

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: P594783

Luminaire Tested: **ISS-PA1E-727-U-T4W**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594783  
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-PA1E-727-U-T4W  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8693 lumens  
Efficiency: N/A  
Efficacy: 105.5 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

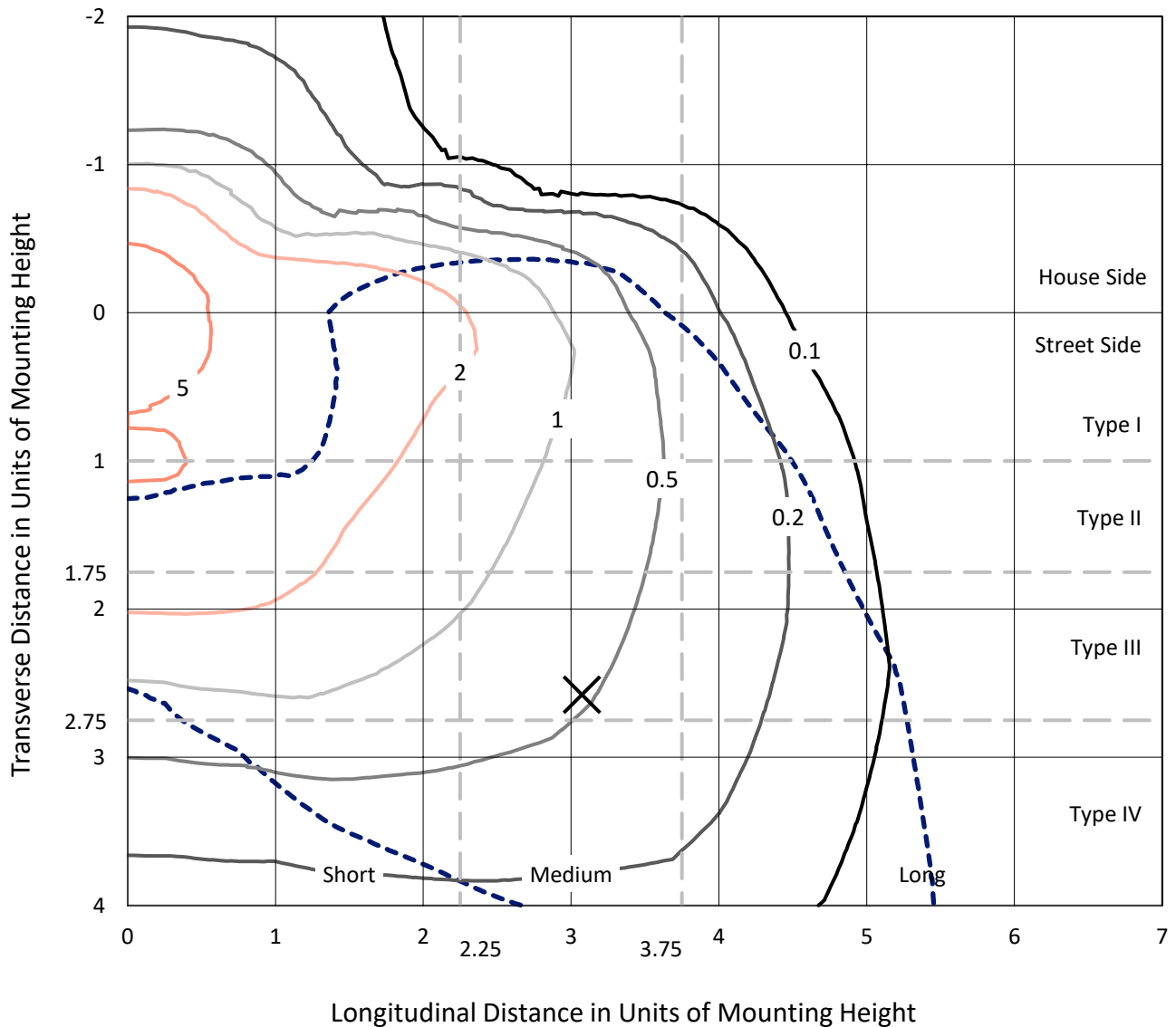
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

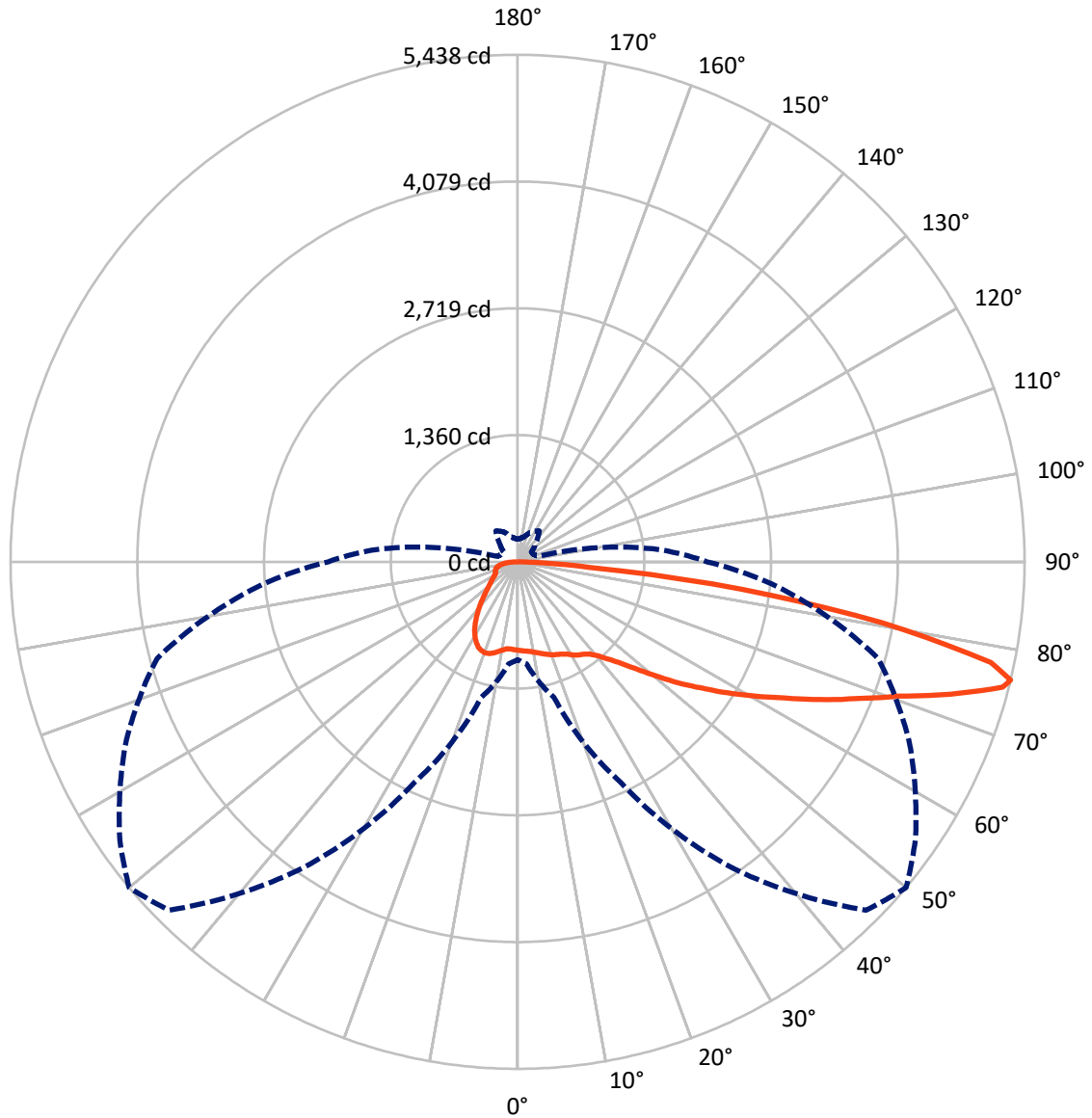
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.1 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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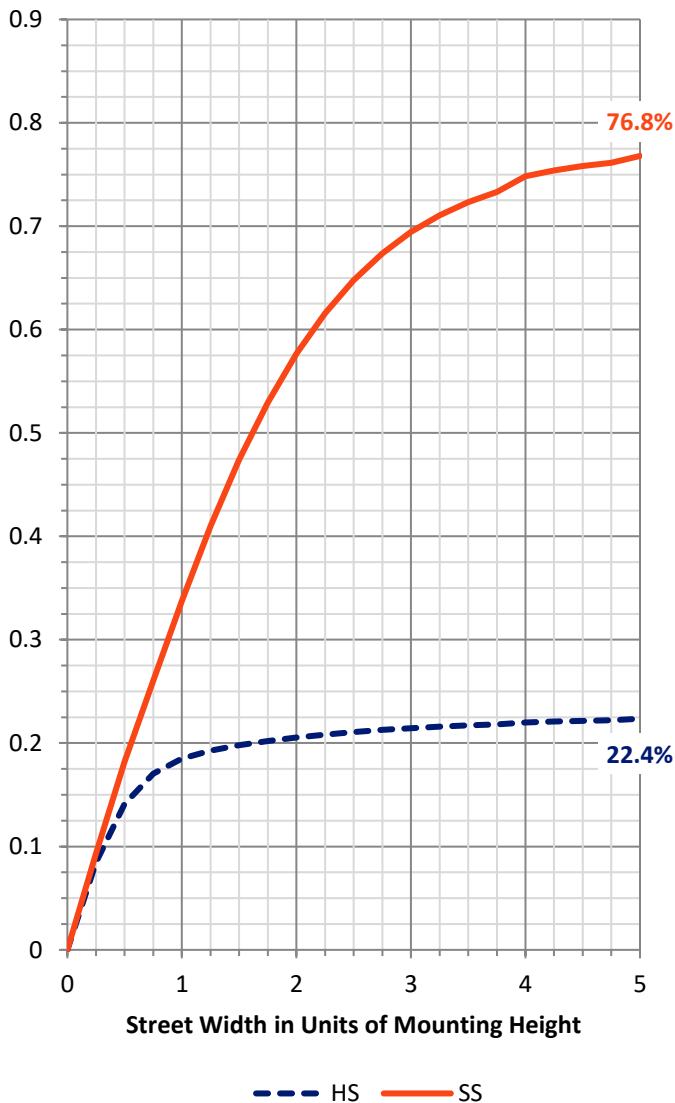
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1988.6	0.0	1988.6
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	6704.4	0.0	6704.4
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	8693.0	0.0	8693.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.0	1.1
10°-20°	289.3	3.3
20°-30°	488.6	5.6
30°-40°	669.8	7.7
40°-50°	986.4	11.3
50°-60°	1551.7	17.9
60°-70°	2233.6	25.7
70°-80°	2031.0	23.4
80°-90°	350.6	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°	8693.0	100.0
