

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: P594927

Luminaire Tested: **ISS-PA1F-830-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)
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-T4W
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9052 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

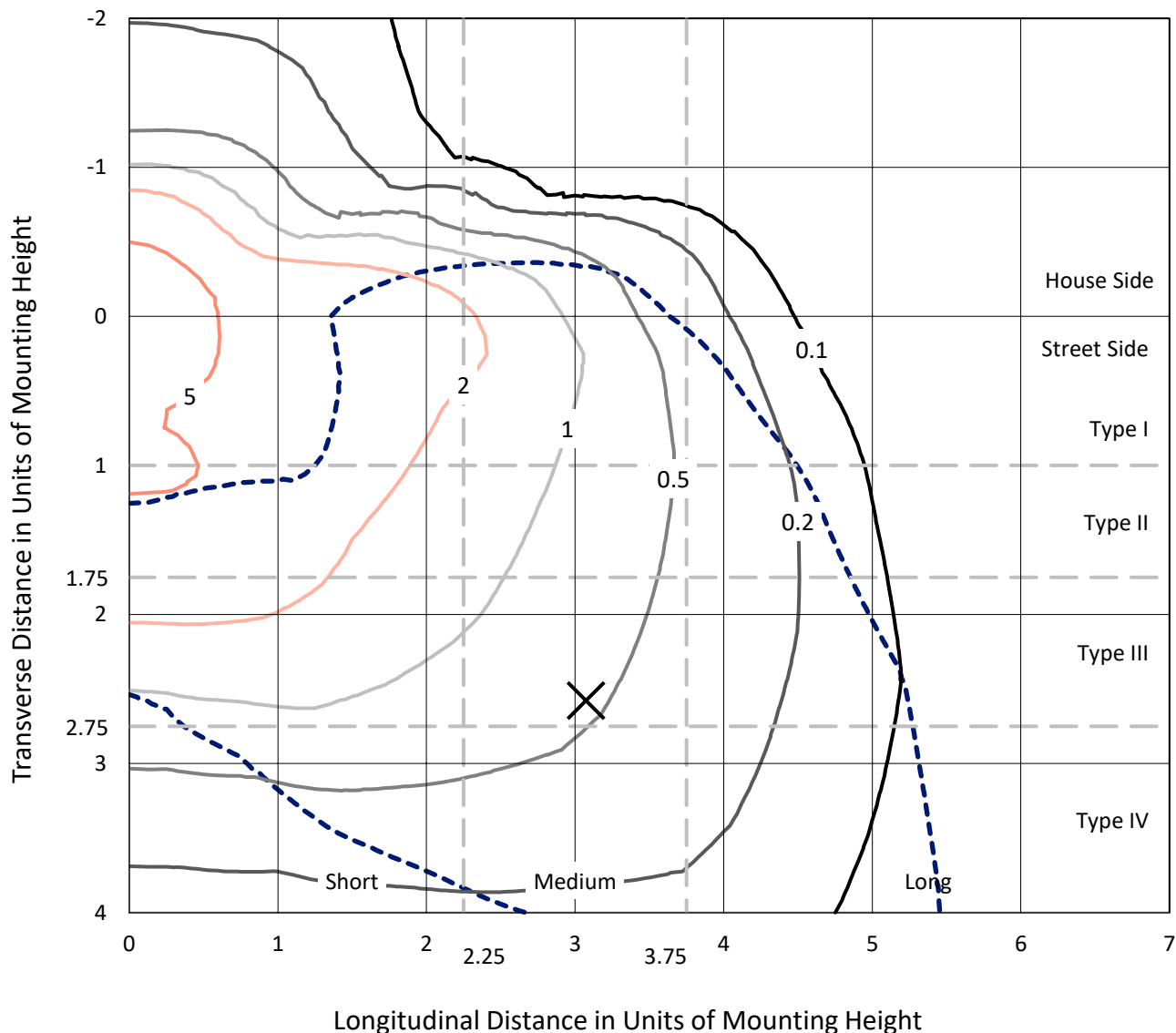
Input Watts (W): 94.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

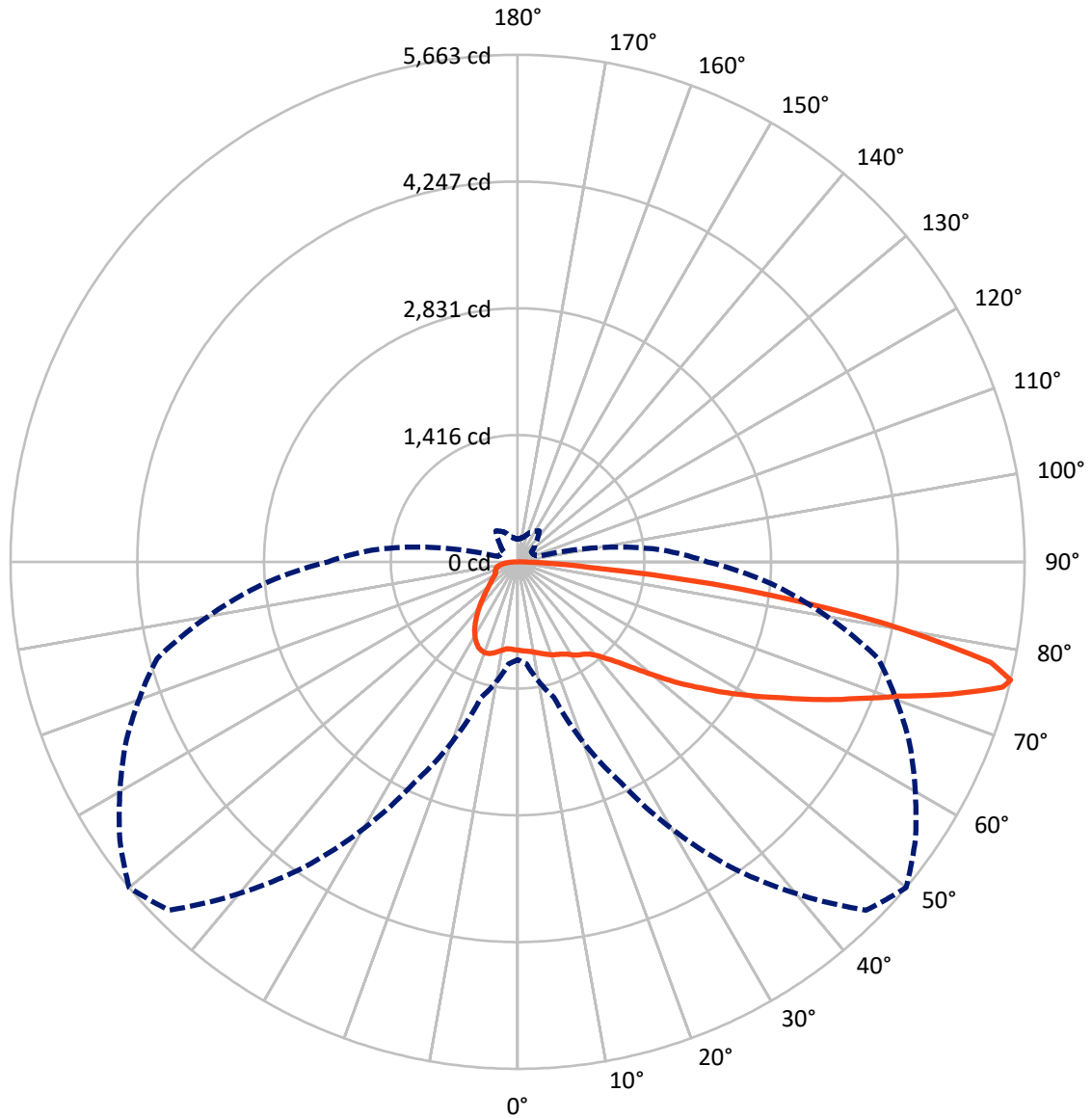
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 76-Deg Vertical

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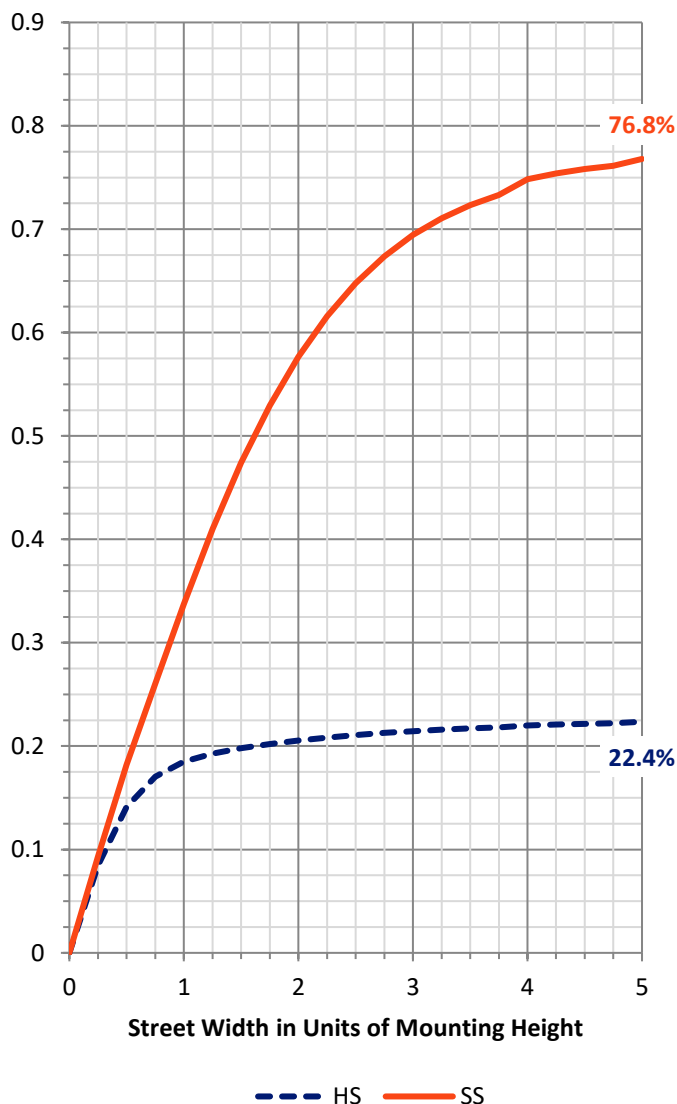
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2070.7	0.0	2070.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	6981.3	0.0	6981.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	9052.0	0.0	9052.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	1.1
10°-20°	301.2	3.3
20°-30°	508.8	5.6
30°-40°	697.4	7.7
40°-50°	1027.2	11.3
50°-60°	1615.8	17.9
60°-70°	2325.8	25.7
70°-80°	2114.8	23.4
80°-90°	365.1	4.0
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°	9052.0	100.0
0°-180°	9052.0	100.0

Coefficient of Utilization

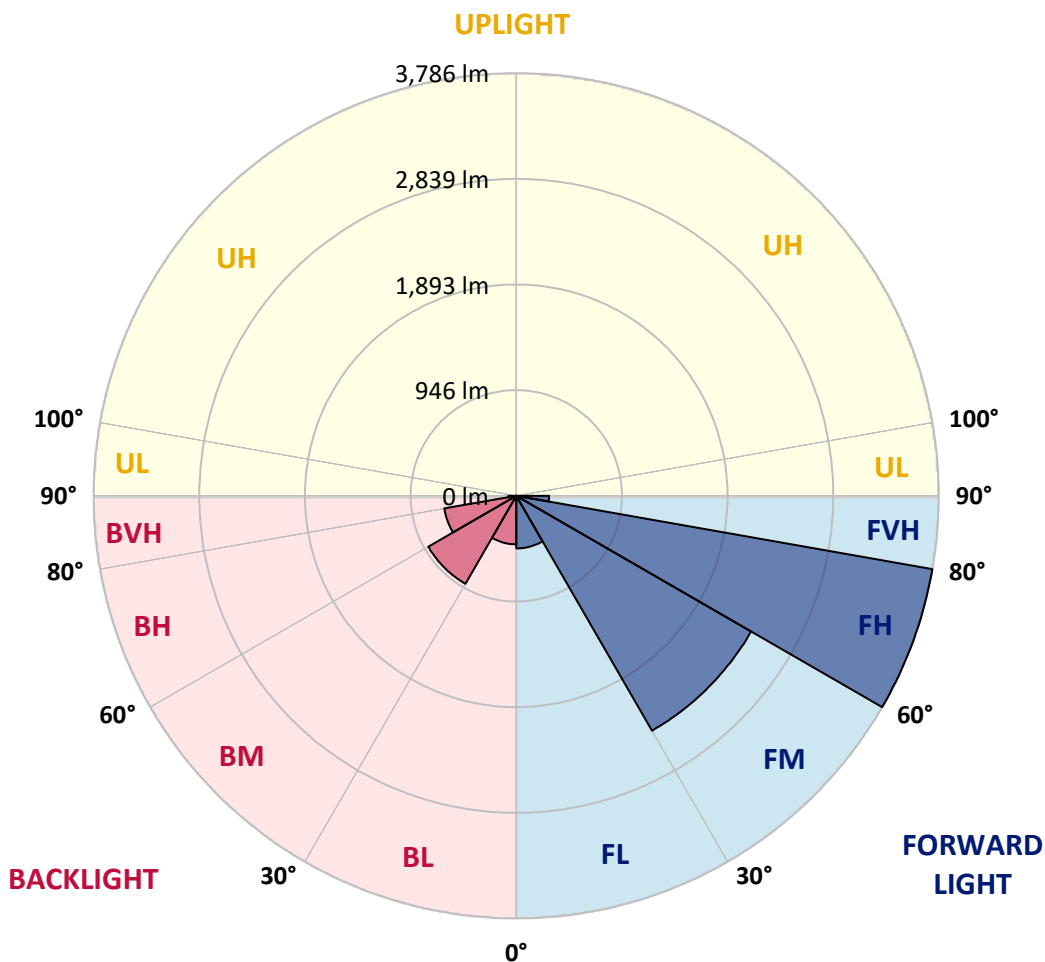


