

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: P594709

Luminaire Tested: **ISS-PA1D-730-U-T3**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594709  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISS-PA1D-730-U-T3  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7763 lumens  
Efficiency: N/A  
Efficacy: 123.2 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G2

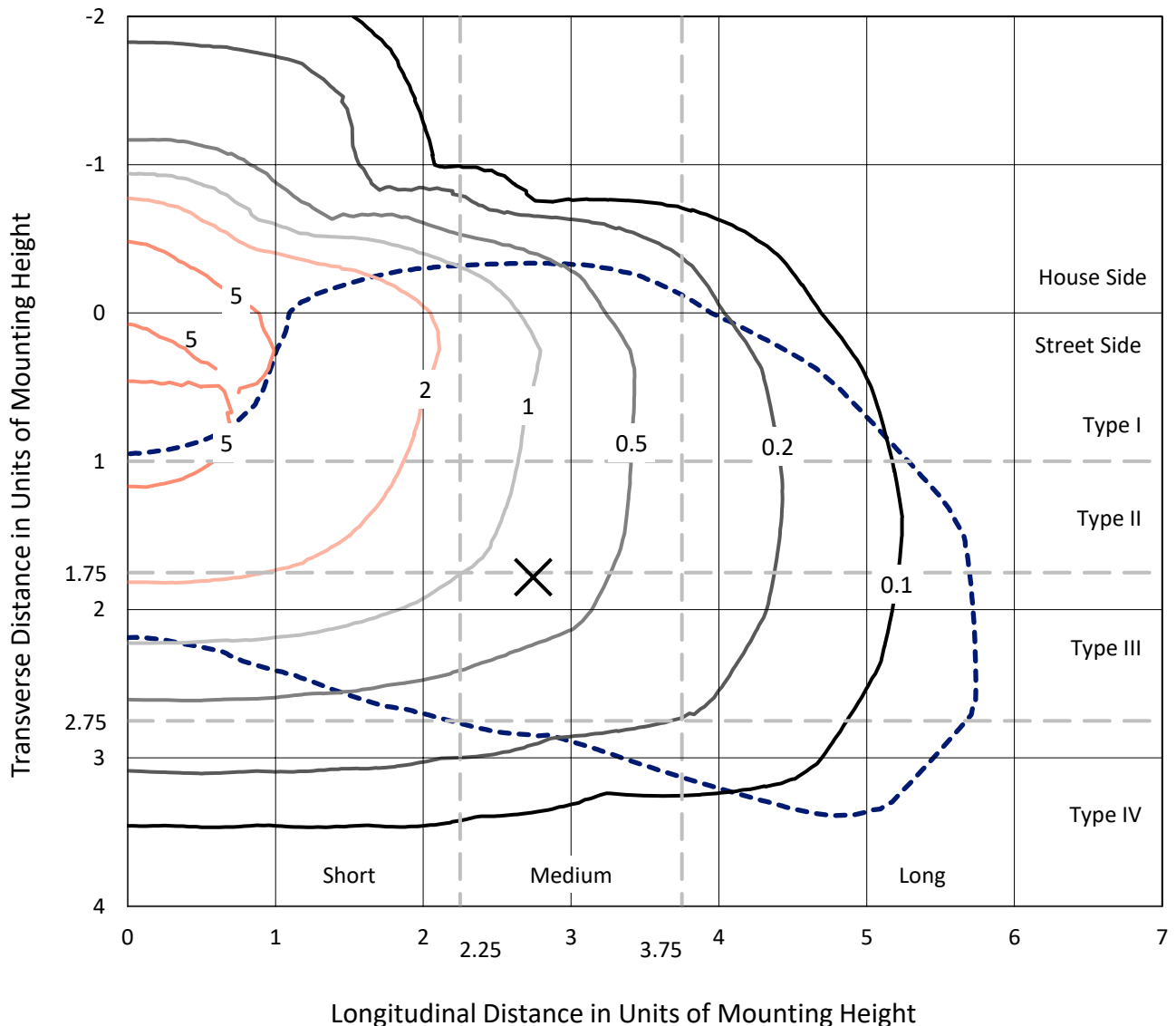
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

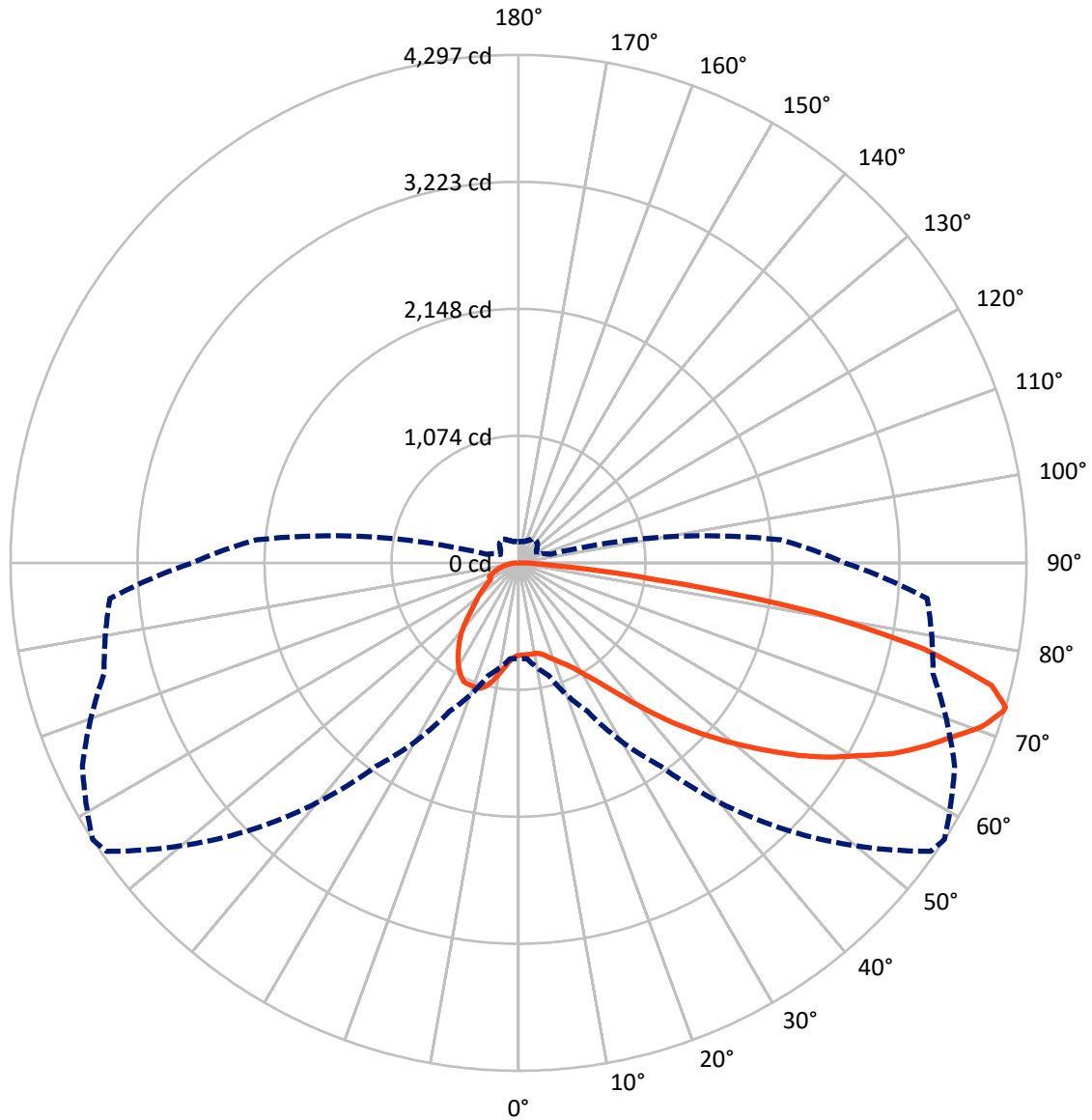
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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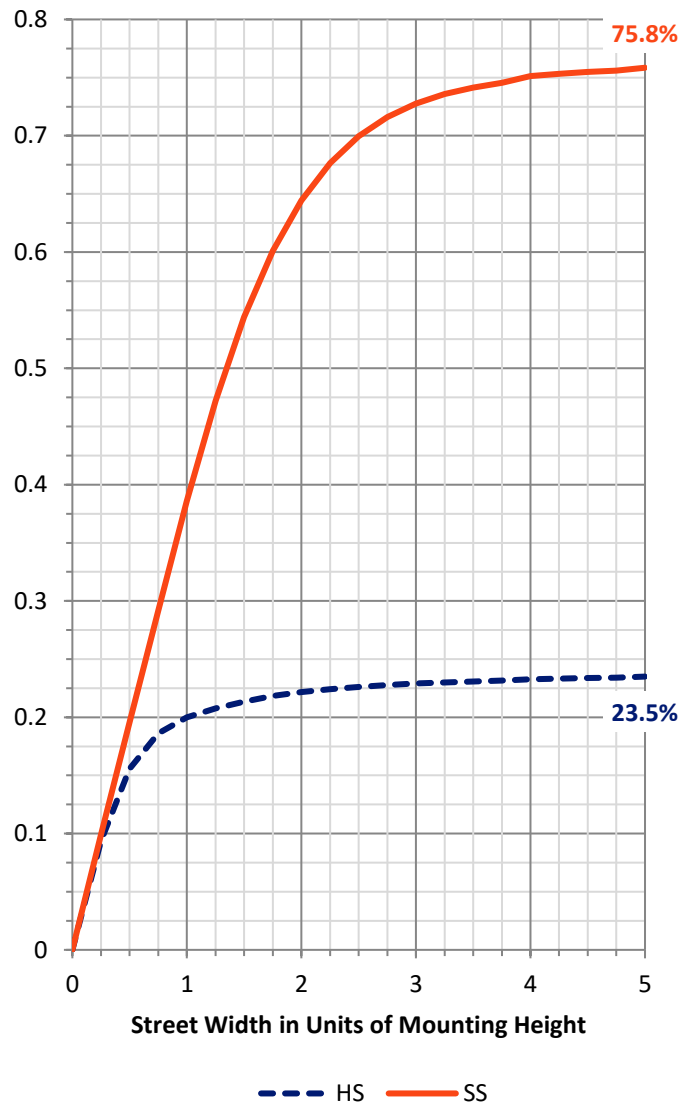
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1852.0	0.0	1852.0
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	5911.0	0.0	5911.0
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	7763.0	0.0	7763.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.0	1.0
10°-20°	256.8	3.3
20°-30°	474.1	6.1
30°-40°	732.1	9.4
40°-50°	1102.0	14.2
50°-60°	1612.8	20.8
60°-70°	1904.6	24.5
70°-80°	1363.6	17.6
80°-90°	238.9	3.1
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°	7763.0	100.0
0°-180°	7763.0	100.0