0°-180°	8693.0	100.0

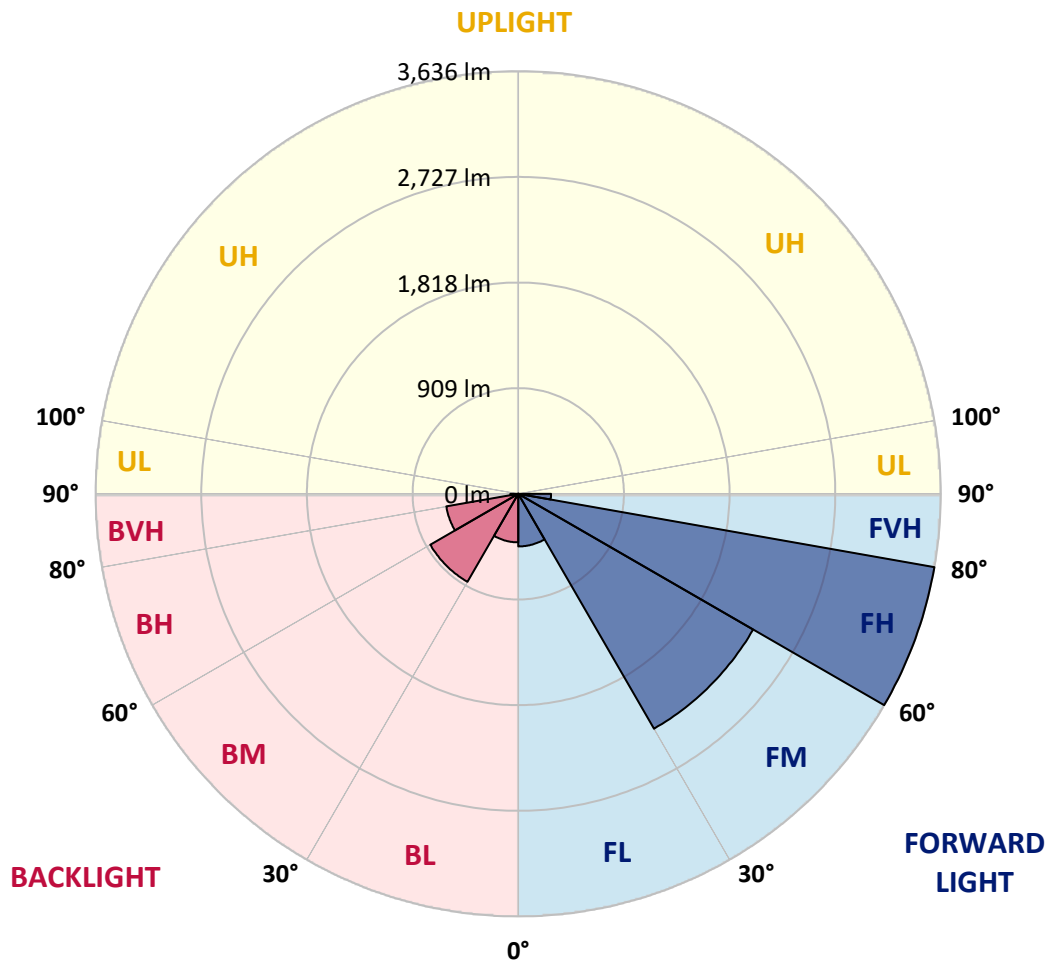


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	452.4	5.2			
FM (30°-60°)	2333.9	26.8			
FH (60°-80°)	3635.8	41.8			G2/5000
FVH (80°-90°)	282.2	3.2			G3/500
BL (0°-30°)	417.5	4.8	B1/500		
BM (30°-60°)	874.0	10.1	B1/1000		
BH (60°-80°)	628.7	7.2	B2/1000		G2/1000
BVH (80°-90°)	68.4	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°	947.5	947.5	947.5	947.5	947.5	947.5	947.5	947.5	947.5	947.5	947.5
2.5°	968.8	968.8	970.9	966.7	966.7	956.0	956.0	953.9	949.6	947.5	943.3
5°	1005.0	1005.0	998.6	988.0	981.6	968.8	962.4	958.2	949.6	939.0	928.4
7.5°	1043.3	1039.1	1034.8	1017.8	1005.0	981.6	970.9	964.6	947.5	932.6	926.2
10°	1083.8	1077.4	1066.8	1045.5	1026.3	998.6	985.8	977.3	958.2	945.4	930.5
12.5°	1107.2	1107.2	1094.4	1068.9	1043.3	1009.3	1002.9	992.2	973.1	956.0	941.1
15°	1130.6	1132.8	1120.0	1090.2	1060.4	1034.8	1024.2	1017.8	996.5	970.9	951.8
17.5°	1154.1	1151.9	1139.1	1105.1	1073.1	1049.7	1043.3	1034.8	1013.5	990.1	970.9
20°	1171.1	1166.8	1162.6	1120.0	1088.0	1073.1	1064.6	1058.2	1036.9	1011.4	985.8
22.5°	1175.3	1179.6	1175.3	1124.2	1098.7	1081.7	1079.5	1073.1	1056.1	1032.7	1007.1
25°	1177.5	1179.6	1186.0	1137.0	1113.6	1100.8	1096.6	1092.3	1079.5	1060.4	1026.3
