

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: P594879

Luminaire Tested: **ISS-PA1F-735-U-T3-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594879  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISS-PA1F-735-U-T3-HSS  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 3500K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8097 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

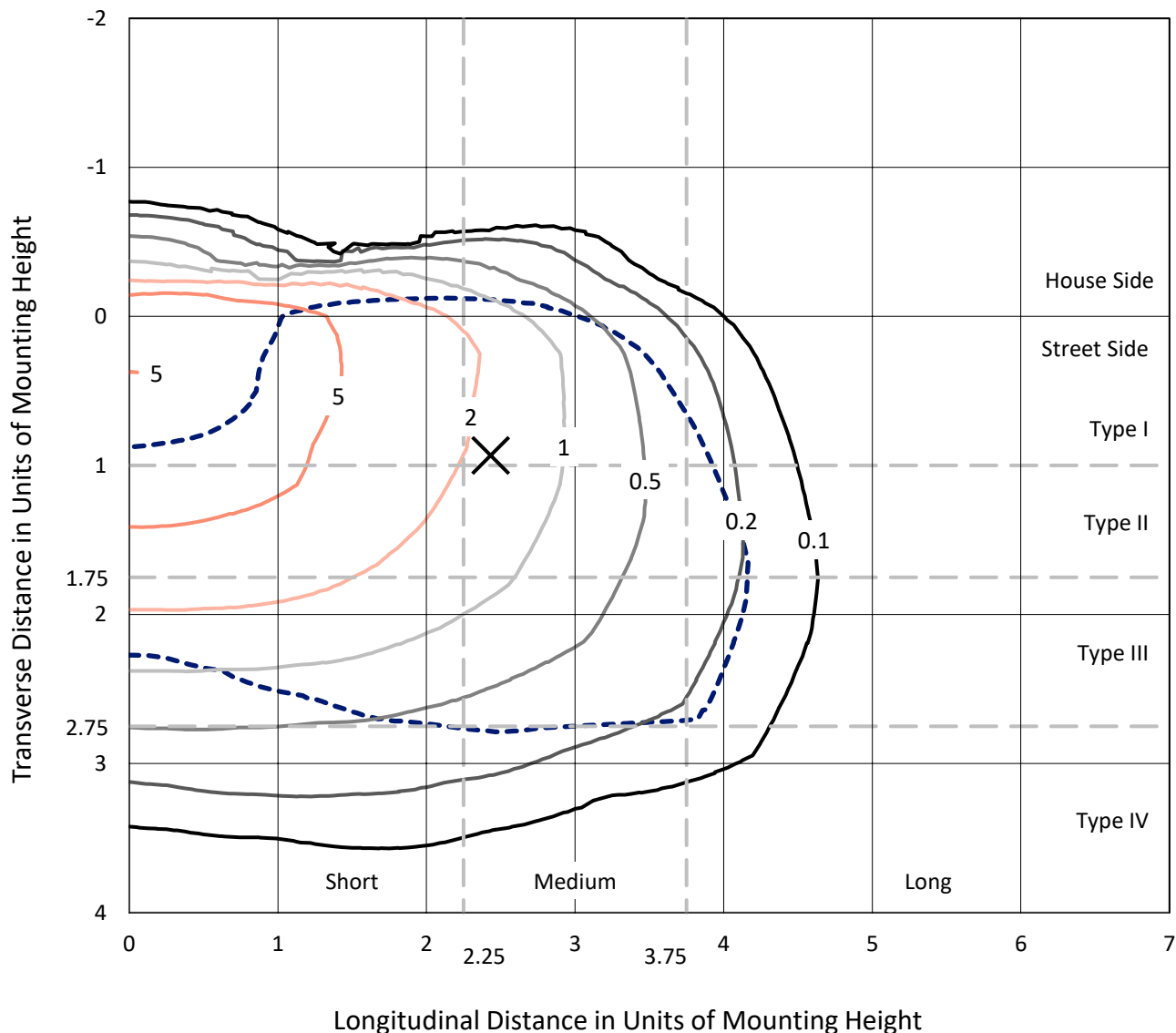
Input Watts (W): 94.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

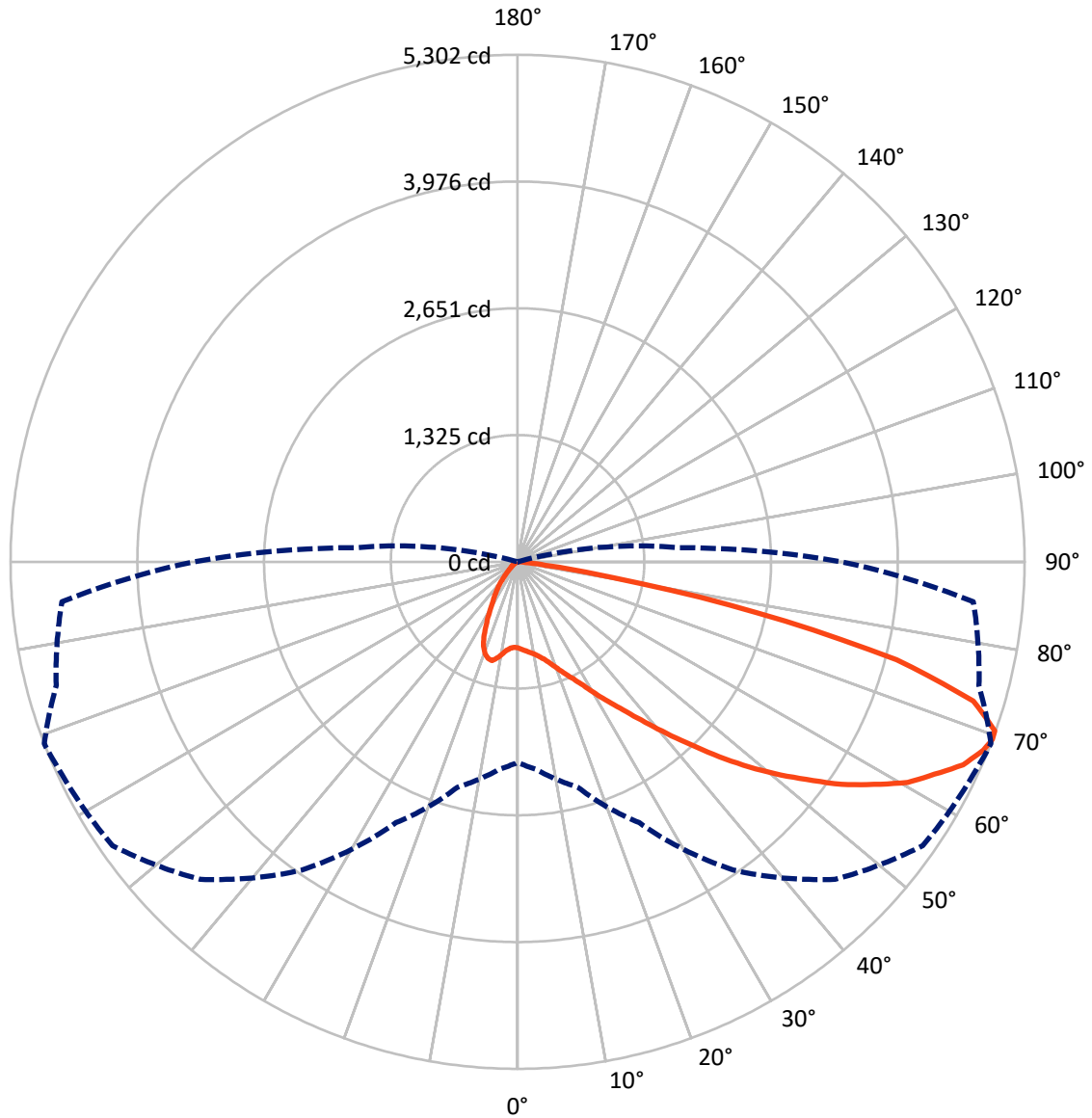
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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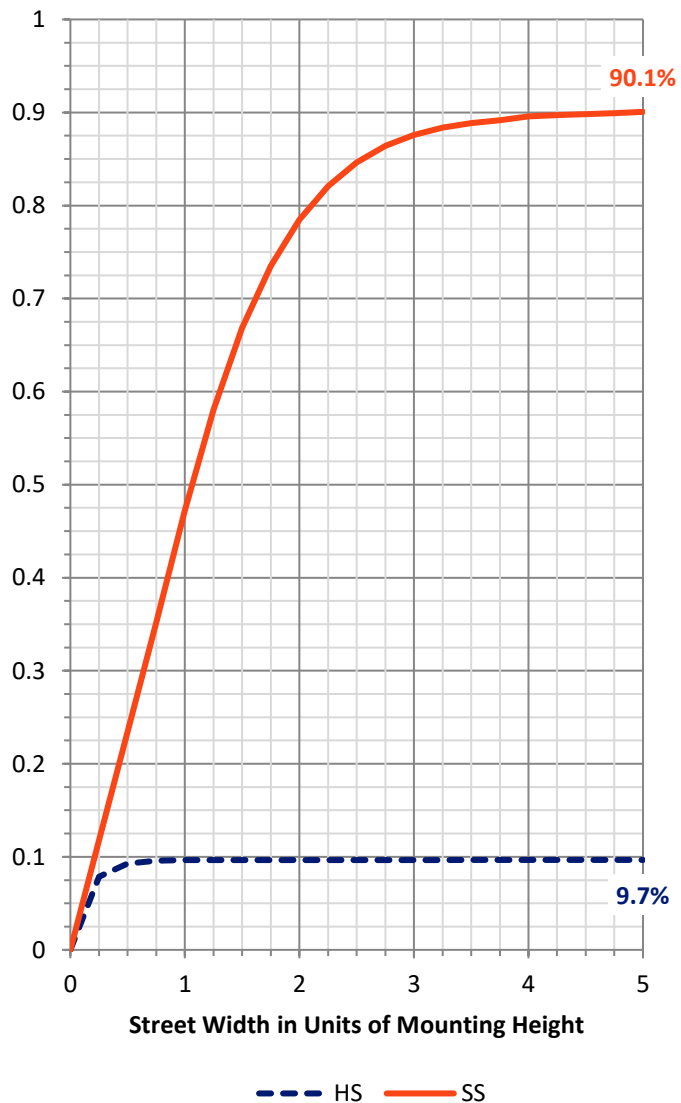
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	789.0	0.0	789.0
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	7308.0	0.0	7308.0
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	8097.0	0.0	8097.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.9	1.1
10°-20°	227.2	2.8
20°-30°	378.3	4.7
30°-40°	681.1	8.4
40°-50°	1235.0	15.3
50°-60°	1930.0	23.8
60°-70°	2232.9	27.6
70°-80°	1248.7	15.4
80°-90°	78.0	1.0
