

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: P594858

Luminaire Tested: **ISS-PA1F-727-U-T2R**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594858  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISS-PA1F-727-U-T2R  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 2700K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9827 lumens  
Efficiency: N/A  
Efficacy: 104.1 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

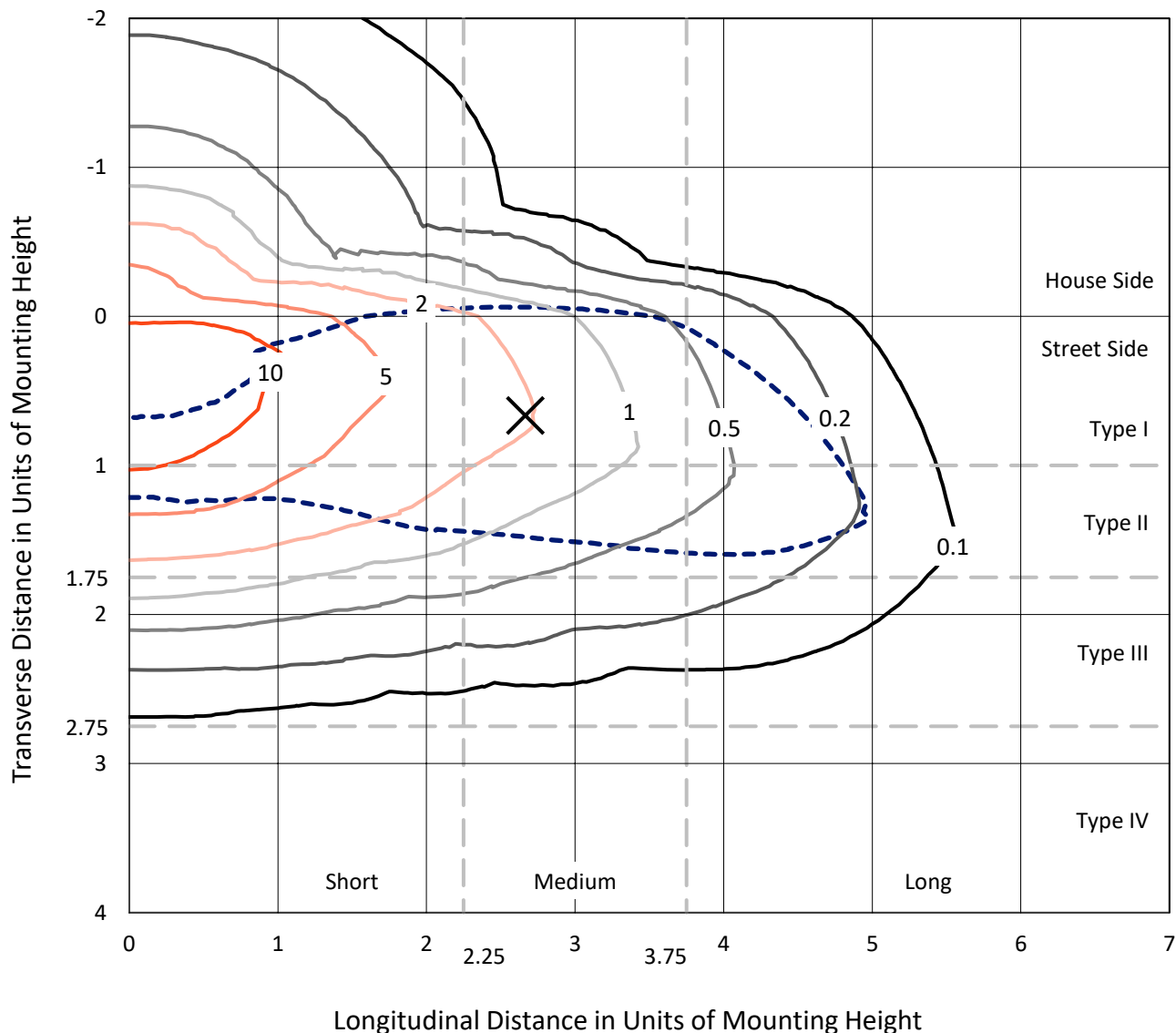
Input Watts (W): 94.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

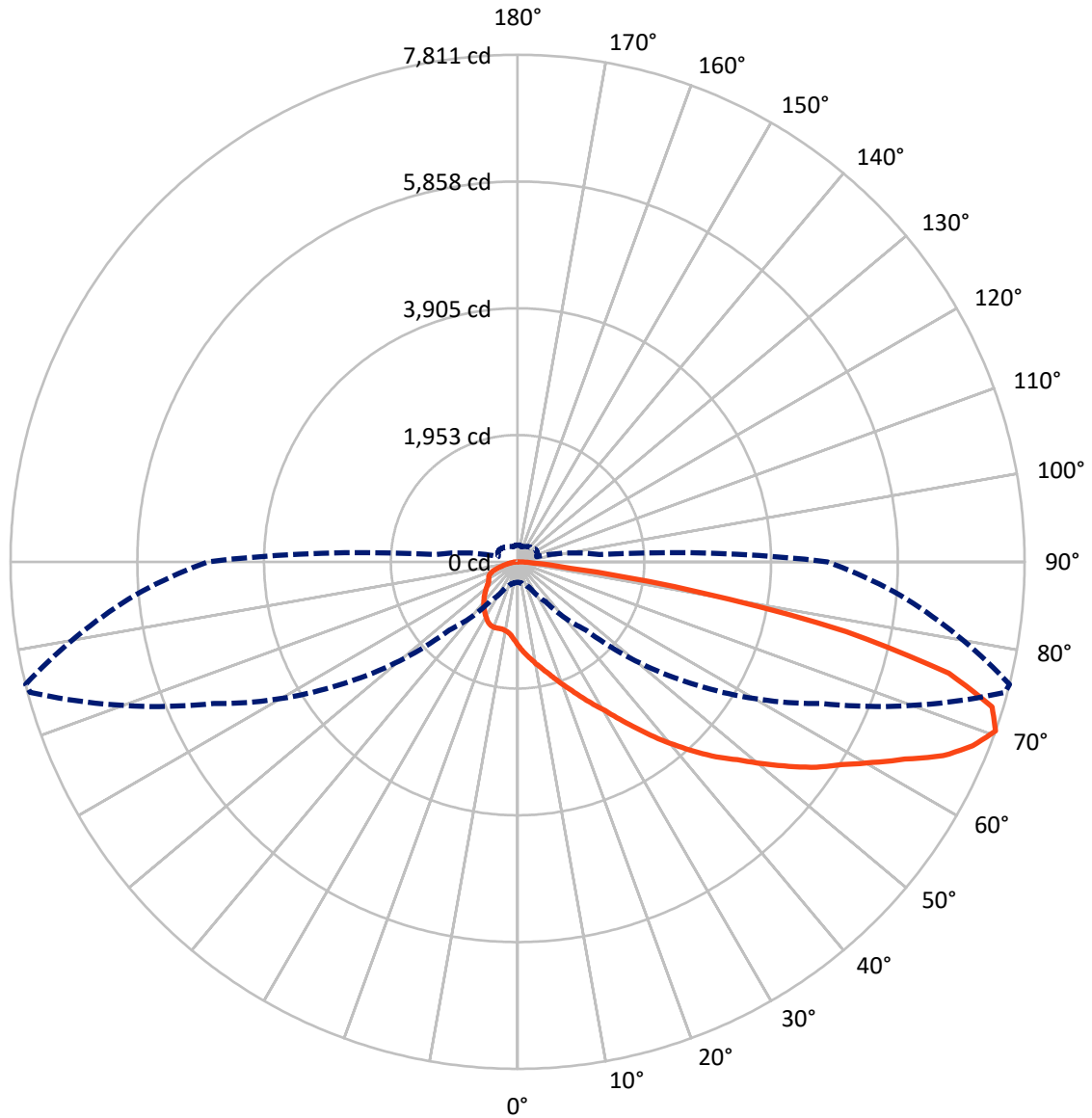
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 15.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical



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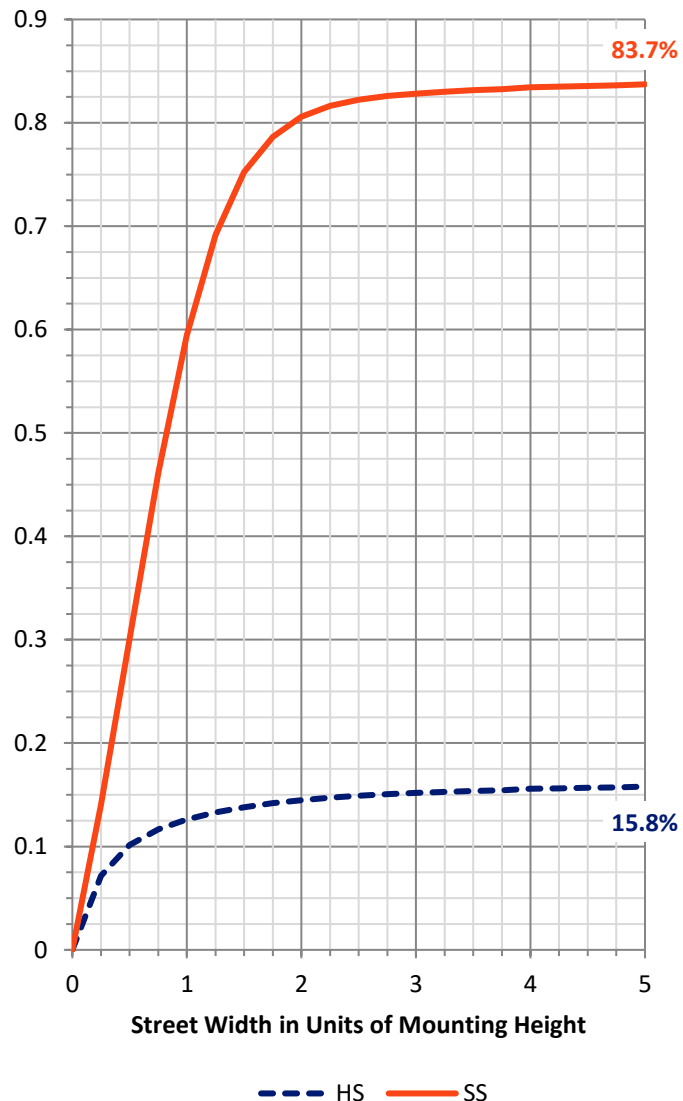
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1576.2	0.0	1576.2
	% Fixture	16.0	0.0	16.0
<b>Street Side</b>	Lumens	8250.8	0.0	8250.8
	% Fixture	84.0	0.0	84.0
<b>Total</b>	Lumens	9827.0	0.0	9827.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.7	1.3
10°-20°	414.6	4.2
20°-30°	764.1	7.8
30°-40°	1280.2	13.0
40°-50°	1819.1	18.5
50°-60°	2100.2	21.4
60°-70°	1930.7	19.6
70°-80°	1217.4	12.4
