

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: P594547

Luminaire Tested: **ISS-PA1B-730-U-T3**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594547  
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-PA1B-730-U-T3  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 3000K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4772 lumens  
Efficiency: N/A  
Efficacy: 131.1 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

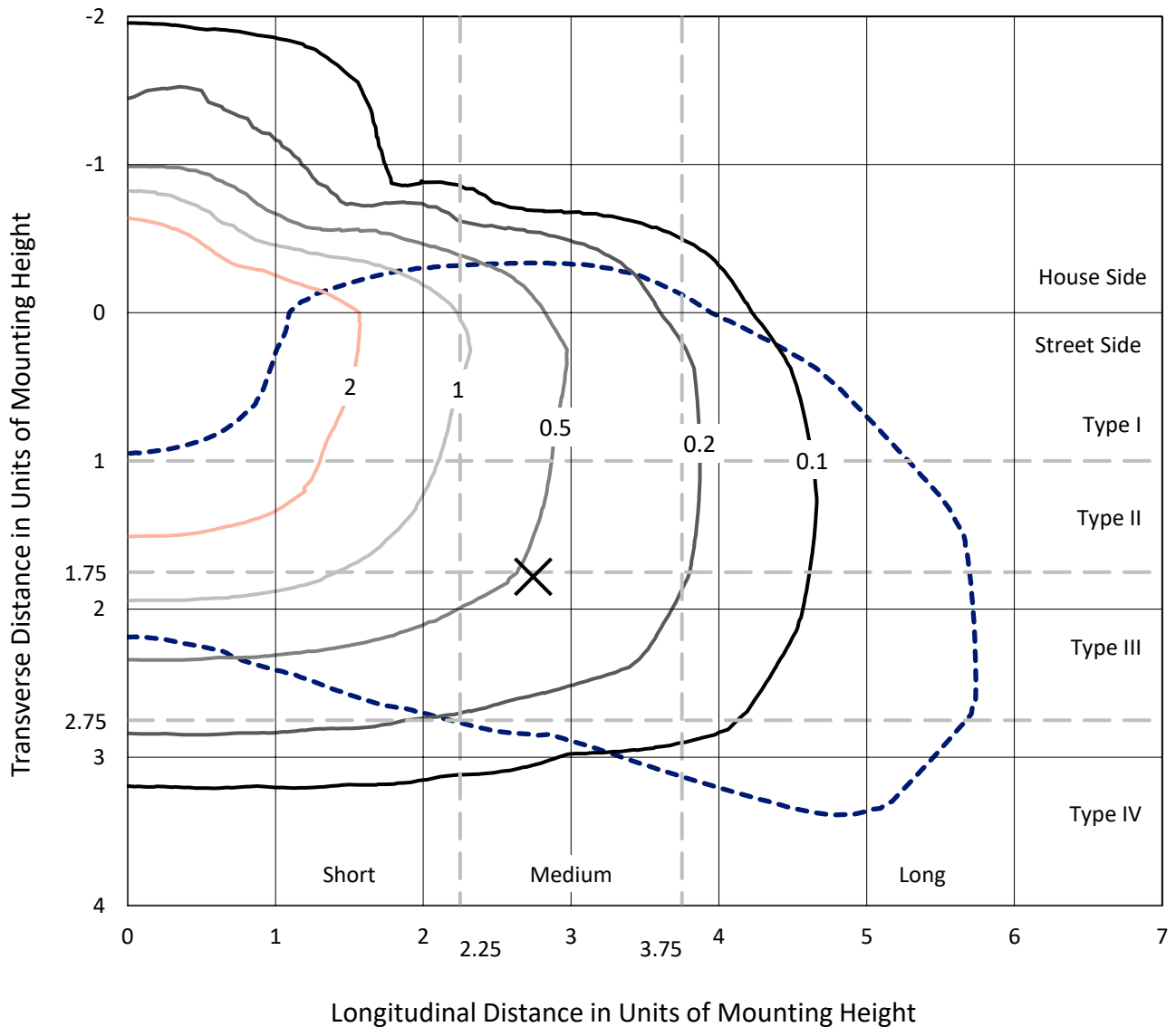
Input Watts (W): 36.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

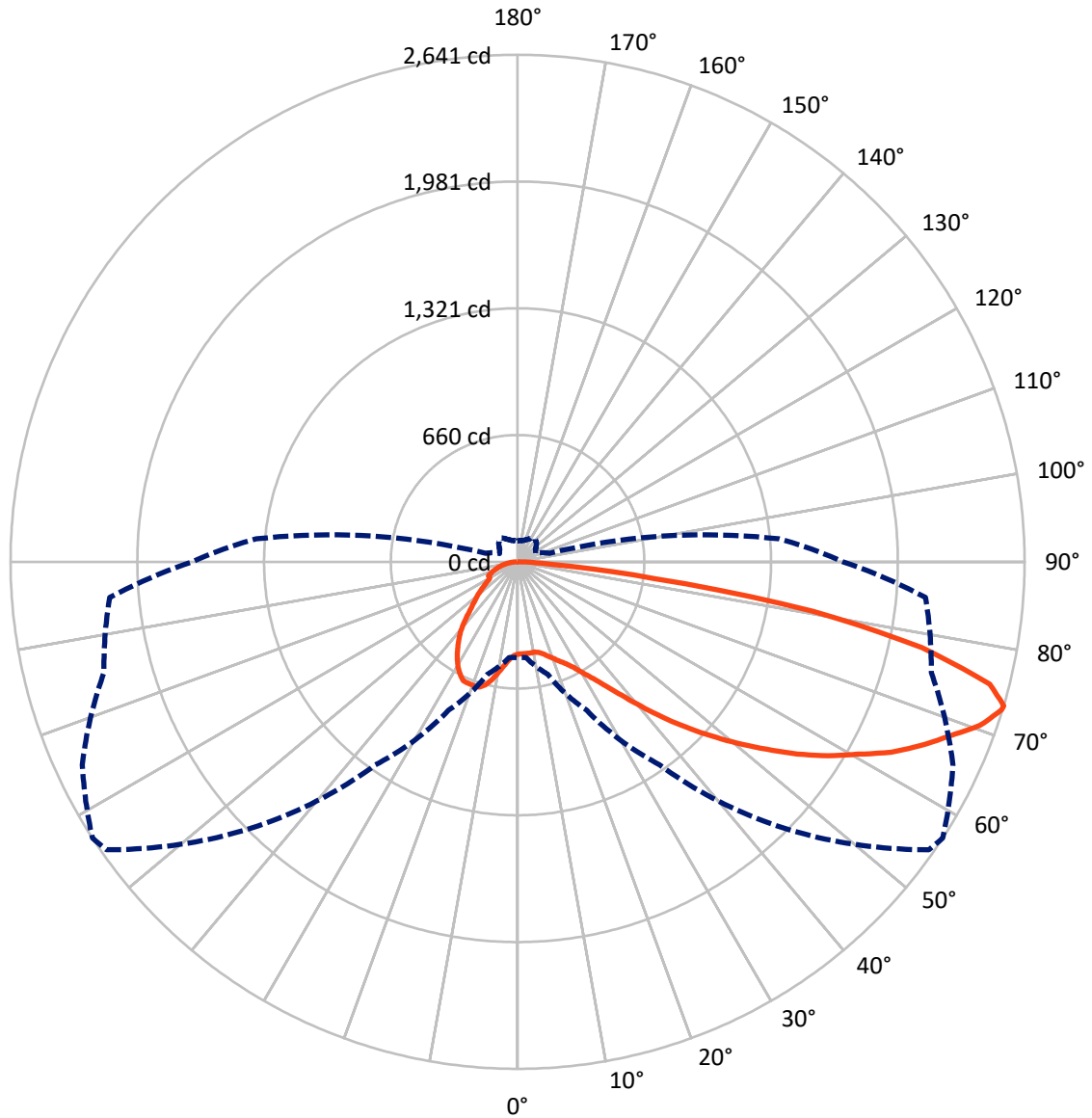
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.1 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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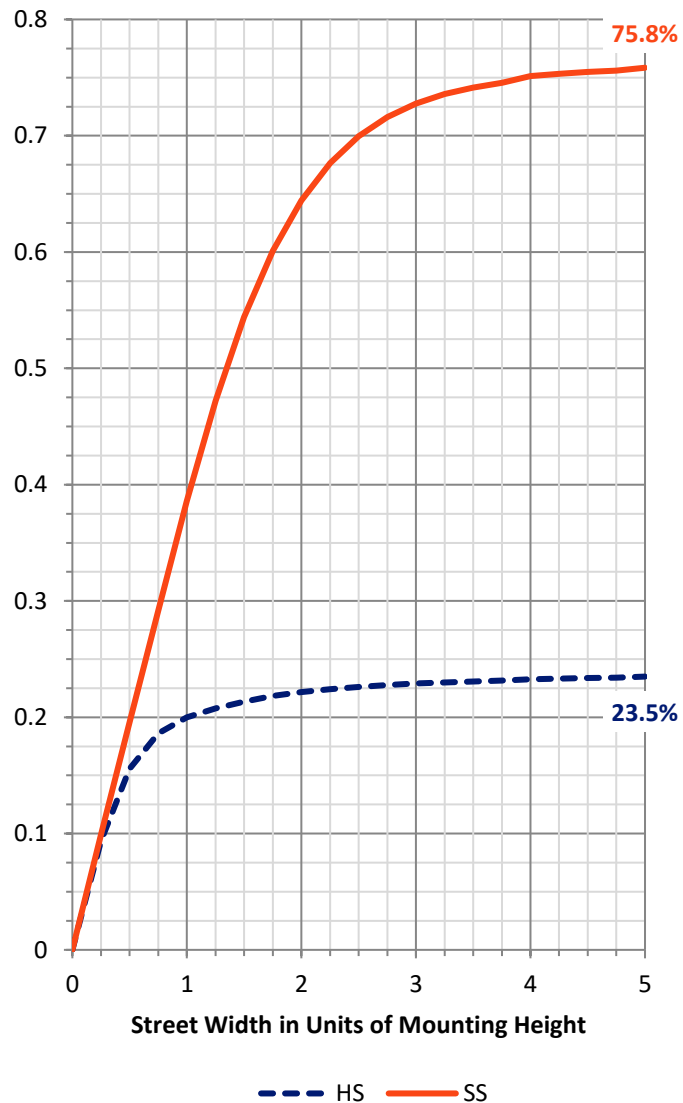
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1138.4	0.0	1138.4
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	3633.6	0.0	3633.6
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	4772.0	0.0	4772.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.0	1.0
10°-20°	157.9	3.3
20°-30°	291.4	6.1
30°-40°	450.0	9.4
40°-50°	677.4	14.2
50°-60°	991.4	20.8
60°-70°	1170.8	24.5