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°	8097.0	100.0
0°-180°	8097.0	100.0

**Coefficient of Utilization**

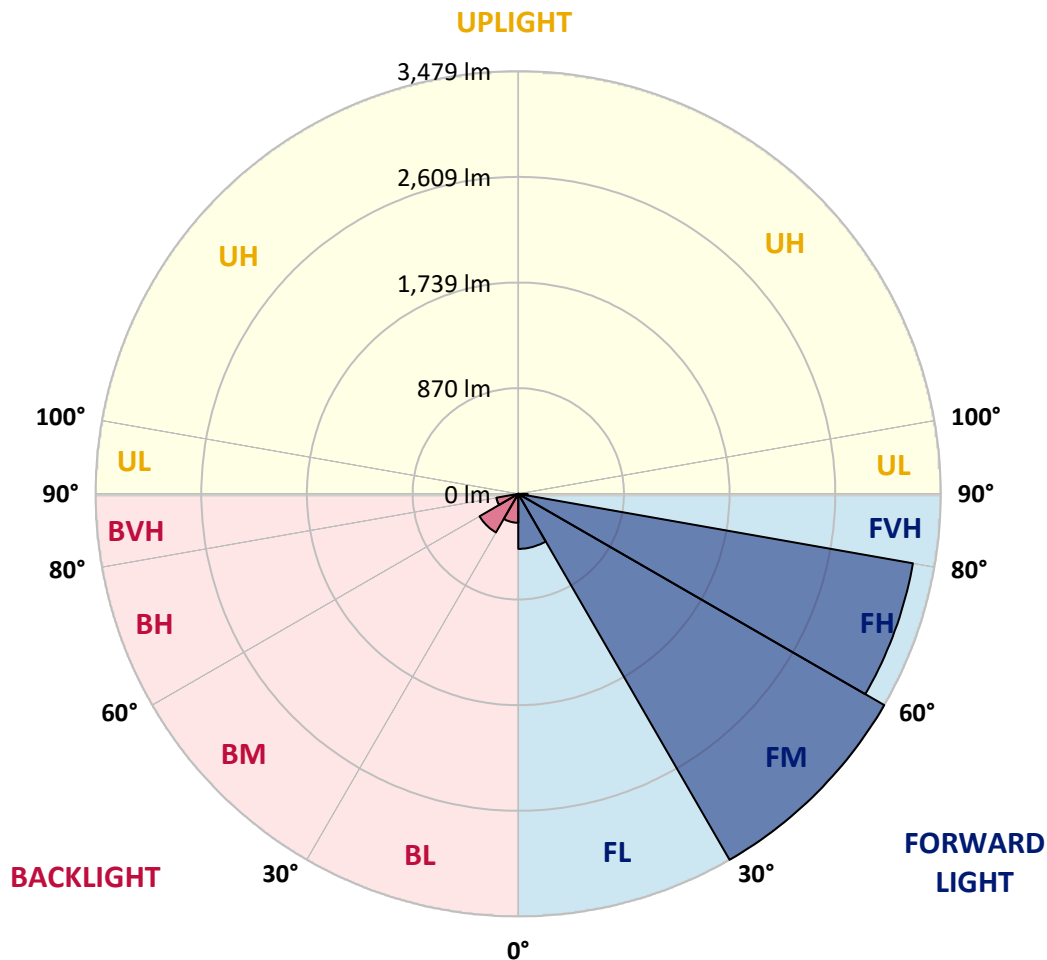


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	453.0	5.6			
FM (30°-60°)	3478.7	43.0			
FH (60°-80°)	3298.9	40.7			G2/5000
FVH (80°-90°)	77.4	1.0			G1/100
BL (0°-30°)	238.4	2.9	B1/500		
BM (30°-60°)	367.3	4.5	B1/1000		
BH (60°-80°)	182.7	2.3	B1/500		G1/500
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	900.7	900.7	900.7	900.7	900.7	900.7	900.7	900.7	900.7	900.7	900.7
2.5°	933.0	933.0	933.0	927.6	930.3	927.6	924.9	916.8	919.5	916.8	908.8
5°	900.7	903.4	911.4	916.8	930.3	935.7	938.4	938.4	935.7	930.3	924.9
7.5°	838.6	838.6	846.7	862.9	889.9	919.5	943.8	957.3	960.0	960.0	951.9
10°	822.5	822.5	833.2	844.0	871.0	906.1	943.8	976.2	981.6	987.0	984.3
12.5°	814.4	817.1	827.9	846.7	881.8	914.1	954.6	1000.4	1016.6	1030.1	1032.8
15°	825.2	825.2	835.9	854.8	895.3	941.1	992.3	1043.6	1059.8	1078.6	1092.1
17.5°	841.3	846.7	852.1	871.0	908.8	965.4	1032.8	1100.2	1119.1	1143.4	1154.1
20°	868.3	868.3	873.7	889.9	930.3	997.7	1092.1	1173.0	1189.2	1205.4	1218.9
