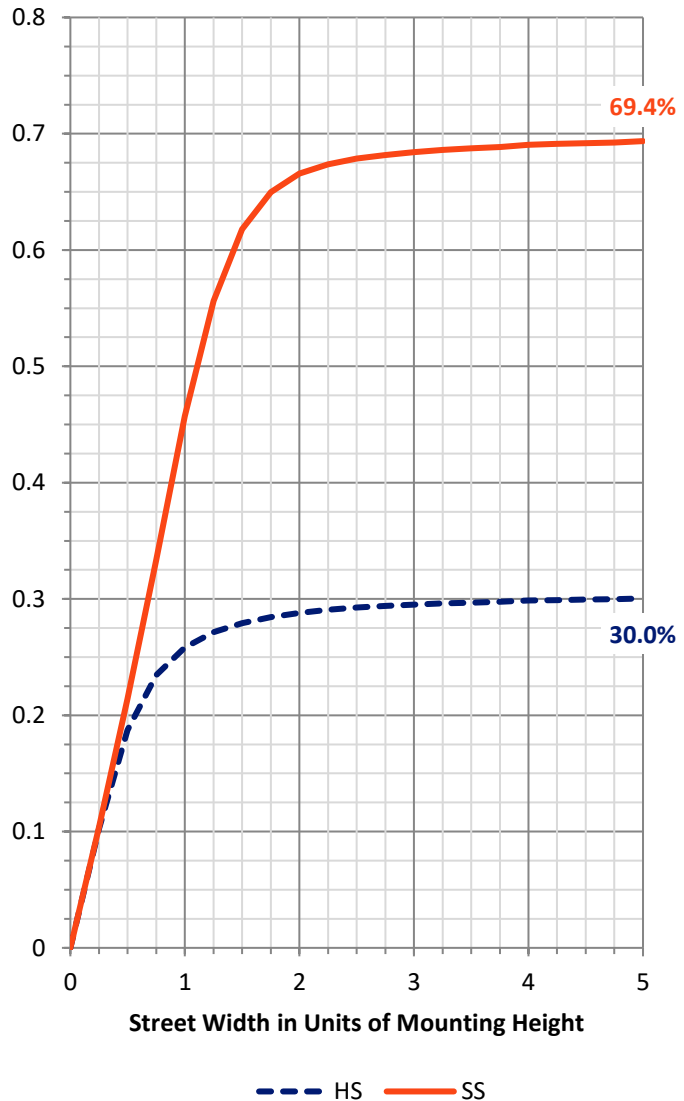
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2617.7	0.0	2617.7
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	6003.3	0.0	6003.3
	% Fixture	69.6	0.0	69.6
Total	Lumens	8621.0	0.0	8621.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.6	1.0
10°-20°	305.6	3.5
20°-30°	598.4	6.9
30°-40°	977.8	11.3
40°-50°	1552.0	18.0
50°-60°	1996.1	23.2
60°-70°	1800.1	20.9
70°-80°	1116.5	13.0
80°-90°	187.1	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°	8621.0	100.0
0°-180°	8621.0	100.0

Coefficient of Utilization



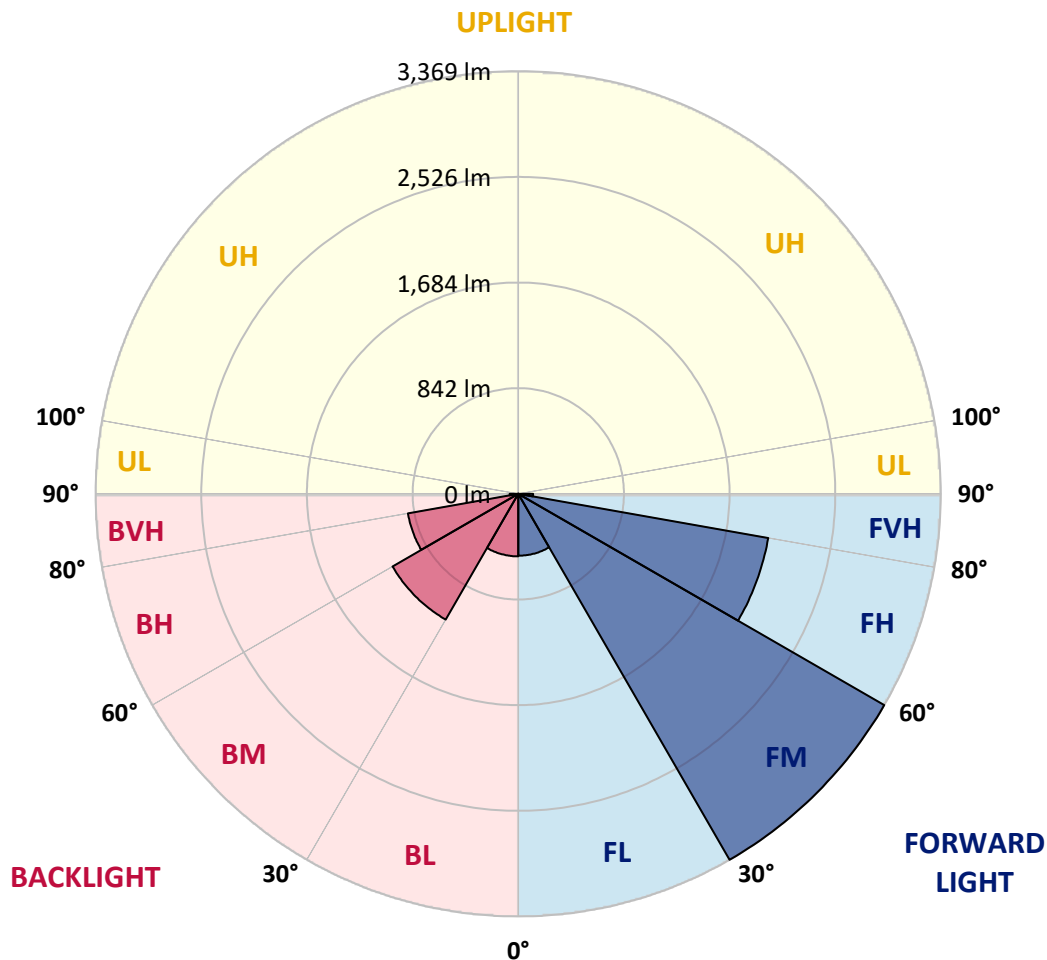
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	493.0	5.7			
FM (30°-60°)	3368.6	39.1			
FH (60°-80°)	2023.4	23.5			G2/5000
FVH (80°-90°)	118.3	1.4			G2/225
BL (0°-30°)	498.6	5.8	B1/500		
BM (30°-60°)	1157.2	13.4	B2/2500		
BH (60°-80°)	893.2	10.4	B2/1000		G2/1000
BVH (80°-90°)	68.7	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°	859.3	859.3	859.3	859.3	859.3	859.3	859.3	859.3	859.3	859.3	859.3
2.5°	861.4	863.5	865.6	861.4	865.6	867.7	863.5	863.5	865.6	861.4	861.4
5°	855.1	857.2	861.4	863.5	871.9	876.0	878.1	878.1	880.2	878.1	880.2
7.5°	838.4	838.4	846.8	850.9	863.5	878.1	886.5	899.0	899.0	901.1	907.4
10°	855.1	855.1	861.4	867.7	878.1	890.7	903.2	917.9	922.0	936.7	945.0
12.5°	880.2	884.4	892.8	901.1	913.7	928.3	938.8	953.4	955.5	970.1	986.8
15°	922.0	926.2	930.4	940.8	957.6	976.4	995.2	1005.7	1009.8	1018.2	1030.8
17.5°	984.8	988.9	991.0	997.3	1009.8	1034.9	1062.1	1070.5	1074.7	1074.7	1085.1
20°	1091.4	1089.3	1085.1	1072.6	1072.6	1095.6	1133.2	1147.8	1152.0	1143.7	1137.4
22.5°	1214.7	1212.6	1195.9	1181.3	1170.8	1175.0	1212.6	1237.7	1235.6	1218.9	1193.8