70°-80°	838.2	17.6
80°-90°	146.9	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°	4772.0	100.0
0°-180°	4772.0	100.0

**Coefficient of Utilization**

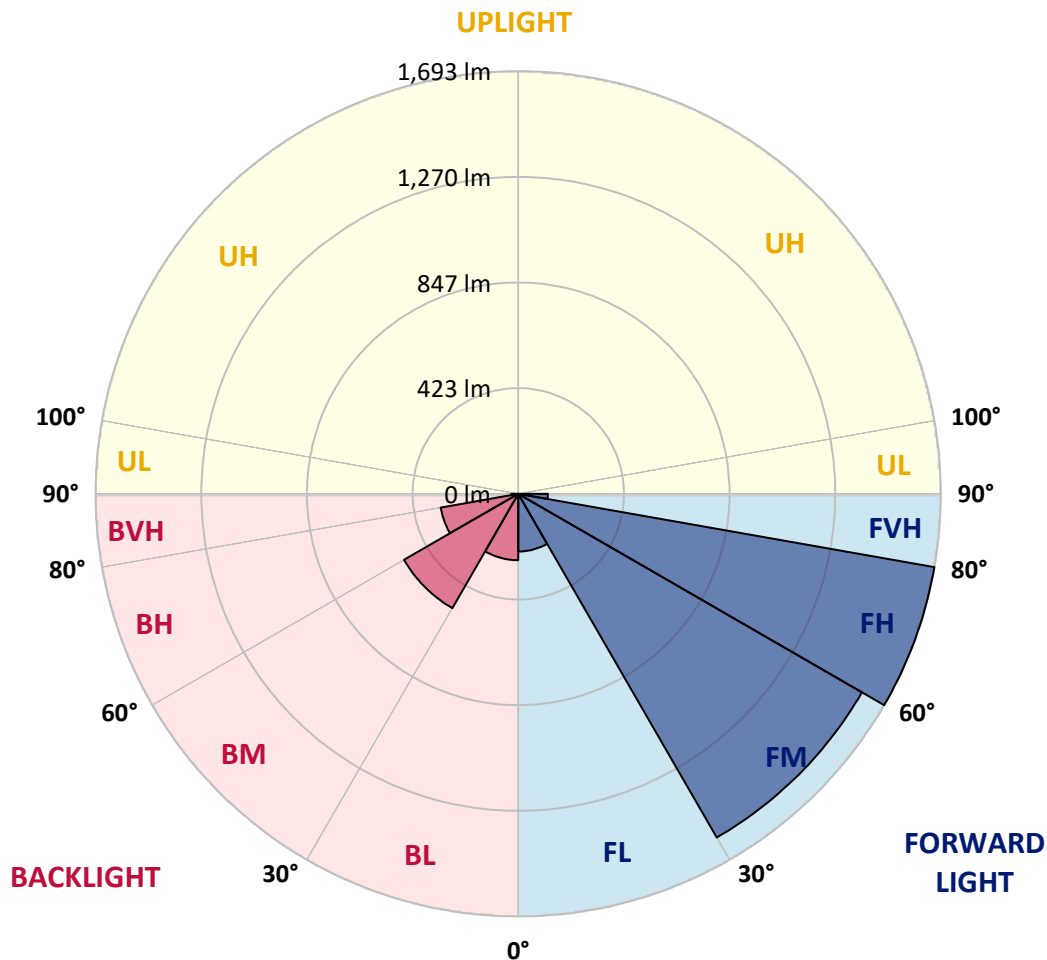


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	231.2	4.8			
FM (30°-60°)	1590.2	33.3			
FH (60°-80°)	1693.4	35.5			G1/1800
FVH (80°-90°)	118.8	2.5			G2/225
BL (0°-30°)	266.1	5.6	B1/500		
BM (30°-60°)	528.7	11.1	B1/1000		
BH (60°-80°)	315.7	6.6	B1/500		G1/500
BVH (80°-90°)	28.1	0.6			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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	474.9	477.3	476.1	477.3	480.8	478.4	478.4	479.6	480.8	479.6	482.0
5°	455.0	456.2	458.6	463.2	471.4	473.8	479.6	479.6	482.0	484.3	487.8
7.5°	422.3	424.6	429.3	434.0	448.0	462.1	477.3	479.6	487.8	493.6	496.0
10°	416.4	418.8	420.0	427.0	441.0	455.0	473.8	478.4	493.6	503.0	513.5
12.5°	410.6	412.9	416.4	425.8	443.3	458.6	478.4	483.1	501.8	520.6	533.4
15°	415.3	416.4	420.0	429.3	446.9	467.9	493.6	497.2	518.2	541.6	561.5
17.5°	427.0	428.1	427.0	435.2	451.5	476.1	511.2	517.0	542.8	566.2	586.1
20°	453.9	455.0	450.4	450.4	462.1	486.6	529.9	538.1	569.7	595.4	615.3
22.5°	512.4	510.0	498.3	483.1	483.1	503.0	551.0	562.7	602.4	623.5	641.0
