

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: P594795

Luminaire Tested: **ISS-PA1E-735-U-T2R**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594795  
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-PA1E-735-U-T2R  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 3500K, 1050mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9987 lumens  
Efficiency: N/A  
Efficacy: 121.2 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

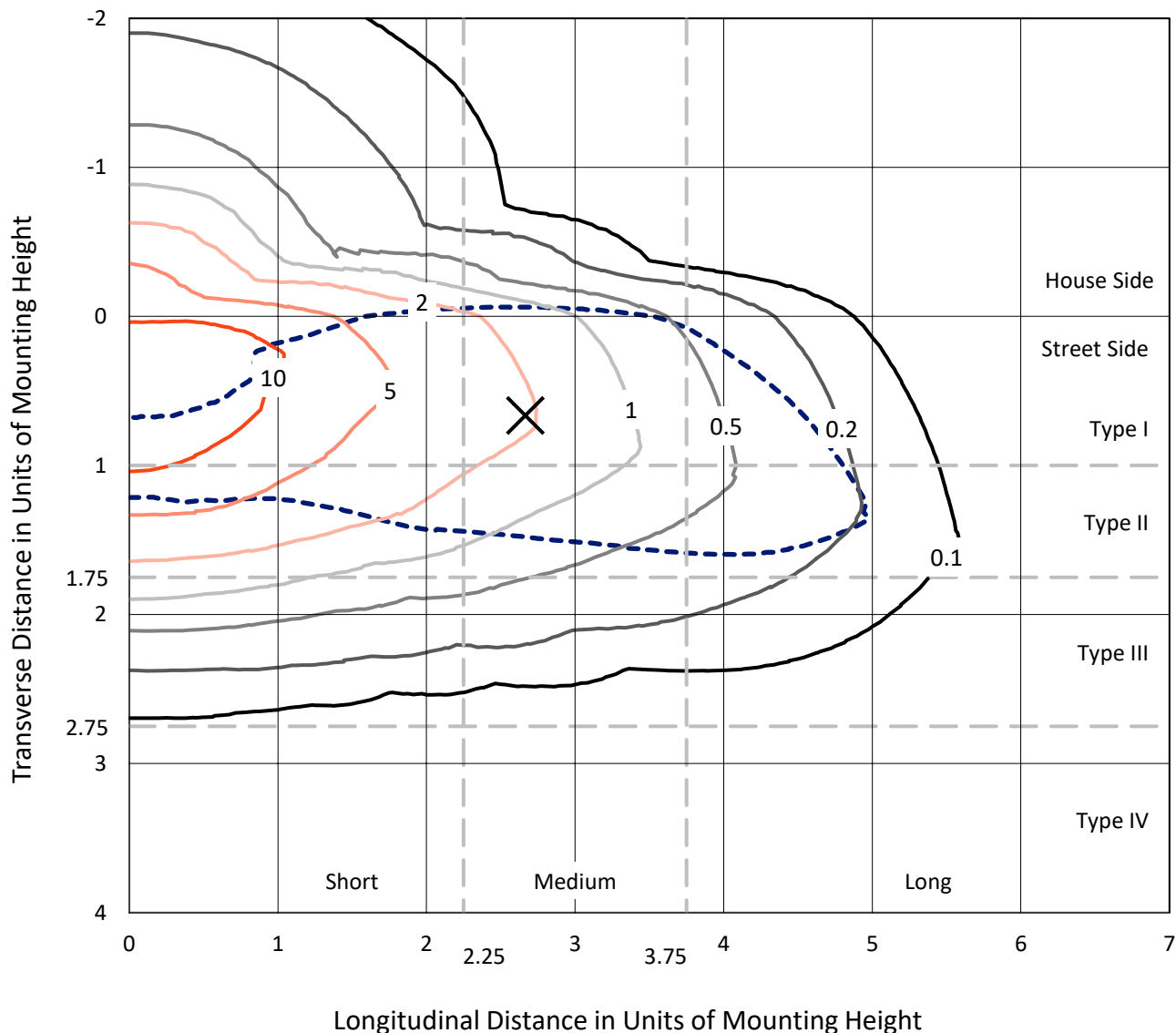
Input Watts (W): 82.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

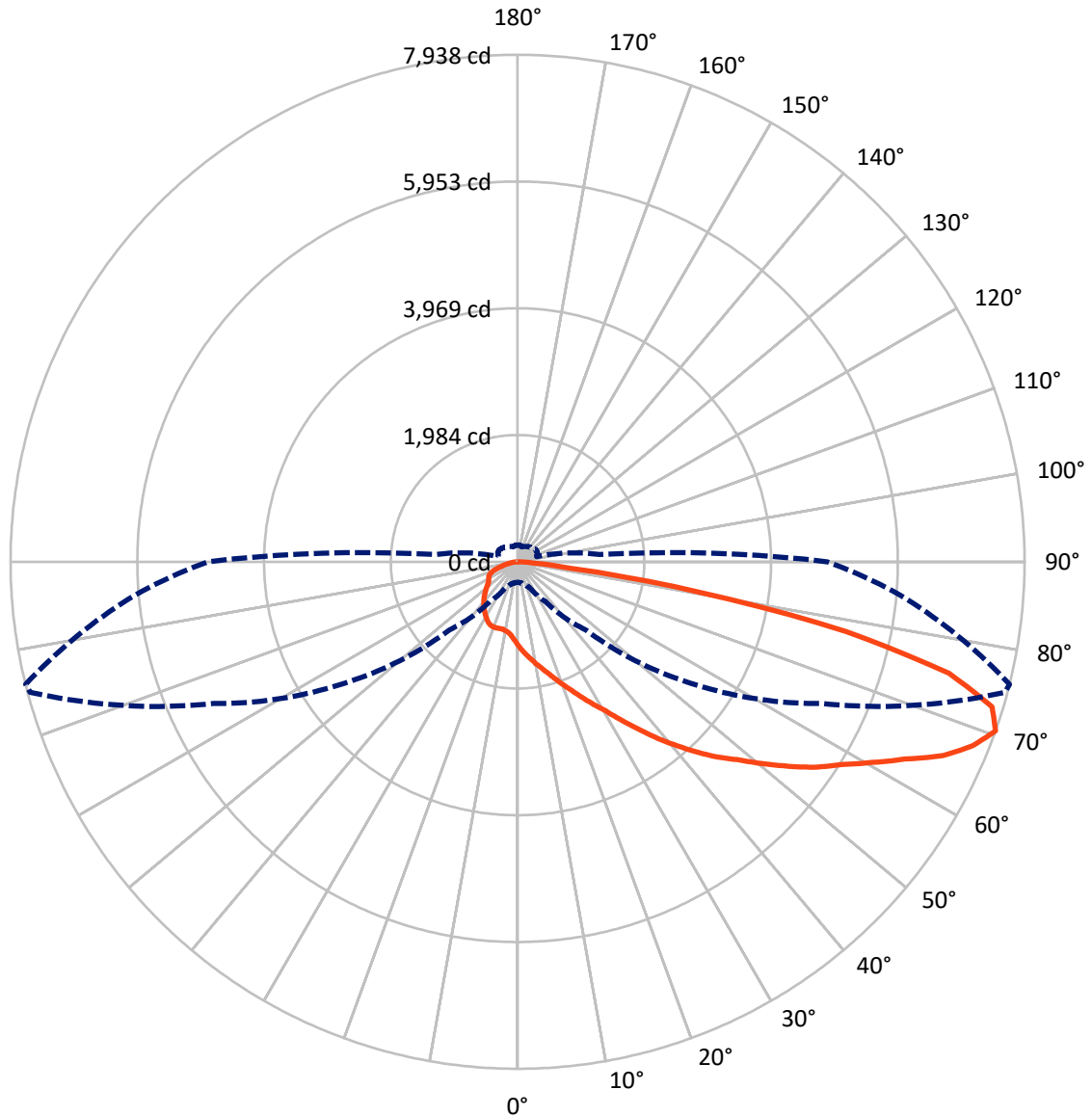
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 15.8 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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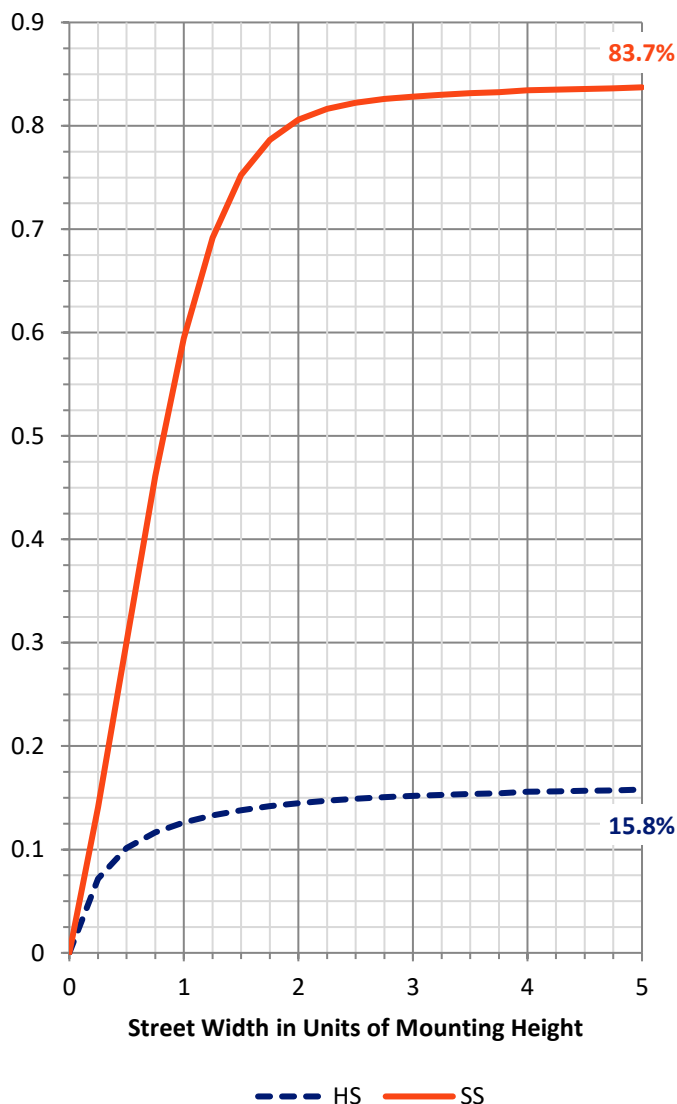
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1601.8	0.0	1601.8
	% Fixture	16.0	0.0	16.0
<b>Street Side</b>	Lumens	8385.2	0.0	8385.2
	% Fixture	84.0	0.0	84.0
<b>Total</b>	Lumens	9987.0	0.0	9987.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.7	1.3
10°-20°	421.4	4.2
20°-30°	776.5	7.8
30°-40°	1301.0	13.0
40°-50°	1848.7	18.5
50°-60°	2134.4	21.4
60°-70°	1962.1	19.6
70°-80°	1237.2	12.4