25°	1375.7	1379.9	1352.7	1315.1	1283.7	1275.4	1298.4	1323.5	1327.6	1296.3	1254.5
27.5°	1568.1	1561.8	1547.2	1486.5	1425.9	1388.3	1400.8	1428.0	1430.1	1396.6	1329.7
30°	1793.9	1783.4	1745.8	1683.1	1589.0	1536.7	1526.3	1549.3	1555.5	1499.1	1402.9
32.5°	2044.8	2034.3	1986.2	1890.1	1787.6	1699.8	1666.3	1697.7	1693.5	1628.7	1494.9
35°	2347.9	2345.8	2258.0	2138.9	2009.2	1892.2	1846.2	1846.2	1858.7	1762.5	1612.0
37.5°	2753.6	2770.3	2640.6	2454.6	2272.7	2115.9	2038.5	2034.3	2036.4	1931.9	1743.7
40°	3119.4	3113.2	3037.9	2864.4	2598.8	2398.1	2283.1	2258.0	2264.3	2130.5	1915.1
42.5°	3330.6	3336.9	3318.1	3242.8	3010.7	2757.7	2561.2	2494.3	2496.4	2329.1	2078.2
45°	3462.3	3468.6	3466.5	3504.1	3412.1	3173.8	2893.6	2738.9	2730.6	2554.9	2270.6
47.5°	3537.6	3541.8	3569.0	3646.3	3721.6	3667.2	3261.6	3010.7	2994.0	2766.1	2462.9
50°	3454.0	3456.1	3564.8	3748.8	3932.7	4097.9	3637.9	3280.4	3276.2	3000.3	2651.1
52.5°	3014.9	3052.5	3293.0	3677.7	4089.6	4403.2	4072.8	3598.2	3562.7	3221.9	2839.3
55°	2460.8	2477.6	2753.6	3242.8	4060.3	4591.3	4401.1	3941.1	3916.0	3468.6	3023.3
57.5°	1921.4	1938.1	2266.4	2674.1	3612.9	4580.9	4633.2	4311.2	4254.7	3683.9	3207.2
60°	1239.8	1292.1	1672.6	2174.4	2925.0	4263.1	4750.2	4666.6	4614.3	3897.2	3364.1
62.5°	842.6	850.9	1089.3	1612.0	2189.0	3464.4	4741.9	4886.1	4877.8	4110.5	3520.9
65°	547.8	560.3	704.6	1091.4	1566.0	2299.9	4532.8	4992.8	5001.1	4242.2	3623.3
66°	464.2	472.5	583.3	917.9	1371.5	1823.2	4348.8	4984.4	5001.1	4302.8	3654.7
67.5°	403.5	409.8	466.2	677.4	1120.7	1310.9	3870.0	4873.6	4921.7	4359.3	3694.4
70°	347.1	355.4	407.7	462.1	800.8	765.2	2450.4	4589.3	4637.3	4386.4	3719.5