25°	595.4	595.4	576.7	548.6	529.9	527.6	575.5	588.4	635.2	660.9	671.5
27.5°	696.0	697.2	666.8	629.3	593.1	575.5	610.6	623.5	676.1	703.0	706.5
30°	784.9	786.1	755.7	720.6	676.1	637.5	657.4	671.5	732.3	753.3	741.6
32.5°	873.8	875.0	853.9	806.0	759.2	711.2	717.1	725.3	787.3	807.2	788.4
35°	951.0	954.5	933.5	897.2	848.1	804.8	794.3	795.5	851.6	864.5	839.9
37.5°	1029.4	1029.4	1016.5	982.6	940.5	892.5	878.5	882.0	932.3	945.2	910.1
40°	1128.8	1133.5	1126.5	1084.4	1036.4	996.7	982.6	987.3	1042.3	1035.3	997.8
42.5°	1249.3	1259.9	1248.2	1202.5	1151.1	1106.6	1106.6	1106.6	1153.4	1154.6	1098.4
45°	1403.7	1403.7	1392.0	1352.3	1284.4	1240.0	1224.8	1228.3	1269.2	1273.9	1208.4
47.5°	1532.4	1544.1	1531.2	1502.0	1448.2	1406.1	1358.1	1352.3	1386.2	1386.2	1330.0
50°	1636.5	1657.6	1647.1	1659.9	1621.3	1600.3	1502.0	1485.6	1497.3	1509.0	1447.0
52.5°	1723.1	1739.5	1736.0	1773.4	1792.1	1803.8	1648.2	1622.5	1631.8	1630.7	1574.5
55°	1728.9	1734.8	1787.4	1871.7	1945.4	2000.3	1795.6	1767.5	1758.2	1753.5	1710.2
57.5°	1695.0	1698.5	1803.8	1903.2	2063.5	2126.7	1934.8	1906.7	1893.9	1877.5	1860.0
60°	1613.1	1630.7	1768.7	1922.0	2133.7	2224.9	2064.7	2035.4	2026.1	1991.0	2030.7