**Coefficient of Utilization**

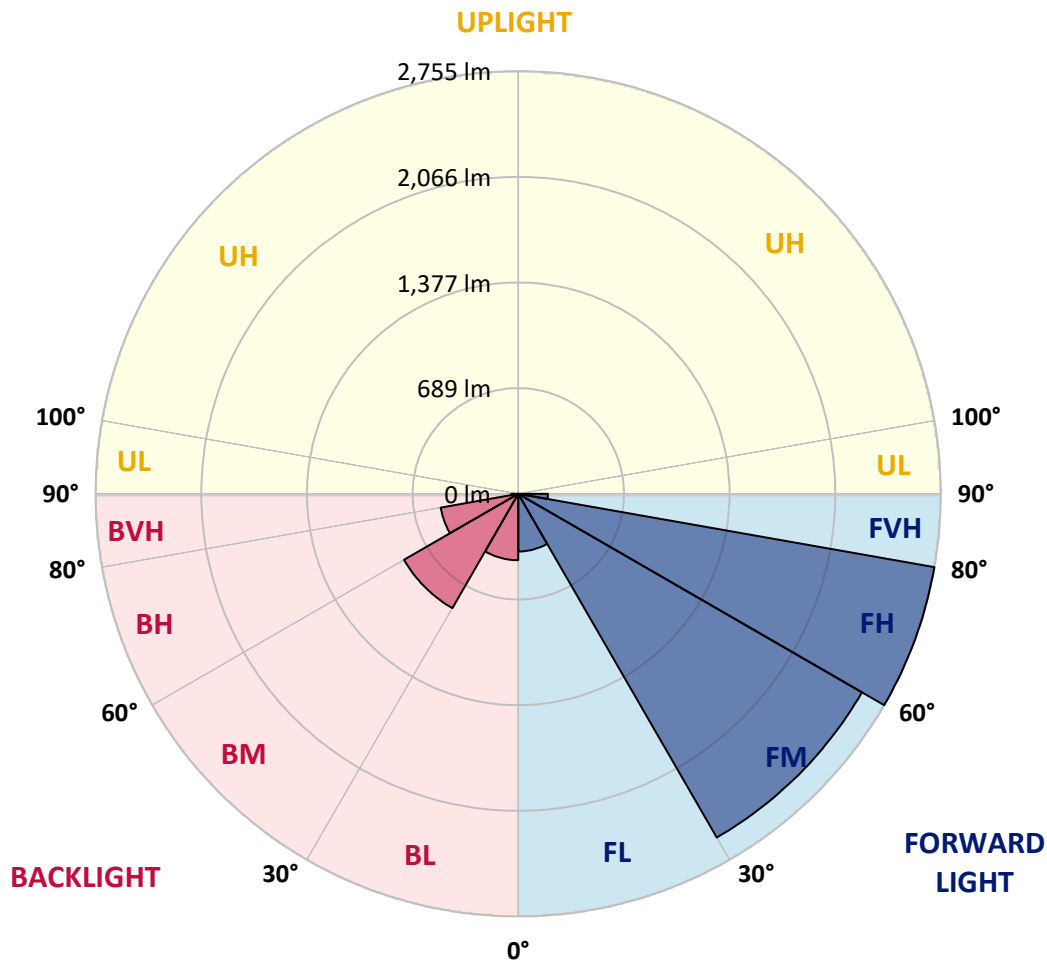


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	376.2	4.8			
FM (30°-60°)	2586.8	33.3			
FH (60°-80°)	2754.7	35.5			G2/5000
FVH (80°-90°)	193.3	2.5			G2/225
BL (0°-30°)	432.8	5.6	B1/500		
BM (30°-60°)	860.0	11.1	B1/1000		
BH (60°-80°)	513.5	6.6	B2/1000		G2/1000
BVH (80°-90°)	45.6	0.6			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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	782.1	782.1	782.1	782.1	782.1	782.1	782.1	782.1	782.1	782.1	782.1
2.5°	772.6	776.4	774.5	776.4	782.1	778.3	778.3	780.2	782.1	780.2	784.0
5°	740.3	742.2	746.0	753.6	766.9	770.7	780.2	780.2	784.0	787.8	793.5
7.5°	687.0	690.8	698.4	706.0	728.8	751.7	776.4	780.2	793.5	803.1	806.9
10°	677.5	681.3	683.2	694.6	717.4	740.3	770.7	778.3	803.1	818.3	835.4
12.5°	667.9	671.8	677.5	692.7	721.2	746.0	778.3	785.9	816.4	846.8	867.8
15°	675.6	677.5	683.2	698.4	726.9	761.2	803.1	808.8	843.0	881.1	913.4
17.5°	694.6	696.5	694.6	707.9	734.6	774.5	831.6	841.1	883.0	921.0	953.4
20°	738.4	740.3	732.6	732.6	751.7	791.6	862.1	875.4	926.8	968.6	1001.0
22.5°	833.5	829.7	810.7	785.9	785.9	818.3	896.3	915.3	980.0	1014.3	1042.8
25°	968.6	968.6	938.2	892.5	862.1	858.2	936.3	957.2	1033.3	1075.2	1092.3