22.5°	900.7	903.4	903.4	916.8	962.7	1035.5	1143.4	1243.1	1270.1	1278.2	1283.6
25°	997.7	992.3	973.5	965.4	1000.4	1078.6	1205.4	1326.7	1356.4	1364.5	1353.7
27.5°	1200.0	1178.4	1127.2	1073.2	1067.8	1146.1	1289.0	1431.9	1464.2	1466.9	1429.2
30°	1453.5	1456.2	1372.6	1256.6	1178.4	1218.9	1380.7	1564.0	1596.4	1582.9	1523.6
32.5°	1766.3	1752.8	1690.8	1523.6	1367.2	1332.1	1480.4	1701.5	1739.3	1717.7	1639.5
35°	2033.2	2041.3	1965.8	1817.5	1620.7	1507.4	1601.8	1855.3	1901.1	1863.3	1766.3
37.5°	2257.0	2267.8	2222.0	2100.6	1925.4	1747.4	1760.9	2035.9	2097.9	2060.2	1938.8
40°	2505.1	2513.2	2494.3	2362.2	2205.8	2033.2	1973.9	2243.6	2327.2	2275.9	2149.2
42.5°	2777.5	2807.1	2774.8	2669.6	2507.8	2359.5	2270.5	2497.0	2580.6	2548.3	2378.4
45°	3149.6	3152.3	3114.6	3009.4	2842.2	2720.9	2613.0	2766.7	2874.6	2834.1	2634.6
47.5°	3424.7	3443.5	3422.0	3349.2	3214.3	3133.4	2985.1	3063.3	3176.6	3125.3	2898.8
50°	3635.0	3686.2	3667.4	3688.9	3621.5	3586.5	3360.0	3370.7	3481.3	3438.2	3168.5
52.5°	3751.0	3815.7	3821.1	3931.6	3988.3	4074.5	3724.0	3707.8	3777.9	3740.2	3443.5
55°	3734.8	3751.0	3885.8	4088.0	4309.2	4506.0	4079.9	4012.5	4109.6	4004.4	3734.8