80°-90°	175.1	1.8
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°	9827.0	100.0
0°-180°	9827.0	100.0

**Coefficient of Utilization**

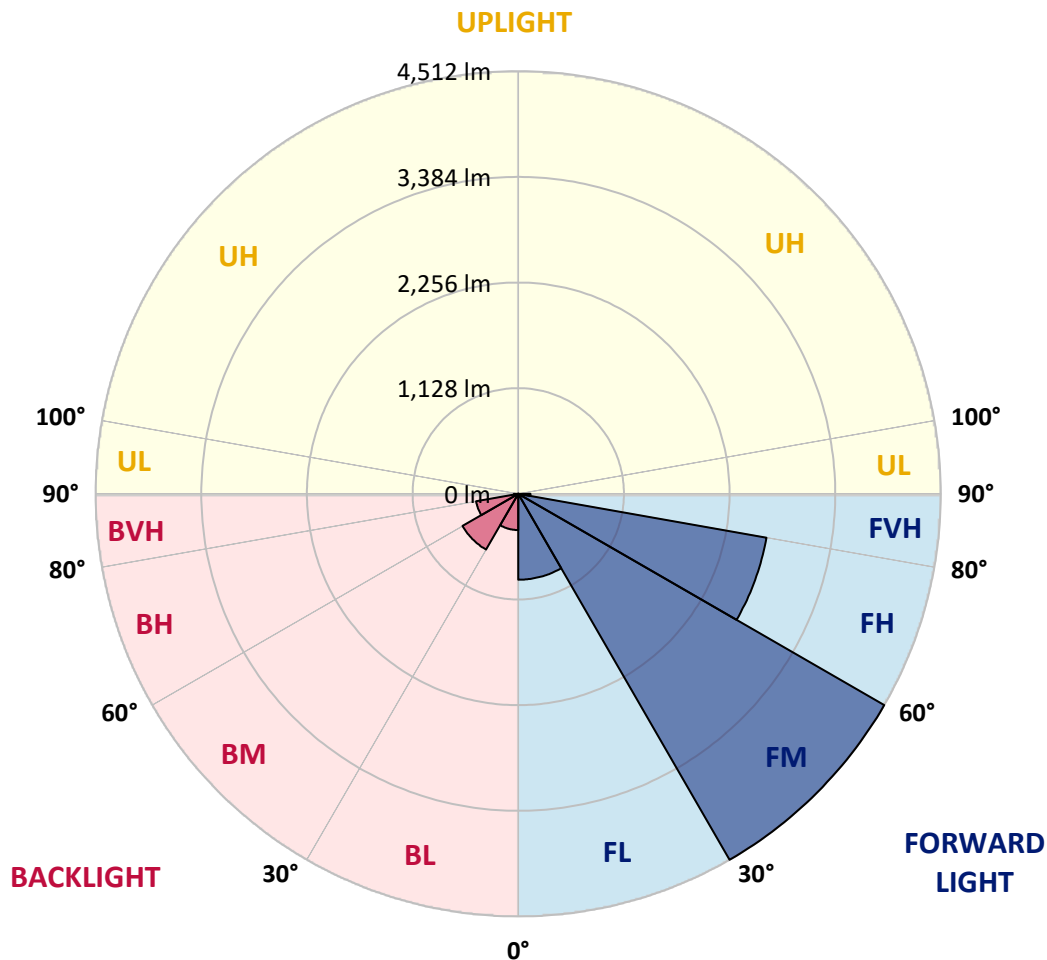


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	917.5	9.3			
FM (30°-60°)	4512.3	45.9			
FH (60°-80°)	2691.2	27.4			G2/5000
FVH (80°-90°)	129.8	1.3			G2/225
BL (0°-30°)	386.9	3.9	B1/500		
BM (30°-60°)	687.1	7.0	B1/1000		
BH (60°-80°)	456.8	4.6	B1/500		G1/500
BVH (80°-90°)	45.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1289.2	1289.2	1289.2	1289.2	1289.2	1289.2	1289.2	1289.2	1289.2	1289.2	1289.2
2.5°	1551.7	1549.4	1542.3	1530.4	1521.0	1492.6	1454.7	1421.6	1371.9	1367.2	1317.5
5°	1691.3	1681.8	1681.8	1670.0	1658.2	1627.4	1580.1	1521.0	1450.0	1445.3	1350.7
7.5°	1757.5	1759.9	1755.1	1745.7	1748.0	1722.0	1679.5	1620.3	1523.3	1518.6	1395.6
10°	1852.1	1849.8	1840.3	1833.2	1830.8	1807.2	1769.3	1714.9	1613.2	1603.8	1447.6
12.5°	1944.4	1937.3	1939.6	1937.3	1932.6	1908.9	1873.4	1819.0	1693.6	1688.9	1511.5
15°	1996.4	1994.1	2010.6	2015.3	2034.3	2013.0	1982.2	1920.7	1807.2	1788.3	1587.2
17.5°	2029.5	2027.2	2043.7	2081.6	2117.1	2117.1	2107.6	2041.4	1916.0	1901.8	1672.4
20°	2086.3	2095.8	2124.2	2154.9	2206.9	2216.4	2214.0	2185.7	2041.4	2027.2	1767.0