27.5°	1188.1	1190.3	1190.3	1145.5	1132.8	1124.2	1120.0	1120.0	1113.6	1090.2	1056.1
30°	1190.3	1192.4	1196.6	1166.8	1162.6	1156.2	1158.3	1156.2	1145.5	1120.0	1081.7
32.5°	1205.2	1207.3	1217.9	1179.6	1183.9	1190.3	1192.4	1190.3	1169.0	1147.7	1115.7
35°	1254.1	1252.0	1260.5	1211.5	1207.3	1209.4	1215.8	1213.7	1205.2	1186.0	1164.7
37.5°	1411.7	1411.7	1388.3	1286.1	1254.1	1249.9	1254.1	1264.8	1266.9	1249.9	1232.8
40°	1688.5	1673.6	1660.8	1439.4	1337.2	1311.6	1324.4	1330.8	1347.8	1347.8	1347.8
42.5°	1973.8	1975.9	1971.7	1677.9	1486.2	1422.3	1424.5	1439.4	1475.6	1482.0	1501.1
45°	2227.2	2242.1	2274.0	1954.7	1705.5	1562.9	1548.0	1562.9	1614.0	1656.6	1705.5
47.5°	2425.2	2408.2	2478.4	2244.2	1956.8	1754.5	1716.2	1720.4	1790.7	1858.8	1935.5
50°	2595.6	2599.8	2631.8	2540.2	2274.0	1971.7	1920.6	1912.1	2012.1	2084.5	2214.4
52.5°	2787.2	2774.4	2821.3	2800.0	2582.8	2237.8	2156.9	2131.4	2240.0	2342.2	2482.7
55°	2878.7	2891.5	2987.3	3040.6	2874.5	2476.3	2386.9	2395.4	2510.4	2619.0	2814.9
57.5°	3040.6	3053.3	3164.1	3274.8	3134.3	2729.7	2650.9	2650.9	2780.8	2902.2	3204.5
60°	3262.0	3264.1	3377.0	3568.6	3362.1	2974.6	2923.5	2921.3	3061.9	3202.4	3664.4
62.5°	3360.0	3385.5	3553.7	3802.8	3660.2	3274.8	3215.2	3232.2	3357.8	3521.8	4177.6