57.5°	3578.4	3618.8	3856.1	4106.9	4497.9	4783.7	4387.4	4311.8	4392.7	4252.5	4034.1
60°	3354.6	3413.9	3718.6	4077.2	4608.5	4950.9	4686.7	4611.2	4684.0	4514.1	4373.9
62.5°	3152.3	3179.3	3459.7	3953.2	4543.8	4942.8	4918.6	4848.5	4891.6	4713.6	4665.1
65°	2863.8	2874.6	3152.3	3729.4	4400.8	4888.9	5045.3	5072.3	5118.1	4880.8	4872.7
67.5°	2418.8	2443.1	2718.2	3338.4	4163.5	4783.7	5145.1	5199.0	5253.0	4969.8	4910.5
69°	2097.9	2176.1	2440.4	3009.4	3934.3	4694.8	5172.1	5258.3	5301.5	4994.1	4783.7
70°	1836.4	1903.8	2208.5	2755.9	3732.1	4595.0	5190.9	5250.3	5293.4	4942.8	4576.1
72.5°	922.2	1008.5	1426.5	2011.7	2966.2	4139.3	5093.9	5029.1	4983.3	4546.5	3702.4
75°	355.9	369.4	612.1	1146.1	1855.3	3039.1	4349.6	4228.3	4093.4	3448.9	2195.0
77.5°	196.9	194.2	267.0	507.0	790.1	1485.8	2942.0	2747.8	2561.8	1852.6	889.9
80°	83.6	89.0	116.0	242.7	415.3	515.0	1429.2	1270.1	1011.2	587.9	213.0
82.5°	51.2	53.9	80.9	148.3	288.5	196.9	463.8	396.4	291.2	159.1	51.2
85°	16.2	18.9	56.6	99.8	140.2	80.9	105.2	91.7	80.9	67.4	16.2
87.5°	2.7	2.7	21.6	53.9	37.8	13.5	10.8	18.9	29.7	32.4	5.4
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°	900.7	900.7	900.7	900.7	900.7	900.7	900.7	900.7	900.7	900.7	900.7
