

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: P594923

Luminaire Tested: **ISS-PA1F-830-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594923
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-830-U-T2U
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 3000K, 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: 9218 lumens
Efficiency: N/A
Efficacy: 97.6 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

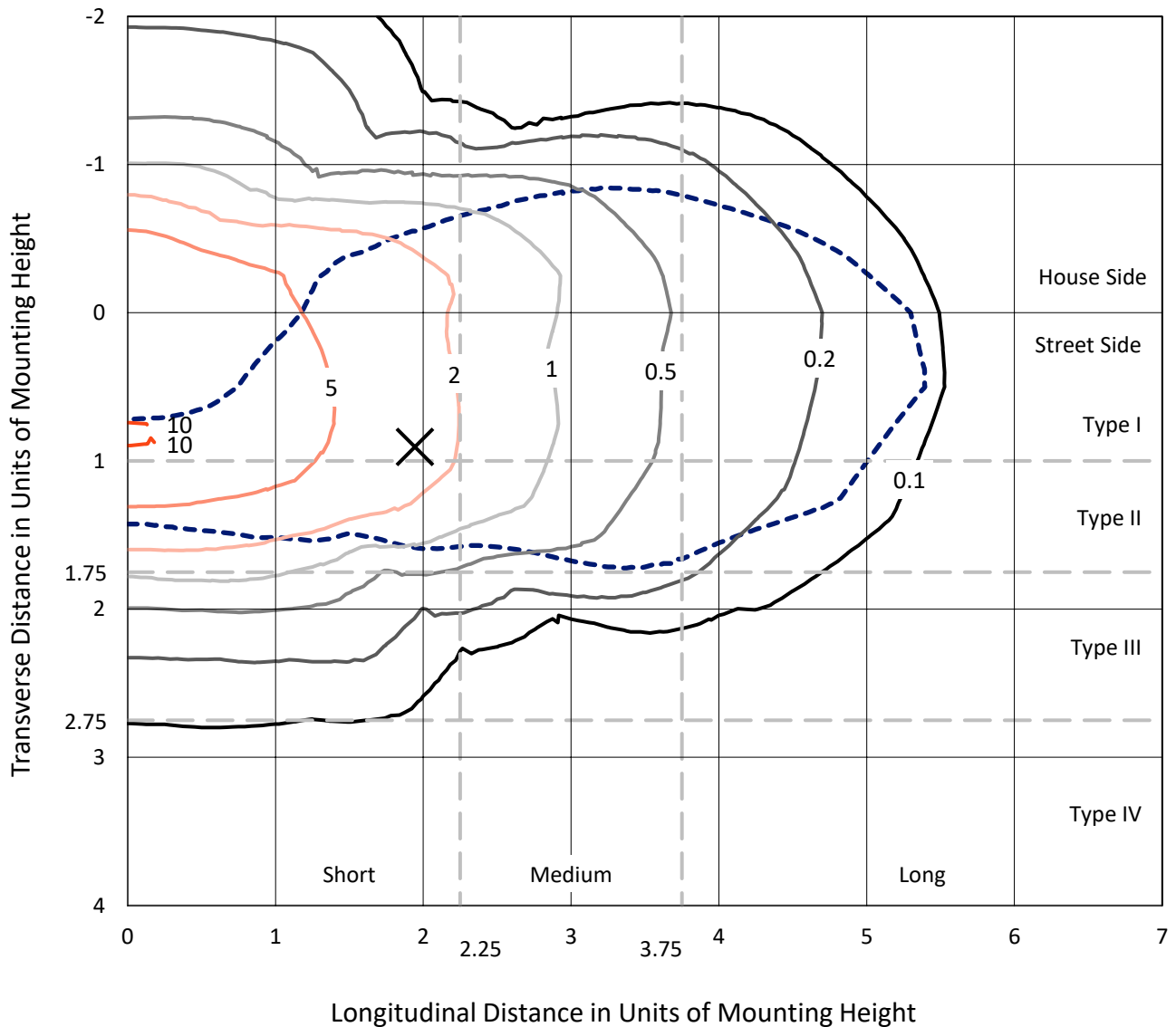
Input Watts (W): 94.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

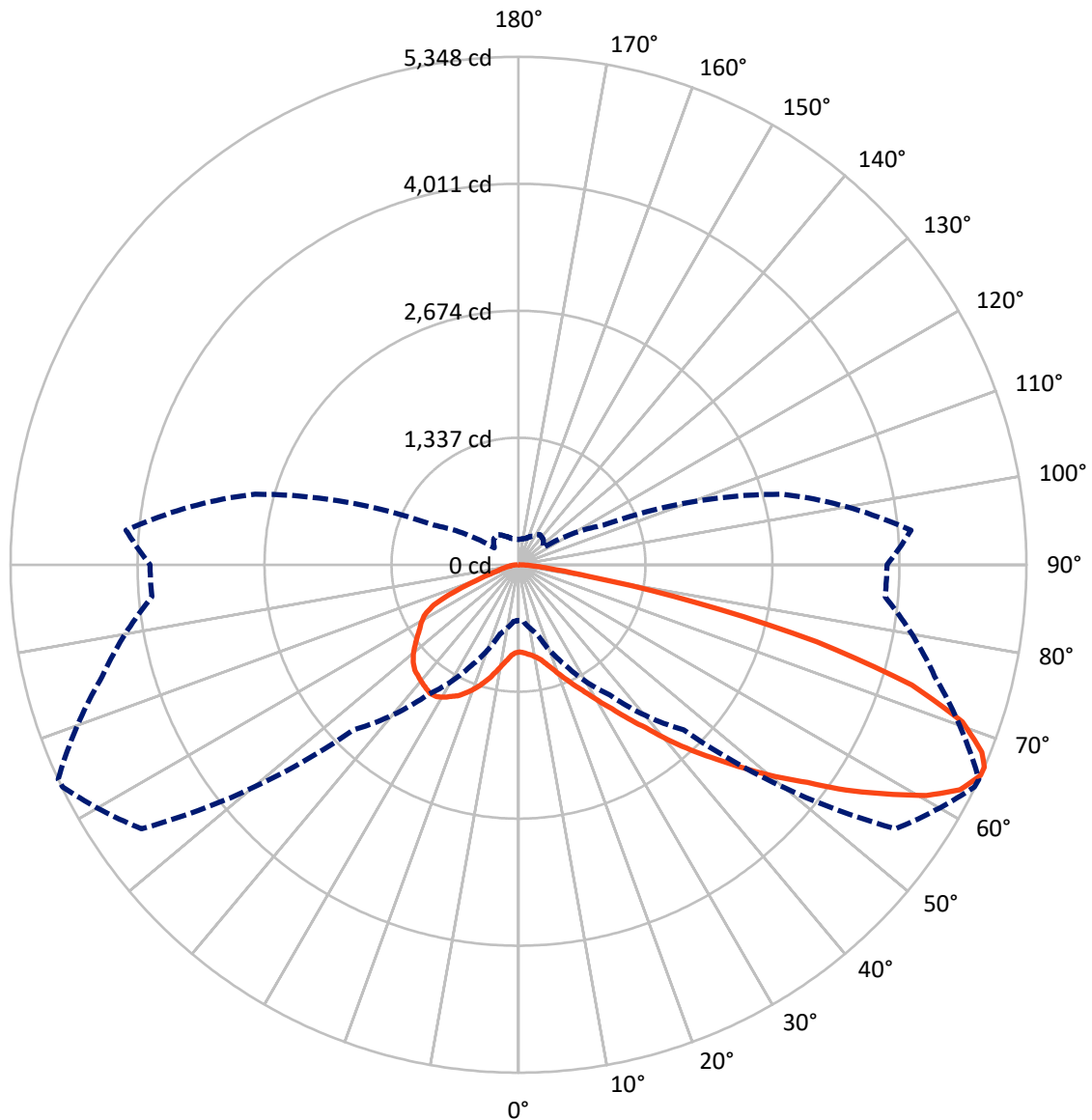
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 10.2 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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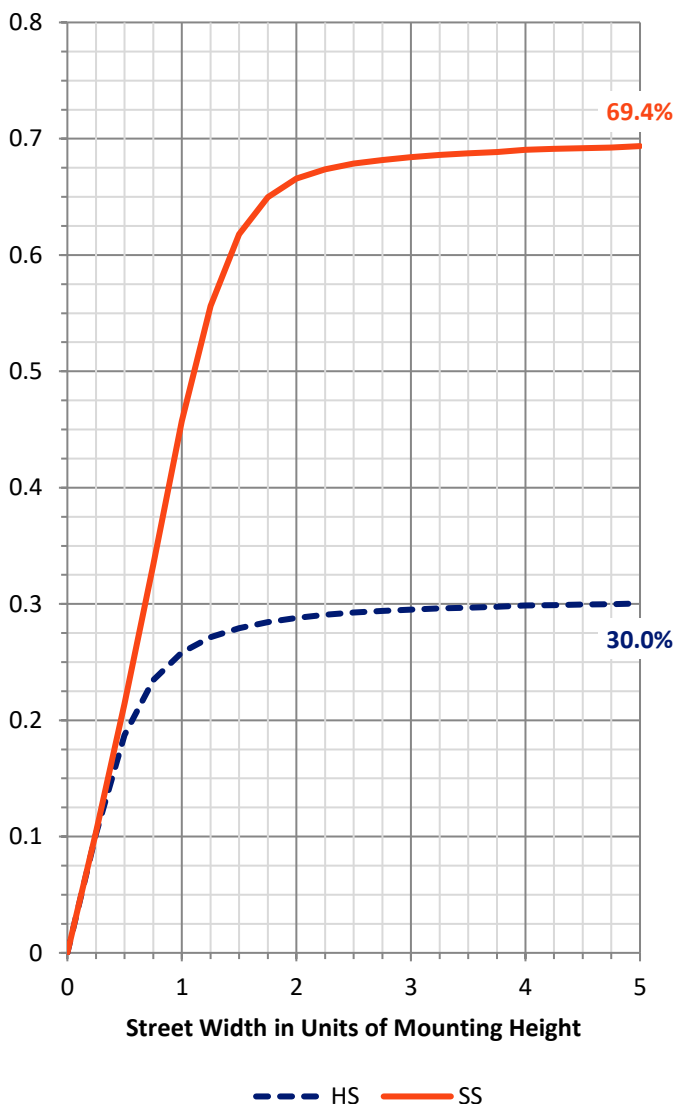
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2799.0	0.0	2799.0
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	6419.0	0.0	6419.0
	% Fixture	69.6	0.0	69.6
Total	Lumens	9218.0	0.0	9218.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.7	1.0
10°-20°	326.7	3.5
20°-30°	639.8	6.9
30°-40°	1045.5	11.3
40°-50°	1659.4	18.0
50°-60°	2134.3	23.2
60°-70°	1924.7	20.9
70°-80°	1193.8	13.0
80°-90°	200.0	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°	9218.0	100.0