80°-90°	177.9	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°	9987.0	100.0
0°-180°	9987.0	100.0

**Coefficient of Utilization**

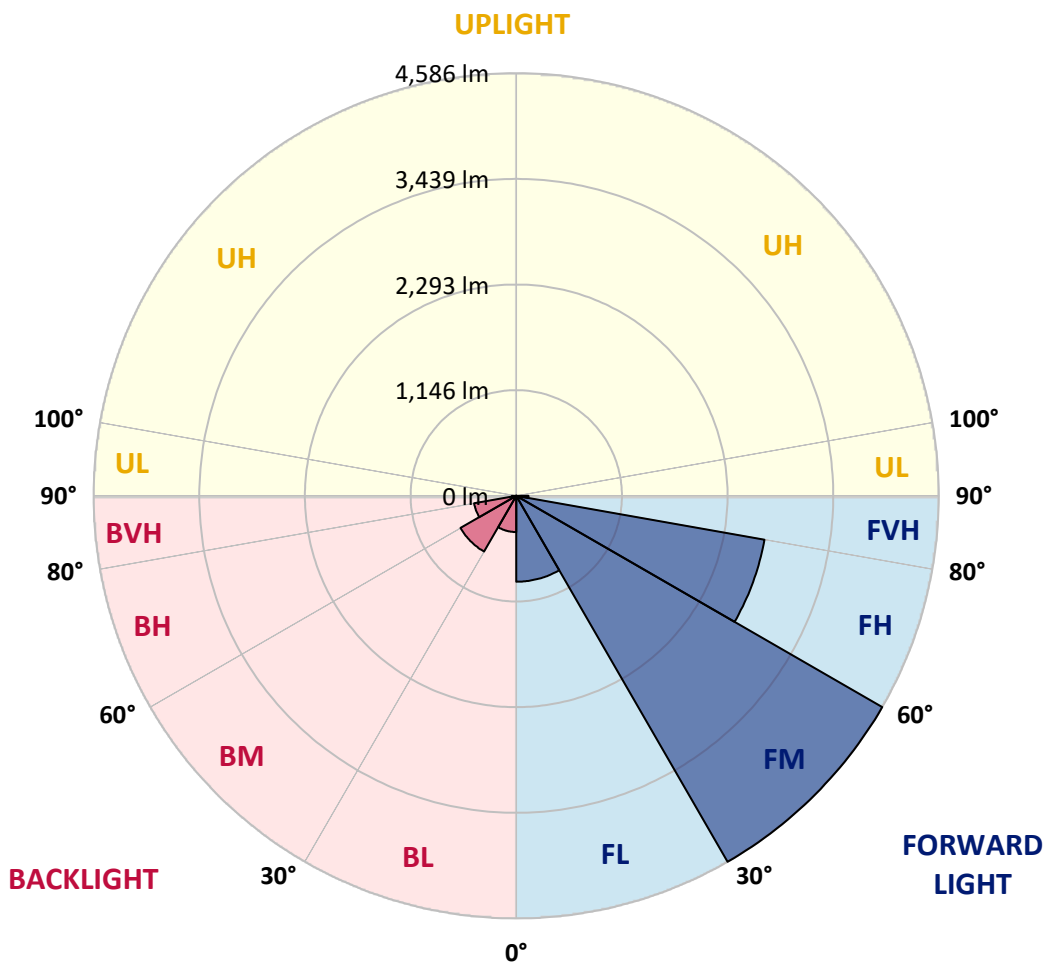


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	932.4	9.3			
FM (30°-60°)	4585.8	45.9			
FH (60°-80°)	2735.1	27.4			G2/5000
FVH (80°-90°)	131.9	1.3			G2/225
BL (0°-30°)	393.2	3.9	B1/500		
BM (30°-60°)	698.3	7.0	B1/1000		
BH (60°-80°)	464.3	4.6	B1/500		G1/500
BVH (80°-90°)	46.0	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°	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1
2.5°	1577.0	1574.6	1567.4	1555.3	1545.7	1516.9	1478.4	1444.8	1394.3	1389.5	1339.0
5°	1718.8	1709.2	1709.2	1697.2	1685.2	1653.9	1605.8	1545.7	1473.6	1468.8	1372.6
7.5°	1786.1	1788.5	1783.7	1774.1	1776.5	1750.1	1706.8	1646.7	1548.1	1543.3	1418.3
10°	1882.3	1879.9	1870.3	1863.1	1860.6	1836.6	1798.1	1742.9	1639.5	1629.9	1471.2
12.5°	1976.0	1968.8	1971.2	1968.8	1964.0	1940.0	1903.9	1848.6	1721.2	1716.4	1536.1
15°	2028.9	2026.5	2043.3	2048.2	2067.4	2045.8	2014.5	1952.0	1836.6	1817.4	1613.0
17.5°	2062.6	2060.2	2077.0	2115.5	2151.5	2151.5	2141.9	2074.6	1947.2	1932.8	1699.6
20°	2120.3	2129.9	2158.7	2190.0	2242.9	2252.5	2250.1	2221.2	2074.6	2060.2	1795.7