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	471.1	5.2			
FM (30°-60°)	2430.3	26.8			
FH (60°-80°)	3785.9	41.8			G2/5000
FVH (80°-90°)	293.9	3.2			G3/500
BL (0°-30°)	434.7	4.8	B1/500		
BM (30°-60°)	910.1	10.1	B1/1000		
BH (60°-80°)	654.7	7.2	B2/1000		G2/1000
BVH (80°-90°)	71.2	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-G3
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	986.6	986.6	986.6	986.6	986.6	986.6	986.6	986.6	986.6	986.6	986.6
2.5°	1008.8	1008.8	1011.0	1006.6	1006.6	995.5	995.5	993.3	988.9	986.6	982.2
5°	1046.5	1046.5	1039.9	1028.8	1022.1	1008.8	1002.2	997.7	988.9	977.8	966.7
7.5°	1086.4	1082.0	1077.6	1059.8	1046.5	1022.1	1011.0	1004.4	986.6	971.1	964.5
10°	1128.5	1121.9	1110.8	1088.6	1068.7	1039.9	1026.6	1017.7	997.7	984.4	968.9
12.5°	1152.9	1152.9	1139.6	1113.0	1086.4	1050.9	1044.3	1033.2	1013.3	995.5	980.0
15°	1177.3	1179.5	1166.2	1135.2	1104.2	1077.6	1066.5	1059.8	1037.6	1011.0	991.1
17.5°	1201.7	1199.5	1186.2	1150.7	1117.5	1093.1	1086.4	1077.6	1055.4	1031.0	1011.0
20°	1219.5	1215.0	1210.6	1166.2	1133.0	1117.5	1108.6	1101.9	1079.8	1053.2	1026.6
22.5°	1223.9	1228.3	1223.9	1170.7	1144.1	1126.3	1124.1	1117.5	1099.7	1075.3	1048.7
25°	1226.1	1228.3	1235.0	1184.0	1159.6	1146.3	1141.9	1137.4	1124.1	1104.2	1068.7