27.5°	1132.3	1134.2	1084.7	1023.8	964.8	936.3	993.4	1014.3	1099.9	1143.7	1149.4
30°	1276.9	1278.8	1229.3	1172.2	1099.9	1037.1	1069.5	1092.3	1191.3	1225.5	1206.5
32.5°	1421.5	1423.4	1389.2	1311.2	1235.0	1157.0	1166.5	1179.8	1280.7	1313.1	1282.6
35°	1547.1	1552.8	1518.6	1459.6	1379.7	1309.3	1292.1	1294.0	1385.4	1406.3	1366.3
37.5°	1674.6	1674.6	1653.7	1598.5	1530.0	1452.0	1429.1	1434.8	1516.7	1537.6	1480.5
40°	1836.4	1844.0	1832.6	1764.1	1686.0	1621.3	1598.5	1606.1	1695.6	1684.1	1623.2
42.5°	2032.4	2049.5	2030.5	1956.3	1872.5	1800.2	1800.2	1800.2	1876.3	1878.2	1786.9
45°	2283.6	2283.6	2264.5	2199.8	2089.5	2017.2	1992.4	1998.1	2064.7	2072.3	1965.8
47.5°	2492.9	2511.9	2491.0	2443.4	2355.9	2287.4	2209.4	2199.8	2255.0	2255.0	2163.7
50°	2662.3	2696.5	2679.4	2700.3	2637.5	2603.3	2443.4	2416.8	2435.8	2454.8	2354.0
52.5°	2803.1	2829.7	2824.0	2884.9	2915.4	2934.4	2681.3	2639.4	2654.7	2652.8	2561.4
55°	2812.6	2822.1	2907.8	3044.8	3164.7	3254.1	2921.1	2875.4	2860.2	2852.6	2782.2
57.5°	2757.4	2763.1	2934.4	3096.2	3356.9	3459.6	3147.5	3101.9	3080.9	3054.3	3025.7
60°	2624.2	2652.8	2877.3	3126.6	3471.0	3619.5	3358.8	3311.2	3296.0	3238.9	3303.6
62.5°	2454.8	2468.2	2692.7	3063.8	3486.3	3688.0	3581.4	3552.9	3505.3	3423.5	3551.0