22.5°	2235.7	2230.9	2254.9	2303.0	2351.0	2365.5	2367.9	2367.9	2221.2	2194.8	1894.3
25°	2483.3	2471.2	2452.0	2447.2	2504.9	2502.5	2495.3	2512.1	2375.1	2355.9	2007.3
27.5°	2954.4	2928.0	2853.5	2704.4	2670.8	2682.8	2646.7	2649.1	2550.6	2526.5	2103.4
30°	3401.6	3389.6	3319.8	3139.5	2949.6	2882.3	2819.8	2793.4	2745.3	2704.4	2206.8
32.5°	3805.4	3807.8	3723.7	3526.6	3331.9	3120.3	3012.1	2956.8	2976.1	2940.0	2348.6
35°	4079.5	4057.8	4005.0	3872.7	3661.2	3459.3	3252.5	3129.9	3233.3	3192.4	2490.5
37.5°	4240.5	4223.7	4180.4	4086.7	3980.9	3786.2	3524.2	3336.7	3538.6	3478.5	2670.8
40°	4322.3	4298.2	4255.0	4216.5	4166.0	4060.2	3829.5	3572.2	3817.5	3764.6	2848.7
42.5°	4331.9	4315.1	4291.0	4271.8	4288.6	4274.2	4127.6	3846.3	4110.7	4053.0	3053.0
45°	4324.7	4336.7	4307.9	4274.2	4307.9	4430.5	4430.5	4120.3	4401.6	4358.3	3247.7
47.5°	4329.5	4317.5	4307.9	4298.2	4303.0	4471.3	4639.6	4377.6	4680.5	4630.0	3476.1
50°	4130.0	4146.8	4228.5	4264.6	4286.2	4480.9	4807.9	4656.4	5026.6	4964.1	3730.9
52.5°	3495.3	3504.9	3877.5	4146.8	4233.3	4442.5	4925.7	4966.5	5368.0	5319.9	4005.0
55°	2692.4	2742.9	3096.3	3754.9	4113.1	4377.6	4961.7	5168.5	5716.6	5678.1	4281.4
57.5°	2216.4	2223.6	2428.0	3016.9	3733.3	4317.5	4997.8	5353.6	6029.1	5985.8	4569.9