65°	3227.9	3283.3	3634.6	3960.4	3926.3	3587.8	3564.4	3587.8	3664.4	3841.2	4720.6
67.5°	2791.4	2866.0	3485.6	4066.9	4139.3	3949.8	3915.7	3911.4	3960.4	4158.4	5063.4
70°	2565.7	2610.5	3091.7	4107.3	4309.6	4316.0	4316.0	4288.3	4281.9	4426.7	5095.3
72.5°	2112.2	2159.1	2608.3	3881.6	4471.4	4805.7	4854.7	4752.5	4594.9	4565.1	4560.9
75°	1505.4	1539.4	1927.0	3053.3	4264.9	5276.3	5374.2	5176.2	4737.6	4262.8	3325.9
76°	1049.7	1098.7	1505.4	2608.3	4005.1	5284.8	5438.1	5208.2	4641.8	4003.0	2740.3
77.5°	532.3	549.3	870.9	1752.4	3351.4	5042.1	5191.1	4933.5	4224.4	3234.3	1739.6
80°	202.3	208.7	310.9	638.8	1839.7	3915.7	3973.2	3626.1	2795.7	1381.9	626.0
82.5°	106.5	110.7	174.6	315.1	755.9	2152.7	2429.5	2022.8	1096.6	415.2	183.1
85°	53.2	57.5	102.2	191.6	374.7	672.8	779.3	736.7	364.1	157.6	68.1
87.5°	21.3	25.6	51.1	85.2	151.2	132.0	146.9	189.5	117.1	74.5	23.4
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°	947.5	947.5	947.5	947.5	947.5	947.5	947.5	947.5	947.5	947.5	947.5
2.5°	943.3	941.1	943.3	941.1	943.3	943.3	945.4	941.1	941.1	945.4	939.0
5°	928.4	926.2	928.4	932.6	934.7	939.0	947.5	945.4	949.6	953.9	956.0
7.5°	922.0	919.8	926.2	928.4	934.7	943.3	956.0	964.6	968.8	977.3	973.1