27.5°	1237.2	1239.4	1239.4	1192.8	1179.5	1170.7	1166.2	1166.2	1159.6	1135.2	1099.7
30°	1239.4	1241.6	1246.1	1215.0	1210.6	1203.9	1206.1	1203.9	1192.8	1166.2	1126.3
32.5°	1254.9	1257.1	1268.2	1228.3	1232.8	1239.4	1241.6	1239.4	1217.2	1195.1	1161.8
35°	1305.9	1303.7	1312.6	1261.6	1257.1	1259.4	1266.0	1263.8	1254.9	1235.0	1212.8
37.5°	1470.0	1470.0	1445.6	1339.2	1305.9	1301.5	1305.9	1317.0	1319.2	1301.5	1283.8
40°	1758.2	1742.7	1729.4	1498.8	1392.4	1365.8	1379.1	1385.7	1403.5	1403.5	1403.5
42.5°	2055.3	2057.5	2053.1	1747.1	1547.6	1481.1	1483.3	1498.8	1536.5	1543.2	1563.1
45°	2319.2	2334.7	2368.0	2035.4	1776.0	1627.4	1611.9	1627.4	1680.6	1725.0	1776.0
47.5°	2525.4	2507.6	2580.8	2336.9	2037.6	1827.0	1787.1	1791.5	1864.7	1935.6	2015.4
50°	2702.7	2707.2	2740.4	2645.1	2368.0	2053.1	1999.9	1991.0	2095.2	2170.6	2305.9
52.5°	2902.3	2889.0	2937.8	2915.6	2689.4	2330.3	2246.0	2219.4	2332.5	2438.9	2585.2
55°	2997.6	3010.9	3110.7	3166.1	2993.2	2578.6	2485.5	2494.3	2614.1	2727.1	2931.1
57.5°	3166.1	3179.4	3294.7	3410.0	3263.7	2842.4	2760.4	2760.4	2895.6	3022.0	3336.9
60°	3396.7	3398.9	3516.5	3716.0	3500.9	3097.4	3044.2	3042.0	3188.3	3334.6	3815.8
62.5°	3498.7	3525.3	3700.5	3959.9	3811.3	3410.0	3347.9	3365.7	3496.5	3667.2	4350.1