0°-180°	9218.0	100.0

Coefficient of Utilization



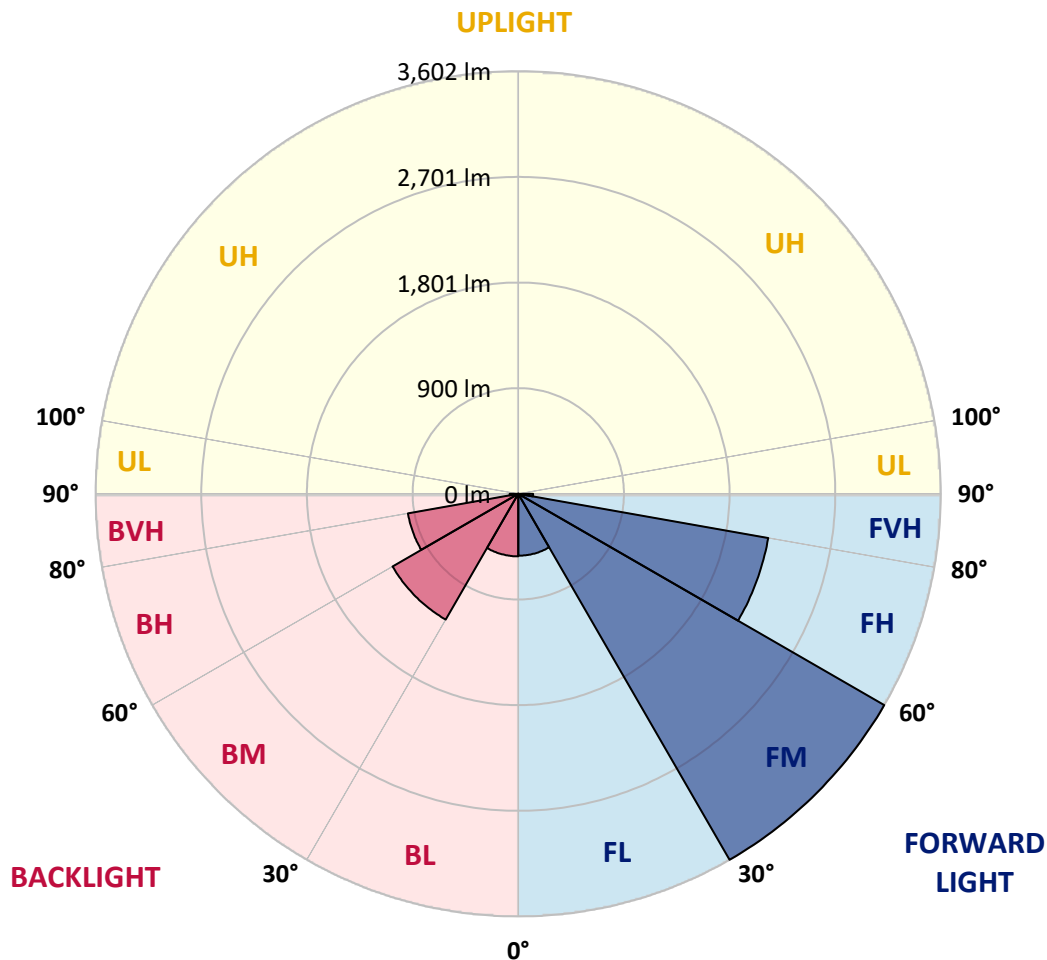
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	527.1	5.7			
FM (30°-60°)	3601.9	39.1			
FH (60°-80°)	2163.5	23.5			G2/5000
FVH (80°-90°)	126.5	1.4			G2/225
BL (0°-30°)	533.1	5.8	B2/1000		
BM (30°-60°)	1237.3	13.4	B2/2500		
BH (60°-80°)	955.0	10.4	B2/1000		G2/1000
BVH (80°-90°)	73.5	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°	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8
2.5°	921.1	923.3	925.5	921.1	925.5	927.8	923.3	923.3	925.5	921.1	921.1
5°	914.3	916.6	921.1	923.3	932.2	936.7	938.9	938.9	941.2	938.9	941.2
7.5°	896.5	896.5	905.4	909.9	923.3	938.9	947.9	961.3	961.3	963.5	970.2
10°	914.3	914.3	921.1	927.8	938.9	952.3	965.8	981.4	985.9	1001.5	1010.5
12.5°	941.2	945.6	954.6	963.5	976.9	992.6	1003.8	1019.4	1021.7	1037.3	1055.2
15°	985.9	990.4	994.8	1006.0	1023.9	1044.0	1064.1	1075.3	1079.8	1088.7	1102.1
17.5°	1052.9	1057.4	1059.7	1066.4	1079.8	1106.6	1135.7	1144.6	1149.1	1149.1	1160.3
20°	1167.0	1164.7	1160.3	1146.8	1146.8	1171.4	1211.7	1227.3	1231.8	1222.9	1216.1
22.5°	1298.9	1296.6	1278.7	1263.1	1251.9	1256.4	1296.6	1323.5	1321.2	1303.3	1276.5