60°	1839.0	1822.2	1947.2	2327.0	3101.1	4077.1	5005.0	5500.2	6392.1	6377.6	4868.0
62.5°	1351.0	1370.2	1490.4	1812.6	2425.6	3589.1	4968.9	5625.2	6824.8	6805.5	5199.7
65°	829.4	853.4	1000.0	1295.7	1836.6	2848.7	4733.4	5690.1	7279.1	7322.4	5557.9
67.5°	439.9	456.7	543.3	783.7	1259.7	2170.8	4166.0	5608.4	7663.7	7683.0	5901.7
70°	322.1	324.5	353.4	442.3	759.6	1509.7	3317.4	5252.6	7899.3	7937.8	6014.6
72.5°	281.3	283.7	295.7	317.3	413.5	920.7	2377.5	4632.4	7800.8	7767.1	5824.7
75°	254.8	254.8	264.4	271.6	302.9	509.6	1456.8	3791.0	7048.3	6973.8	4966.5
77.5°	218.8	218.8	228.4	238.0	262.0	329.3	762.0	2810.2	5389.6	5262.2	3396.8
80°	175.5	175.5	187.5	199.5	230.8	247.6	372.6	1879.9	3081.8	2894.3	1545.7
82.5°	120.2	129.8	151.4	165.9	192.3	175.5	218.8	812.5	971.2	841.4	348.6
85°	72.1	76.9	108.2	125.0	144.2	93.8	134.6	312.5	290.9	254.8	79.3
87.5°	7.2	12.0	43.3	50.5	50.5	26.4	57.7	74.5	84.1	86.5	19.2
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°	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1	1310.1
2.5°	1310.1	1281.3	1226.0	1175.5	1125.0	1091.4	1057.7	1045.7	1028.9	1016.9	1026.5
5°	1322.2	1262.1	1156.3	1067.3	1007.2	961.6	939.9	927.9	918.3	915.9	913.5