22.5°	2199.8	2195.1	2218.8	2266.1	2313.4	2327.6	2329.9	2329.9	2185.7	2159.6	1864.0
25°	2443.5	2431.7	2412.7	2408.0	2464.8	2462.4	2455.3	2471.9	2337.0	2318.1	1975.1
27.5°	2907.1	2881.1	2807.8	2661.1	2628.0	2639.8	2604.3	2606.7	2509.7	2486.1	2069.7
30°	3347.1	3335.2	3266.6	3089.2	2902.4	2836.1	2774.6	2748.6	2701.3	2661.1	2171.5
32.5°	3744.5	3746.8	3664.0	3470.1	3278.5	3070.3	2963.9	2909.5	2928.4	2892.9	2311.0
35°	4014.1	3992.8	3940.8	3810.7	3602.5	3403.8	3200.4	3079.8	3181.5	3141.3	2450.6
37.5°	4172.6	4156.0	4113.5	4021.2	3917.1	3725.5	3467.7	3283.2	3481.9	3422.8	2628.0
40°	4253.0	4229.4	4186.8	4149.0	4099.3	3995.2	3768.1	3515.0	3756.3	3704.3	2803.0
42.5°	4262.5	4245.9	4222.3	4203.4	4219.9	4205.7	4061.4	3784.7	4044.9	3988.1	3004.1
45°	4255.4	4267.2	4238.8	4205.7	4238.8	4359.5	4359.5	4054.3	4331.1	4288.5	3195.7
47.5°	4260.1	4248.3	4238.8	4229.4	4234.1	4399.7	4565.3	4307.4	4605.5	4555.8	3420.4
50°	4063.8	4080.4	4160.8	4196.3	4217.6	4409.1	4730.8	4581.8	4946.1	4884.6	3671.1
52.5°	3439.3	3448.8	3815.4	4080.4	4165.5	4371.3	4846.8	4887.0	5282.0	5234.7	3940.8
55°	2649.3	2698.9	3046.7	3694.8	4047.2	4307.4	4882.2	5085.7	5625.0	5587.1	4212.8
57.5°	2180.9	2188.0	2389.1	2968.6	3673.5	4248.3	4917.7	5267.8	5932.5	5889.9	4496.7