25°	1471.0	1475.5	1446.4	1406.2	1372.6	1363.7	1388.3	1415.1	1419.6	1386.0	1341.3
27.5°	1676.7	1670.0	1654.3	1589.5	1524.7	1484.4	1497.8	1526.9	1529.1	1493.4	1421.8
30°	1918.1	1906.9	1866.7	1799.6	1699.0	1643.1	1632.0	1656.5	1663.3	1602.9	1500.1
32.5°	2186.4	2175.2	2123.8	2020.9	1911.4	1817.5	1781.7	1815.3	1810.8	1741.5	1598.4
35°	2510.5	2508.3	2414.4	2287.0	2148.4	2023.2	1974.0	1974.0	1987.4	1884.6	1723.6
37.5°	2944.2	2962.1	2823.5	2624.5	2430.1	2262.4	2179.7	2175.2	2177.4	2065.7	1864.5
40°	3335.5	3328.7	3248.3	3062.7	2778.8	2564.2	2441.2	2414.4	2421.1	2278.0	2047.8
42.5°	3561.2	3568.0	3547.8	3467.4	3219.2	2948.7	2738.6	2667.0	2669.3	2490.4	2222.1
45°	3702.1	3708.8	3706.6	3746.8	3648.4	3393.6	3094.0	2928.6	2919.6	2731.9	2427.8
47.5°	3782.6	3787.0	3816.1	3898.8	3979.3	3921.2	3487.5	3219.2	3201.3	2957.6	2633.5
50°	3693.1	3695.4	3811.6	4008.4	4205.1	4381.7	3889.9	3507.6	3503.1	3208.0	2834.7
52.5°	3223.7	3263.9	3521.0	3932.4	4372.8	4708.1	4354.9	3847.4	3809.4	3445.0	3035.9
55°	2631.3	2649.1	2944.2	3467.4	4341.5	4909.3	4705.9	4214.0	4187.2	3708.8	3232.6
57.5°	2054.5	2072.4	2423.3	2859.3	3863.0	4898.1	4954.0	4609.7	4549.4	3939.1	3429.3
60°	1325.7	1381.6	1788.4	2325.0	3127.5	4558.3	5079.2	4989.8	4933.9	4167.1	3597.0
62.5°	900.9	909.9	1164.7	1723.6	2340.6	3704.3	5070.3	5224.5	5215.6	4395.1	3764.7