72.5°	286.4	292.7	345.0	418.2	581.2	514.3	1080.9	3928.6	4049.8	4286.1	3679.8
75°	225.8	230.0	278.1	349.2	445.3	401.4	470.4	2881.1	3033.7	3778.0	3525.0
77.5°	175.6	177.7	215.3	271.8	407.7	311.5	290.6	1402.9	1775.1	2918.7	3104.8
80°	121.3	125.4	158.9	204.9	299.0	246.7	194.4	547.8	696.2	1938.1	2354.2
82.5°	79.4	81.5	108.7	154.7	198.6	236.3	127.5	265.5	292.7	892.8	1020.3
85°	54.4	54.4	77.4	96.2	135.9	156.8	83.6	140.1	152.6	338.7	123.4
87.5°	27.2	27.2	37.6	50.2	64.8	60.6	50.2	50.2	50.2	110.8	35.5
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°	859.3	859.3	859.3	859.3	859.3	859.3	859.3	859.3	859.3	859.3	859.3
2.5°	863.5	863.5	865.6	867.7	869.8	869.8	871.9	871.9	869.8	871.9	873.9
5°	882.3	884.4	888.6	894.9	905.3	915.8	926.2	932.5	938.8	940.8	936.7
7.5°	911.6	915.8	930.4	947.1	963.8	988.9	1003.6	1011.9	1016.1	1020.3	1016.1
10°	949.2	957.6	978.5	1007.8	1037.0	1068.4	1085.1	1097.7	1099.7	1103.9	1099.7
12.5°	993.1	1007.8	1039.1	1080.9	1116.5	1147.8	1160.4	1152.0	1133.2	1124.8	1122.7
15°	1045.4	1060.0	1103.9	1156.2	1198.0	1212.6	1193.8	1166.7	1145.7	1143.7	1141.6
17.5°	1091.4	1112.3	1172.9	1227.3	1267.0	1252.4	1202.2	1185.5	1179.2	1187.6	1185.5
20°	1149.9	1166.7	1227.3	1294.2	1315.1	1258.6	1223.1	1212.6	1206.4	1206.4	1202.2
22.5°	1198.0	1210.6	1283.7	1356.9	1344.4	1262.8	1237.7	1216.8	1195.9	1193.8	1187.6
25°	1254.5	1258.6	1336.0	1415.5	1348.5	1267.0	1223.1	1187.6	1166.7	1160.4	1162.5
27.5°	1306.7	1317.2	1384.1	1455.2	1338.1	1244.0	1172.9	1126.9	1095.6	1093.5	1093.5
30°	1373.6	1373.6	1434.3	1499.1	1315.1	1185.5	1091.4	1024.5	999.4	997.3	993.1
32.5°	1448.9	1436.4	1494.9	1530.4	1264.9	1106.0	980.6	905.3	865.6	857.2	850.9
35°	1553.4	1526.3	1568.1	1536.7	1214.7	993.1	840.5	754.8	725.5	713.0	713.0