60°	1809.5	1793.0	1916.0	2289.7	3051.4	4011.8	4924.8	5412.1	6289.7	6275.5	4790.0
62.5°	1329.4	1348.3	1466.6	1783.5	2386.7	3531.6	4889.3	5535.1	6715.4	6696.5	5116.4
65°	816.1	839.7	984.0	1275.0	1807.2	2803.0	4657.5	5599.0	7162.5	7205.1	5468.9
67.5°	432.9	449.4	534.6	771.1	1239.5	2136.0	4099.3	5518.5	7541.0	7559.9	5807.1
70°	317.0	319.3	347.7	435.2	747.5	1485.5	3264.3	5168.5	7772.8	7810.6	5918.3
72.5°	276.8	279.1	290.9	312.2	406.9	906.0	2339.4	4558.2	7675.8	7642.7	5731.4
75°	250.7	250.7	260.2	267.3	298.0	501.5	1433.4	3730.3	6935.4	6862.1	4887.0
77.5°	215.3	215.3	224.7	234.2	257.8	324.1	749.8	2765.2	5303.3	5177.9	3342.3
80°	172.7	172.7	184.5	196.3	227.1	243.6	366.6	1849.8	3032.5	2848.0	1521.0
82.5°	118.3	127.7	149.0	163.2	189.2	172.7	215.3	799.5	955.6	827.9	343.0
85°	71.0	75.7	106.4	123.0	141.9	92.3	132.5	307.5	286.2	250.7	78.1
87.5°	7.1	11.8	42.6	49.7	49.7	26.0	56.8	73.3	82.8	85.2	18.9
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°	1289.2	1289.2	1289.2	1289.2	1289.2	1289.2	1289.2	1289.2	1289.2	1289.2	1289.2
2.5°	1289.2	1260.8	1206.4	1156.7	1107.0	1073.9	1040.8	1029.0	1012.4	1000.6	1010.0
5°	1301.0	1241.8	1137.8	1050.2	991.1	946.2	924.9	913.1	903.6	901.2	898.9