65°	585.7	599.1	753.4	1167.0	1674.4	2459.1	4846.7	5338.5	5347.5	4536.0	3874.2
66°	496.3	505.2	623.7	981.4	1466.5	1949.4	4650.0	5329.6	5347.5	4600.8	3907.8
67.5°	431.5	438.2	498.5	724.3	1198.3	1401.7	4138.0	5211.1	5262.5	4661.1	3950.2
70°	371.1	380.0	435.9	494.1	856.2	818.2	2620.1	4907.1	4958.5	4690.2	3977.1
72.5°	306.3	313.0	368.9	447.1	621.5	549.9	1155.8	4200.6	4330.3	4582.9	3934.6
75°	241.4	245.9	297.3	373.3	476.2	429.2	503.0	3080.6	3243.8	4039.7	3769.2
77.5°	187.8	190.0	230.3	290.6	435.9	333.1	310.7	1500.1	1898.0	3120.8	3319.8
80°	129.7	134.1	169.9	219.1	319.7	263.8	207.9	585.7	744.4	2072.4	2517.2
82.5°	85.0	87.2	116.2	165.4	212.4	252.6	136.4	283.9	313.0	954.6	1091.0
85°	58.1	58.1	82.7	102.8	145.3	167.7	89.4	149.8	163.2	362.2	131.9
87.5°	29.1	29.1	40.2	53.7	69.3	64.8	53.7	53.7	53.7	118.5	38.0
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°	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8
2.5°	923.3	923.3	925.5	927.8	930.0	930.0	932.2	932.2	930.0	932.2	934.5
5°	943.4	945.6	950.1	956.8	968.0	979.2	990.4	997.1	1003.8	1006.0	1001.5
7.5°	974.7	979.2	994.8	1012.7	1030.6	1057.4	1073.1	1082.0	1086.5	1091.0	1086.5
10°	1014.9	1023.9	1046.2	1077.5	1108.8	1142.4	1160.3	1173.7	1175.9	1180.4	1175.9