65°	3361.3	3418.9	3784.7	4124.0	4088.5	3736.0	3711.6	3736.0	3815.8	3999.8	4915.5
67.5°	2906.7	2984.3	3629.5	4234.8	4310.2	4112.9	4077.4	4073.0	4124.0	4330.2	5272.5
70°	2671.7	2718.3	3219.4	4277.0	4487.6	4494.2	4494.2	4465.4	4458.8	4609.5	5305.7
72.5°	2199.4	2248.2	2716.1	4041.9	4656.1	5004.2	5055.2	4948.8	4784.7	4753.6	4749.2
75°	1567.5	1603.0	2006.6	3179.4	4441.0	5494.2	5596.2	5390.0	4933.2	4438.8	3463.2
76°	1093.1	1144.1	1567.5	2716.1	4170.5	5503.1	5662.7	5423.2	4833.5	4168.3	2853.5
77.5°	554.3	572.0	906.8	1824.7	3489.8	5250.3	5405.5	5137.2	4398.9	3367.9	1811.4
80°	210.6	217.3	323.7	665.2	1915.6	4077.4	4137.3	3775.9	2911.2	1439.0	651.9
82.5°	110.9	115.3	181.8	328.1	787.1	2241.6	2529.8	2106.3	1141.9	432.4	190.7
85°	55.4	59.9	106.4	199.5	390.2	700.6	811.5	767.1	379.1	164.1	70.9
87.5°	22.2	26.6	53.2	88.7	157.4	137.5	153.0	197.3	121.9	77.6	24.4
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°	986.6	986.6	986.6	986.6	986.6	986.6	986.6	986.6	986.6	986.6	986.6
2.5°	982.2	980.0	982.2	980.0	982.2	982.2	984.4	980.0	980.0	984.4	977.8
5°	966.7	964.5	966.7	971.1	973.3	977.8	986.6	984.4	988.9	993.3	995.5
7.5°	960.0	957.8	964.5	966.7	973.3	982.2	995.5	1004.4	1008.8	1017.7	1013.3