62.5°	1509.0	1517.2	1655.2	1883.4	2143.0	2267.0	2201.5	2184.0	2154.7	2104.4	2182.8
65°	1361.6	1360.5	1482.1	1769.9	2095.1	2288.1	2317.3	2308.0	2271.7	2185.2	2318.5
67.5°	1118.3	1145.2	1264.5	1568.7	1979.3	2309.2	2435.5	2423.8	2366.5	2257.7	2382.8
70°	852.8	869.1	1004.8	1266.9	1748.8	2251.8	2551.3	2554.8	2450.7	2272.9	2354.8
72.5°	543.9	572.0	679.6	923.0	1400.2	2038.9	2620.3	2636.7	2497.5	2251.8	2180.5
73°	498.3	500.7	605.9	853.9	1291.4	1962.9	2615.6	2641.4	2502.2	2230.8	2132.5
75°	297.1	310.0	373.2	567.3	921.8	1576.9	2489.3	2540.8	2477.6	2137.2	1869.3
77.5°	139.2	148.6	183.7	299.5	501.8	948.7	2092.7	2153.6	2195.7	1870.5	1424.8
80°	73.7	74.9	90.1	150.9	269.1	390.7	1458.7	1559.3	1619.0	1408.4	958.1
82.5°	62.0	62.0	70.2	97.1	172.0	152.1	601.3	715.9	877.3	693.7	376.7
85°	50.3	51.5	70.2	72.5	122.8	78.4	143.9	180.1	340.4	306.5	42.1
87.5°	16.4	18.7	39.8	51.5	65.5	30.4	36.3	39.8	39.8	58.5	14.0
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°	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8	480.8
2.5°	483.1	483.1	484.3	485.5	487.8	487.8	490.1	491.3	493.6	494.8	491.3
5°	487.8	490.1	492.5	499.5	507.7	514.7	521.7	527.6	533.4	536.9	535.8
7.5°	500.7	504.2	513.5	526.4	542.8	553.3	563.8	574.4	579.0	581.4	581.4