12.5°	1061.9	1077.5	1111.1	1155.8	1193.8	1227.3	1240.7	1231.8	1211.7	1202.7	1200.5
15°	1117.8	1133.4	1180.4	1236.3	1281.0	1296.6	1276.5	1247.4	1225.1	1222.9	1220.6
17.5°	1167.0	1189.3	1254.1	1312.3	1354.7	1339.1	1285.4	1267.6	1260.9	1269.8	1267.6
20°	1229.6	1247.4	1312.3	1383.8	1406.2	1345.8	1307.8	1296.6	1289.9	1289.9	1285.4
22.5°	1281.0	1294.4	1372.6	1450.9	1437.5	1350.3	1323.5	1301.1	1278.7	1276.5	1269.8
25°	1341.3	1345.8	1428.5	1513.5	1441.9	1354.7	1307.8	1269.8	1247.4	1240.7	1243.0
27.5°	1397.2	1408.4	1479.9	1555.9	1430.8	1330.2	1254.1	1205.0	1171.4	1169.2	1169.2
30°	1468.8	1468.8	1533.6	1602.9	1406.2	1267.6	1167.0	1095.4	1068.6	1066.4	1061.9
32.5°	1549.2	1535.8	1598.4	1636.4	1352.5	1182.6	1048.5	968.0	925.5	916.6	909.9
35°	1661.0	1632.0	1676.7	1643.1	1298.9	1061.9	898.7	807.0	775.7	762.3	762.3
37.5°	1790.7	1748.2	1795.2	1623.0	1216.1	921.1	742.2	672.9	639.4	619.3	626.0
40°	1942.7	1889.0	1915.9	1600.7	1126.7	764.6	612.5	570.1	529.8	503.0	503.0
42.5°	2121.5	2032.1	2052.2	1578.3	999.3	628.2	529.8	500.8	469.5	442.6	449.3
45°	2293.7	2206.5	2186.4	1555.9	865.2	536.5	496.3	476.2	447.1	415.8	415.8
47.5°	2492.6	2380.9	2304.9	1515.7	733.3	507.5	505.2	476.2	420.3	375.6	371.1
50°	2680.4	2577.6	2412.2	1455.3	659.5	532.1	503.0	433.7	380.0	351.0	348.7