37.5°	1674.7	1635.0	1678.9	1517.9	1137.4	861.4	694.1	629.3	598.0	579.1	585.4
40°	1816.9	1766.7	1791.8	1497.0	1053.8	715.0	572.9	533.1	495.5	470.4	470.4
42.5°	1984.1	1900.5	1919.3	1476.1	934.6	587.5	495.5	468.3	439.1	414.0	420.2
45°	2145.1	2063.6	2044.8	1455.2	809.1	501.8	464.2	445.3	418.2	388.9	388.9
47.5°	2331.2	2226.7	2155.6	1417.5	685.8	474.6	472.5	445.3	393.1	351.3	347.1
50°	2506.8	2410.7	2255.9	1361.1	616.8	497.6	470.4	405.6	355.4	328.3	326.2
52.5°	2692.9	2592.6	2337.5	1292.1	581.2	487.2	432.8	372.2	334.5	307.3	301.1
55°	2876.9	2824.6	2410.7	1225.2	524.8	453.7	401.4	351.3	311.5	286.4	282.3
57.5°	3086.0	3065.1	2473.4	1158.3	437.0	411.9	378.4	336.6	299.0	280.2	278.1
60°	3267.9	3341.1	2548.7	1108.1	372.2	380.5	368.0	334.5	307.3	286.4	286.4
62.5°	3460.2	3606.6	2615.6	1043.3	324.1	361.7	370.1	332.4	296.9	278.1	278.1
65°	3627.5	3878.4	2684.6	924.1	290.6	347.1	363.8	309.4	267.6	253.0	248.8
66°	3698.6	3955.7	2705.5	850.9	278.1	336.6	353.3	296.9	255.1	242.5	240.4
67.5°	3782.2	4077.0	2730.6	694.1	259.3	313.6	330.3	278.1	234.2	225.8	221.6
70°	3899.3	4102.1	2715.9	453.7	225.8	269.7	294.8	248.8	209.1	202.8	196.5
72.5°	3911.8	3930.7	2569.6	286.4	196.5	232.1	259.3	223.7	184.0	177.7	173.5
75°	3704.9	3483.2	2174.4	204.9	173.5	204.9	227.9	194.4	152.6	144.3	140.1
77.5°	3163.3	2764.0	1563.9	152.6	150.5	175.6	190.3	169.4	127.5	121.3	119.2
80°	2220.4	1875.4	784.0	115.0	119.2	146.4	158.9	142.2	106.6	98.3	94.1
82.5°	899.0	796.6	269.7	85.7	89.9	110.8	135.9	117.1	81.5	71.1	62.7
85°	102.4	173.5	117.1	58.5	60.6	75.3	92.0	71.1	48.1	39.7	33.5
87.5°	20.9	37.6	41.8	23.0	20.9	29.3	41.8	25.1	16.7	6.3	8.4
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)