65°	2215.1	2213.2	2411.1	2879.2	3408.2	3722.2	3769.8	3754.6	3695.6	3554.8	3771.7
67.5°	1819.3	1863.0	2057.1	2551.9	3219.8	3756.5	3962.0	3943.0	3849.7	3672.8	3876.4
70°	1387.3	1413.9	1634.7	2060.9	2845.0	3663.2	4150.4	4156.1	3986.7	3697.5	3830.7
72.5°	884.9	930.6	1105.6	1501.5	2277.9	3316.9	4262.7	4289.3	4062.9	3663.2	3547.2
73°	810.7	814.5	985.7	1389.2	2100.9	3193.2	4255.1	4296.9	4070.5	3629.0	3469.1
75°	483.4	504.3	607.1	922.9	1499.5	2565.2	4049.5	4133.3	4030.5	3476.7	3041.0
77.5°	226.5	241.7	298.8	487.2	816.4	1543.3	3404.4	3503.4	3571.9	3042.9	2317.8
80°	119.9	121.8	146.5	245.5	437.7	635.6	2373.0	2536.7	2633.7	2291.2	1558.5
82.5°	100.9	100.9	114.2	157.9	279.7	247.4	978.1	1164.6	1427.2	1128.5	612.8
85°	81.8	83.7	114.2	118.0	199.8	127.5	234.1	293.1	553.8	498.6	68.5
87.5°	26.6	30.4	64.7	83.7	106.6	49.5	59.0	64.7	64.7	95.1	22.8
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°	782.1	782.1	782.1	782.1	782.1	782.1	782.1	782.1	782.1	782.1	782.1
2.5°	785.9	785.9	787.8	789.7	793.5	793.5	797.3	799.3	803.1	805.0	799.3
5°	793.5	797.3	801.2	812.6	825.9	837.3	848.7	858.2	867.8	873.5	871.6
7.5°	814.5	820.2	835.4	856.3	883.0	900.1	917.2	934.4	942.0	945.8	945.8
10°	843.0	854.4	883.0	917.2	947.7	974.3	987.6	999.1	1002.9	1006.7	1002.9