10°	518.2	525.2	542.8	563.8	582.6	598.9	607.1	614.1	616.5	618.8	616.5
12.5°	542.8	552.1	579.0	605.9	627.0	635.2	634.0	624.7	611.8	609.5	607.1
15°	574.4	586.1	616.5	648.1	664.4	653.9	627.0	617.6	615.3	622.3	620.0
17.5°	601.3	615.3	652.7	685.5	682.0	645.7	637.5	642.2	639.9	641.0	641.0
20°	627.0	646.9	686.7	708.9	678.5	655.1	648.1	642.2	635.2	637.5	635.2
22.5°	659.8	673.8	719.4	720.6	673.8	655.1	639.9	628.2	625.8	627.0	628.2
25°	685.5	707.7	747.5	712.4	673.8	636.4	615.3	613.0	614.1	621.2	618.8
27.5°	720.6	742.8	769.7	707.7	645.7	605.9	597.8	596.6	588.4	590.7	590.7
30°	753.3	780.2	781.4	707.7	610.6	580.2	568.5	547.5	529.9	533.4	532.3
32.5°	797.8	821.2	783.8	679.6	570.9	546.3	514.7	482.0	473.8	478.4	479.6
35°	849.3	868.0	786.1	632.9	531.1	498.3	441.0	422.3	421.1	424.6	428.1
37.5°	917.1	927.6	803.6	579.0	492.5	423.5	379.0	374.3	363.8	356.8	358.0
40°	1000.2	987.3	837.6	531.1	446.9	355.6	336.9	324.0	304.1	284.3	287.8
42.5°	1092.6	1056.3	848.1	492.5	384.9	313.5	296.0	276.1	251.5	230.4	229.3
45°	1192.0	1133.5	838.7	462.1	322.9	281.9	263.2	239.8	210.6	193.0	193.0
47.5°	1310.2	1207.2	809.5	437.5	279.6	253.8	230.4	207.1	187.2	170.8	170.8
50°	1440.0	1292.6	788.4	394.2	249.2	226.9	203.5	184.8	169.6	156.8	156.8