2.5°	906.1	900.7	895.3	892.6	892.6	887.2	884.5	881.8	881.8	879.1	879.1
5°	916.8	911.4	906.1	903.4	898.0	895.3	895.3	895.3	892.6	895.3	898.0
7.5°	943.8	935.7	933.0	930.3	930.3	922.2	908.8	873.7	838.6	827.9	817.1
10°	981.6	978.9	978.9	978.9	960.0	889.9	792.8	706.5	660.7	622.9	622.9
12.5°	1035.5	1035.5	1032.8	1024.7	927.6	757.7	606.7	477.3	401.8	358.6	364.0
15°	1094.8	1092.1	1097.5	1046.3	817.1	585.2	366.7	258.9	218.4	213.0	213.0
17.5°	1156.8	1162.2	1156.8	989.6	671.5	361.3	218.4	196.9	191.5	191.5	191.5
20°	1221.6	1216.2	1208.1	892.6	488.1	226.5	188.8	183.4	178.0	175.3	175.3
22.5°	1286.3	1280.9	1226.9	768.5	304.7	186.1	178.0	167.2	159.1	156.4	156.4
25°	1348.3	1348.3	1191.9	609.4	207.6	175.3	161.8	151.0	142.9	134.8	134.8
27.5°	1426.5	1431.9	1135.3	426.1	175.3	161.8	145.6	129.4	118.6	113.3	113.3
30°	1515.5	1523.6	1043.6	277.7	159.1	142.9	126.7	107.9	91.7	86.3	83.6
32.5°	1620.7	1628.7	938.4	183.4	142.9	124.0	105.2	80.9	64.7	62.0	59.3
35°	1755.5	1736.6	811.7	145.6	124.0	105.2	80.9	56.6	45.8	43.1	43.1
37.5°	1922.7	1882.2	666.1	126.7	105.2	83.6	59.3	37.8	29.7	29.7	27.0
40°	2114.1	2000.9	515.0	113.3	89.0	64.7	37.8	24.3	18.9	18.9	18.9