10°	928.4	928.4	936.9	943.3	953.9	964.6	975.2	983.7	994.4	1000.7	998.6
12.5°	939.0	936.9	951.8	960.3	975.2	985.8	994.4	998.6	1007.1	1015.7	1013.5
15°	949.6	951.8	973.1	990.1	1007.1	1011.4	1013.5	1009.3	1013.5	1017.8	1017.8
17.5°	970.9	973.1	996.5	1015.7	1030.6	1026.3	1015.7	1005.0	1005.0	1007.1	1009.3
20°	988.0	992.2	1019.9	1036.9	1045.5	1028.4	1011.4	998.6	992.2	994.4	992.2
22.5°	1007.1	1015.7	1043.3	1051.9	1039.1	1017.8	996.5	979.5	979.5	981.6	981.6
25°	1030.6	1034.8	1054.0	1049.7	1026.3	994.4	977.3	970.9	968.8	970.9	973.1
27.5°	1051.9	1054.0	1064.6	1034.8	990.1	956.0	949.6	951.8	953.9	956.0	958.2
30°	1079.5	1083.8	1073.1	1013.5	945.4	907.1	907.1	919.8	924.1	930.5	928.4
32.5°	1113.6	1117.9	1085.9	985.8	887.9	849.6	851.7	870.9	883.6	887.9	890.0
35°	1171.1	1162.6	1094.4	947.5	826.1	779.3	781.4	804.9	821.9	828.3	824.0
37.5°	1241.4	1239.2	1107.2	898.5	749.5	706.9	709.0	719.7	736.7	738.9	741.0
40°	1358.5	1341.4	1128.5	834.7	672.8	632.4	628.1	634.5	632.4	636.6	638.8
42.5°	1526.7	1482.0	1156.2	762.3	604.7	562.1	557.9	547.2	534.4	521.7	515.3
45°	1724.7	1654.4	1190.3	687.7	534.4	496.1	485.5	472.7	447.1	419.5	410.9
47.5°	1980.2	1846.1	1228.6	613.2	468.4	438.6	430.1	410.9	381.1	349.2	342.8
50°	2242.1	2071.8	1266.9	551.5	415.2	398.2	389.7	370.5	332.2	302.4	296.0