10°	966.7	966.7	975.6	982.2	993.3	1004.4	1015.5	1024.3	1035.4	1042.1	1039.9
12.5°	977.8	975.6	991.1	1000.0	1015.5	1026.6	1035.4	1039.9	1048.7	1057.6	1055.4
15°	988.9	991.1	1013.3	1031.0	1048.7	1053.2	1055.4	1050.9	1055.4	1059.8	1059.8
17.5°	1011.0	1013.3	1037.6	1057.6	1073.1	1068.7	1057.6	1046.5	1046.5	1048.7	1050.9
20°	1028.8	1033.2	1062.0	1079.8	1088.6	1070.9	1053.2	1039.9	1033.2	1035.4	1033.2
22.5°	1048.7	1057.6	1086.4	1095.3	1082.0	1059.8	1037.6	1019.9	1019.9	1022.1	1022.1
25°	1073.1	1077.6	1097.5	1093.1	1068.7	1035.4	1017.7	1011.0	1008.8	1011.0	1013.3
27.5°	1095.3	1097.5	1108.6	1077.6	1031.0	995.5	988.9	991.1	993.3	995.5	997.7
30°	1124.1	1128.5	1117.5	1055.4	984.4	944.5	944.5	957.8	962.3	968.9	966.7
32.5°	1159.6	1164.0	1130.8	1026.6	924.6	884.7	886.9	906.8	920.1	924.6	926.8
35°	1219.5	1210.6	1139.6	986.6	860.3	811.5	813.7	838.1	855.8	862.5	858.1
37.5°	1292.6	1290.4	1152.9	935.7	780.4	736.1	738.3	749.4	767.1	769.4	771.6
40°	1414.6	1396.8	1175.1	869.1	700.6	658.5	654.1	660.7	658.5	662.9	665.2
42.5°	1589.7	1543.2	1203.9	793.8	629.7	585.3	580.9	569.8	556.5	543.2	536.6
45°	1795.9	1722.8	1239.4	716.2	556.5	516.6	505.5	492.2	465.6	436.8	427.9
47.5°	2062.0	1922.3	1279.3	638.5	487.8	456.7	447.9	427.9	396.9	363.6	357.0
50°	2334.7	2157.3	1319.2	574.3	432.4	414.6	405.7	385.8	345.9	314.8	308.2