42.5°	2324.5	2100.6	366.7	99.8	72.8	45.8	24.3	13.5	10.8	10.8	10.8
45°	2567.2	2192.3	250.8	86.3	62.0	32.4	13.5	5.4	5.4	5.4	5.4
47.5°	2809.8	2251.7	167.2	75.5	45.8	18.9	8.1	2.7	2.7	2.7	2.7
50°	3055.2	2297.5	129.4	64.7	32.4	10.8	2.7	0.0	0.0	0.0	0.0
52.5°	3273.7	2329.9	105.2	53.9	21.6	8.1	2.7	0.0	0.0	0.0	0.0
55°	3462.4	2332.6	91.7	43.1	16.2	5.4	0.0	0.0	0.0	0.0	0.0
57.5°	3653.9	2311.0	78.2	32.4	10.8	2.7	0.0	0.0	0.0	0.0	0.0
60°	3769.8	2254.3	62.0	24.3	8.1	2.7	0.0	0.0	0.0	0.0	0.0
62.5°	3839.9	2160.0	48.5	16.2	5.4	2.7	0.0	0.0	0.0	0.0	0.0
65°	3799.5	2041.3	35.1	10.8	5.4	2.7	0.0	0.0	0.0	0.0	0.0
67.5°	3610.7	1858.0	24.3	8.1	2.7	2.7	0.0	0.0	0.0	0.0	0.0
69°	3386.9	1690.8	21.6	5.4	2.7	2.7	0.0	0.0	0.0	0.0	0.0
70°	3190.1	1561.3	18.9	5.4	2.7	2.7	0.0	0.0	0.0	0.0	0.0
72.5°	2375.7	1005.8	16.2	5.4	2.7	2.7	0.0	0.0	0.0	0.0	0.0
75°	1334.8	337.1	10.8	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	501.6	86.3	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	110.6	21.6	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.3	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.1	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)