52.5°	2546.6	2295.3	1307.4	496.1	368.4	368.4	362.0	332.2	296.0	268.3	264.0
55°	2897.9	2525.3	1371.2	442.9	334.3	342.8	334.3	304.5	270.4	251.3	249.1
57.5°	3317.4	2817.0	1452.1	385.4	304.5	310.9	310.9	289.6	266.2	253.4	251.3
60°	3739.0	3113.0	1503.3	342.8	281.1	287.4	300.2	289.6	274.7	268.3	266.2
62.5°	4143.5	3415.3	1416.0	306.6	257.6	276.8	308.7	310.9	296.0	298.1	298.1
65°	4445.9	3645.3	1145.5	274.7	242.7	283.2	334.3	336.4	310.9	304.5	302.4
67.5°	4550.2	3709.2	770.8	253.4	234.2	287.4	364.1	355.6	310.9	298.1	291.7
70°	4352.2	3474.9	500.4	234.2	221.4	283.2	387.5	366.2	308.7	289.6	281.1
72.5°	3649.5	2963.9	334.3	217.2	208.7	278.9	402.4	366.2	302.4	274.7	266.2
75°	2533.8	2024.9	249.1	195.9	189.5	272.5	406.7	359.8	287.4	257.6	251.3
76°	2033.4	1518.2	225.7	187.4	181.0	268.3	404.6	353.5	276.8	249.1	242.7
77.5°	1283.9	873.0	189.5	172.5	168.2	259.8	396.0	338.6	261.9	234.2	227.8
80°	449.3	319.4	144.8	140.5	142.7	240.6	372.6	308.7	232.1	206.5	198.0
82.5°	178.9	146.9	108.6	108.6	112.9	206.5	336.4	272.5	202.3	170.3	157.6
85°	70.3	63.9	76.7	76.7	80.9	168.2	281.1	212.9	138.4	106.5	102.2
87.5°	21.3	29.8	34.1	36.2	38.3	85.2	159.7	93.7	61.7	44.7	36.2
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)