7.5°	1336.6	1247.6	1105.8	1007.2	949.6	927.9	923.1	923.1	923.1	925.5	927.9
10°	1367.8	1252.5	1079.4	973.6	942.3	937.5	939.9	949.6	949.6	952.0	952.0
12.5°	1403.9	1264.5	1060.1	968.8	949.6	952.0	954.4	959.2	959.2	966.4	964.0
15°	1456.8	1288.5	1057.7	973.6	956.8	952.0	952.0	949.6	949.6	949.6	954.4
17.5°	1524.1	1322.2	1060.1	973.6	949.6	939.9	932.7	925.5	915.9	920.7	915.9
20°	1591.4	1363.0	1060.1	961.6	930.3	906.3	884.6	872.6	860.6	858.2	860.6
22.5°	1675.5	1411.1	1048.1	935.1	889.5	855.8	824.6	807.7	788.5	781.3	776.5
25°	1747.7	1449.6	1024.1	896.7	843.8	795.7	754.8	726.0	701.9	697.1	697.1
27.5°	1822.2	1483.2	988.0	848.6	778.9	726.0	680.3	644.3	620.2	617.8	615.4
30°	1891.9	1512.1	939.9	795.7	721.2	658.7	605.8	574.5	552.9	540.9	533.7
32.5°	1983.2	1550.5	894.3	742.8	653.9	591.4	543.3	516.8	488.0	468.8	461.6
35°	2098.6	1596.2	843.8	685.1	593.8	531.3	502.4	464.0	427.9	406.3	399.1
37.5°	2228.4	1661.1	790.9	625.0	533.7	488.0	471.2	411.1	372.6	365.4	363.0
40°	2389.5	1723.6	730.8	562.5	476.0	464.0	435.1	372.6	353.4	351.0	348.6
42.5°	2550.6	1790.9	673.1	500.0	430.3	435.1	394.2	363.0	346.2	341.4	339.0
45°	2738.1	1858.2	615.4	444.7	394.2	394.2	372.6	353.4	339.0	334.1	334.1
47.5°	2935.2	1925.6	552.9	396.6	367.8	353.4	355.8	341.4	331.7	326.9	324.5