7.5°	1315.2	1227.7	1088.1	991.1	934.3	913.1	908.3	908.3	908.3	910.7	913.1
10°	1345.9	1232.4	1062.1	958.0	927.2	922.5	924.9	934.3	934.3	936.7	936.7
12.5°	1381.4	1244.2	1043.2	953.3	934.3	936.7	939.1	943.8	943.8	950.9	948.5
15°	1433.4	1267.9	1040.8	958.0	941.4	936.7	936.7	934.3	934.3	934.3	939.1
17.5°	1499.7	1301.0	1043.2	958.0	934.3	924.9	917.8	910.7	901.2	906.0	901.2
20°	1565.9	1341.2	1043.2	946.2	915.4	891.8	870.5	858.6	846.8	844.5	846.8
22.5°	1648.7	1388.5	1031.3	920.1	875.2	842.1	811.3	794.8	775.9	768.8	764.0
25°	1719.7	1426.4	1007.7	882.3	830.3	783.0	742.7	714.4	690.7	686.0	686.0
27.5°	1793.0	1459.5	972.2	835.0	766.4	714.4	669.4	633.9	610.3	607.9	605.5
30°	1861.6	1487.9	924.9	783.0	709.6	648.1	596.1	565.3	544.0	532.2	525.1
32.5°	1951.5	1525.7	879.9	730.9	643.4	581.9	534.6	508.6	480.2	461.3	454.2
35°	2065.0	1570.6	830.3	674.1	584.3	522.8	494.4	456.5	421.0	399.8	392.7
37.5°	2192.7	1634.5	778.2	615.0	525.1	480.2	463.6	404.5	366.6	359.5	357.2
40°	2351.2	1696.0	719.1	553.5	468.4	456.5	428.1	366.6	347.7	345.4	343.0
42.5°	2509.7	1762.2	662.3	492.0	423.4	428.1	387.9	357.2	340.6	335.9	333.5
45°	2694.2	1828.5	605.5	437.6	387.9	387.9	366.6	347.7	333.5	328.8	328.8
47.5°	2888.2	1894.7	544.0	390.3	361.9	347.7	350.1	335.9	326.4	321.7	319.3