12.5°	883.0	898.2	942.0	985.7	1020.0	1033.3	1031.4	1016.2	995.3	991.5	987.6
15°	934.4	953.4	1002.9	1054.3	1080.9	1063.8	1020.0	1004.8	1001.0	1012.4	1008.6
17.5°	978.1	1001.0	1061.9	1115.1	1109.4	1050.4	1037.1	1044.7	1040.9	1042.8	1042.8
20°	1020.0	1052.3	1117.1	1153.2	1103.7	1065.7	1054.3	1044.7	1033.3	1037.1	1033.3
22.5°	1073.3	1096.1	1170.3	1172.2	1096.1	1065.7	1040.9	1021.9	1018.1	1020.0	1021.9
25°	1115.1	1151.3	1216.0	1158.9	1096.1	1035.2	1001.0	997.2	999.1	1010.5	1006.7
27.5°	1172.2	1208.4	1252.2	1151.3	1050.4	985.7	972.4	970.5	957.2	961.0	961.0
30°	1225.5	1269.3	1271.2	1151.3	993.4	943.9	924.8	890.6	862.1	867.8	865.9
32.5°	1297.8	1335.9	1275.0	1105.6	928.7	888.7	837.3	784.0	770.7	778.3	780.2
35°	1381.6	1412.0	1278.8	1029.5	864.0	810.7	717.4	687.0	685.1	690.8	696.5
37.5°	1491.9	1509.1	1307.3	942.0	801.2	688.9	616.6	609.0	591.8	580.4	582.3
40°	1627.0	1606.1	1362.5	864.0	726.9	578.5	548.1	527.1	494.8	462.4	468.1
42.5°	1777.4	1718.4	1379.7	801.2	626.1	510.0	481.5	449.1	409.1	374.9	373.0
45°	1939.1	1844.0	1364.4	751.7	525.2	458.6	428.2	390.1	342.5	314.0	314.0
47.5°	2131.3	1963.9	1316.9	711.7	454.8	412.9	374.9	336.8	304.5	277.8	277.8
50°	2342.6	2102.8	1282.6	641.3	405.3	369.2	331.1	300.7	275.9	255.0	255.0