52.5°	2651.8	2390.1	1361.4	516.6	383.6	383.6	376.9	345.9	308.2	279.4	274.9
55°	3017.6	2629.6	1427.9	461.2	348.1	357.0	348.1	317.1	281.6	261.6	259.4
57.5°	3454.4	2933.3	1512.1	401.3	317.1	323.7	323.7	301.5	277.1	263.8	261.6
60°	3893.4	3241.5	1565.3	357.0	292.7	299.3	312.6	301.5	286.0	279.4	277.1
62.5°	4314.6	3556.4	1474.4	319.3	268.3	288.2	321.5	323.7	308.2	310.4	310.4
65°	4629.5	3795.8	1192.8	286.0	252.8	294.9	348.1	350.3	323.7	317.1	314.8
67.5°	4738.1	3862.3	802.6	263.8	243.9	299.3	379.1	370.3	323.7	310.4	303.8
70°	4531.9	3618.4	521.0	243.9	230.6	294.9	403.5	381.4	321.5	301.5	292.7
72.5°	3800.3	3086.3	348.1	226.2	217.3	290.5	419.0	381.4	314.8	286.0	277.1
75°	2638.5	2108.5	259.4	204.0	197.3	283.8	423.5	374.7	299.3	268.3	261.6
76°	2117.4	1580.9	235.0	195.1	188.5	279.4	421.3	368.1	288.2	259.4	252.8
77.5°	1337.0	909.0	197.3	179.6	175.2	270.5	412.4	352.5	272.7	243.9	237.2
80°	467.8	332.6	150.8	146.3	148.6	250.5	388.0	321.5	241.7	215.1	206.2
82.5°	186.2	153.0	113.1	113.1	117.5	215.1	350.3	283.8	210.6	177.4	164.1
85°	73.2	66.5	79.8	79.8	84.3	175.2	292.7	221.7	144.1	110.9	106.4
87.5°	22.2	31.0	35.5	37.7	39.9	88.7	166.3	97.6	64.3	46.6	37.7
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)