52.5°	2879.4	2772.1	2499.4	1381.6	621.5	520.9	462.8	397.9	357.7	328.6	321.9
55°	3076.1	3020.2	2577.6	1310.0	561.1	485.1	429.2	375.6	333.1	306.3	301.8
57.5°	3299.7	3277.3	2644.7	1238.5	467.2	440.4	404.6	359.9	319.7	299.6	297.3
60°	3494.2	3572.4	2725.1	1184.8	397.9	406.9	393.5	357.7	328.6	306.3	306.3
62.5°	3699.9	3856.3	2796.7	1115.5	346.5	386.8	395.7	355.5	317.4	297.3	297.3
65°	3878.7	4147.0	2870.5	988.1	310.7	371.1	389.0	330.9	286.2	270.5	266.0
66°	3954.7	4229.7	2892.8	909.9	297.3	359.9	377.8	317.4	272.7	259.3	257.1
67.5°	4044.1	4359.3	2919.6	742.2	277.2	335.3	353.2	297.3	250.4	241.4	237.0
70°	4169.3	4386.2	2904.0	485.1	241.4	288.4	315.2	266.0	223.6	216.8	210.1
72.5°	4182.7	4202.9	2747.5	306.3	210.1	248.1	277.2	239.2	196.7	190.0	185.6
75°	3961.4	3724.4	2325.0	219.1	185.6	219.1	243.7	207.9	163.2	154.3	149.8
77.5°	3382.4	2955.4	1672.2	163.2	161.0	187.8	203.4	181.1	136.4	129.7	127.4
80°	2374.2	2005.3	838.3	123.0	127.4	156.5	169.9	152.0	114.0	105.1	100.6
82.5°	961.3	851.7	288.4	91.7	96.1	118.5	145.3	125.2	87.2	76.0	67.1
85°	109.5	185.6	125.2	62.6	64.8	80.5	98.4	76.0	51.4	42.5	35.8
87.5°	22.4	40.2	44.7	24.6	22.4	31.3	44.7	26.8	17.9	6.7	8.9
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)