52.5°	2565.2	2234.1	1254.1	538.5	361.6	329.2	302.6	277.8	256.9	230.3	226.5
55°	2791.7	2359.7	1267.4	439.6	321.6	300.7	283.5	258.8	251.2	245.5	241.7
57.5°	3027.6	2496.7	1299.7	359.7	287.4	285.4	277.8	295.0	312.1	300.7	295.0
60°	3212.2	2603.3	1303.5	302.6	266.4	300.7	338.7	344.4	298.8	272.1	270.2
62.5°	3358.8	2704.1	1214.1	262.6	272.1	354.0	361.6	304.5	258.8	247.4	247.4
65°	3434.9	2740.3	976.2	239.8	283.5	338.7	327.3	274.0	241.7	239.8	239.8
67.5°	3396.8	2711.7	683.2	215.0	251.2	293.1	293.1	251.2	222.6	232.2	228.4
70°	3214.1	2570.9	451.0	194.1	220.7	264.5	272.1	234.1	207.4	213.1	207.4
72.5°	2833.5	2319.7	296.9	171.3	190.3	234.1	253.1	215.0	190.3	188.4	182.7
73°	2759.3	2224.6	279.7	167.5	184.6	226.5	247.4	211.2	186.5	180.8	177.0
75°	2340.7	1855.4	211.2	150.3	163.7	203.6	230.3	197.9	171.3	163.7	159.9
77.5°	1705.1	1286.4	157.9	127.5	137.0	177.0	203.6	180.8	152.2	142.7	140.8
80°	1063.8	700.3	118.0	102.8	108.5	148.4	178.9	161.8	131.3	119.9	118.0
82.5°	416.8	228.4	81.8	76.1	79.9	112.3	150.3	140.8	110.4	100.9	95.1
85°	68.5	78.0	53.3	51.4	51.4	79.9	114.2	108.5	74.2	64.7	57.1
87.5°	19.0	36.2	20.9	19.0	19.0	34.3	62.8	49.5	30.4	24.7	22.8
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)