50°	3131.8	1958.6	487.3	357.2	345.4	326.4	333.5	324.1	319.3	314.6	312.2
52.5°	3361.3	1987.0	435.2	338.3	335.9	317.0	319.3	314.6	312.2	305.1	302.8
55°	3586.0	1979.9	395.0	328.8	324.1	314.6	309.9	307.5	305.1	298.0	295.7
57.5°	3836.7	1970.4	369.0	326.4	317.0	307.5	307.5	300.4	290.9	290.9	290.9
60°	4096.9	1939.6	357.2	326.4	314.6	307.5	302.8	295.7	286.2	288.6	286.2
62.5°	4390.2	1880.5	350.1	333.5	317.0	305.1	300.4	290.9	279.1	281.5	279.1
65°	4648.1	1759.9	345.4	340.6	321.7	307.5	295.7	283.9	269.7	272.0	269.7
67.5°	4823.1	1556.4	331.2	345.4	328.8	305.1	290.9	274.4	255.5	264.9	262.6
70°	4773.4	1265.5	305.1	335.9	335.9	307.5	283.9	262.6	241.3	260.2	253.1
72.5°	4387.9	950.9	255.5	302.8	331.2	307.5	269.7	243.6	224.7	236.5	222.3
75°	3602.5	645.8	203.4	241.3	309.9	309.9	257.8	224.7	201.1	194.0	189.2
77.5°	2247.2	402.1	158.5	177.4	260.2	307.5	246.0	201.1	167.9	163.2	158.5
80°	889.4	215.3	125.4	127.7	191.6	281.5	229.4	170.3	134.8	130.1	120.6
82.5°	203.4	108.8	87.5	85.2	118.3	229.4	208.2	134.8	104.1	104.1	87.5
85°	61.5	56.8	56.8	54.4	59.1	118.3	160.8	92.3	71.0	49.7	42.6
87.5°	16.6	23.7	21.3	18.9	18.9	16.6	52.0	23.7	14.2	7.1	4.7
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)