52.5°	1576.9	1373.3	770.9	331.0	222.3	202.4	186.0	170.8	157.9	141.5	139.2
55°	1716.1	1450.5	779.1	270.2	197.7	184.8	174.3	159.1	154.4	150.9	148.6
57.5°	1861.1	1534.8	799.0	221.1	176.6	175.5	170.8	181.3	191.8	184.8	181.3
60°	1974.6	1600.3	801.3	186.0	163.8	184.8	208.2	211.7	183.7	167.3	166.1
62.5°	2064.7	1662.3	746.3	161.4	167.3	217.6	222.3	187.2	159.1	152.1	152.1
65°	2111.5	1684.5	600.1	147.4	174.3	208.2	201.2	168.4	148.6	147.4	147.4
67.5°	2088.1	1666.9	420.0	132.2	154.4	180.1	180.1	154.4	136.9	142.7	140.4
70°	1975.8	1580.4	277.2	119.3	135.7	162.6	167.3	143.9	127.5	131.0	127.5
72.5°	1741.8	1426.0	182.5	105.3	117.0	143.9	155.6	132.2	117.0	115.8	112.3
73°	1696.2	1367.5	172.0	102.9	113.5	139.2	152.1	129.8	114.6	111.1	108.8
75°	1438.8	1140.5	129.8	92.4	100.6	125.2	141.5	121.7	105.3	100.6	98.3
77.5°	1048.1	790.8	97.1	78.4	84.2	108.8	125.2	111.1	93.6	87.7	86.6
80°	653.9	430.5	72.5	63.2	66.7	91.2	110.0	99.4	80.7	73.7	72.5
82.5°	256.2	140.4	50.3	46.8	49.1	69.0	92.4	86.6	67.8	62.0	58.5
85°	42.1	48.0	32.8	31.6	31.6	49.1	70.2	66.7	45.6	39.8	35.1
87.5°	11.7	22.2	12.9	11.7	11.7	21.1	38.6	30.4	18.7	15.2	14.0
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)