50°	3182.8	1990.5	495.2	363.0	351.0	331.7	339.0	329.3	324.5	319.7	317.3
52.5°	3416.0	2019.3	442.3	343.8	341.4	322.1	324.5	319.7	317.3	310.1	307.7
55°	3644.4	2012.1	401.5	334.1	329.3	319.7	314.9	312.5	310.1	302.9	300.5
57.5°	3899.2	2002.5	375.0	331.7	322.1	312.5	312.5	305.3	295.7	295.7	295.7
60°	4163.6	1971.2	363.0	331.7	319.7	312.5	307.7	300.5	290.9	293.3	290.9
62.5°	4461.7	1911.1	355.8	339.0	322.1	310.1	305.3	295.7	283.7	286.1	283.7
65°	4723.7	1788.5	351.0	346.2	326.9	312.5	300.5	288.5	274.0	276.5	274.0
67.5°	4901.6	1581.8	336.6	351.0	334.1	310.1	295.7	278.9	259.6	269.2	266.8
70°	4851.1	1286.1	310.1	341.4	341.4	312.5	288.5	266.8	245.2	264.4	257.2
72.5°	4459.3	966.4	259.6	307.7	336.6	312.5	274.0	247.6	228.4	240.4	226.0
75°	3661.2	656.3	206.7	245.2	314.9	314.9	262.0	228.4	204.3	197.1	192.3
77.5°	2283.7	408.7	161.1	180.3	264.4	312.5	250.0	204.3	170.7	165.9	161.1
80°	903.9	218.8	127.4	129.8	194.7	286.1	233.2	173.1	137.0	132.2	122.6
82.5°	206.7	110.6	88.9	86.5	120.2	233.2	211.5	137.0	105.8	105.8	88.9
85°	62.5	57.7	57.7	55.3	60.1	120.2	163.5	93.8	72.1	50.5	43.3
87.5°	16.8	24.0	21.6	19.2	19.2	16.8	52.9	24.0	14.4	7.2	4.8
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)