

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: P450473

Luminaire Tested: **GALN-SA1B-730-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450473  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1B-730-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5200 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

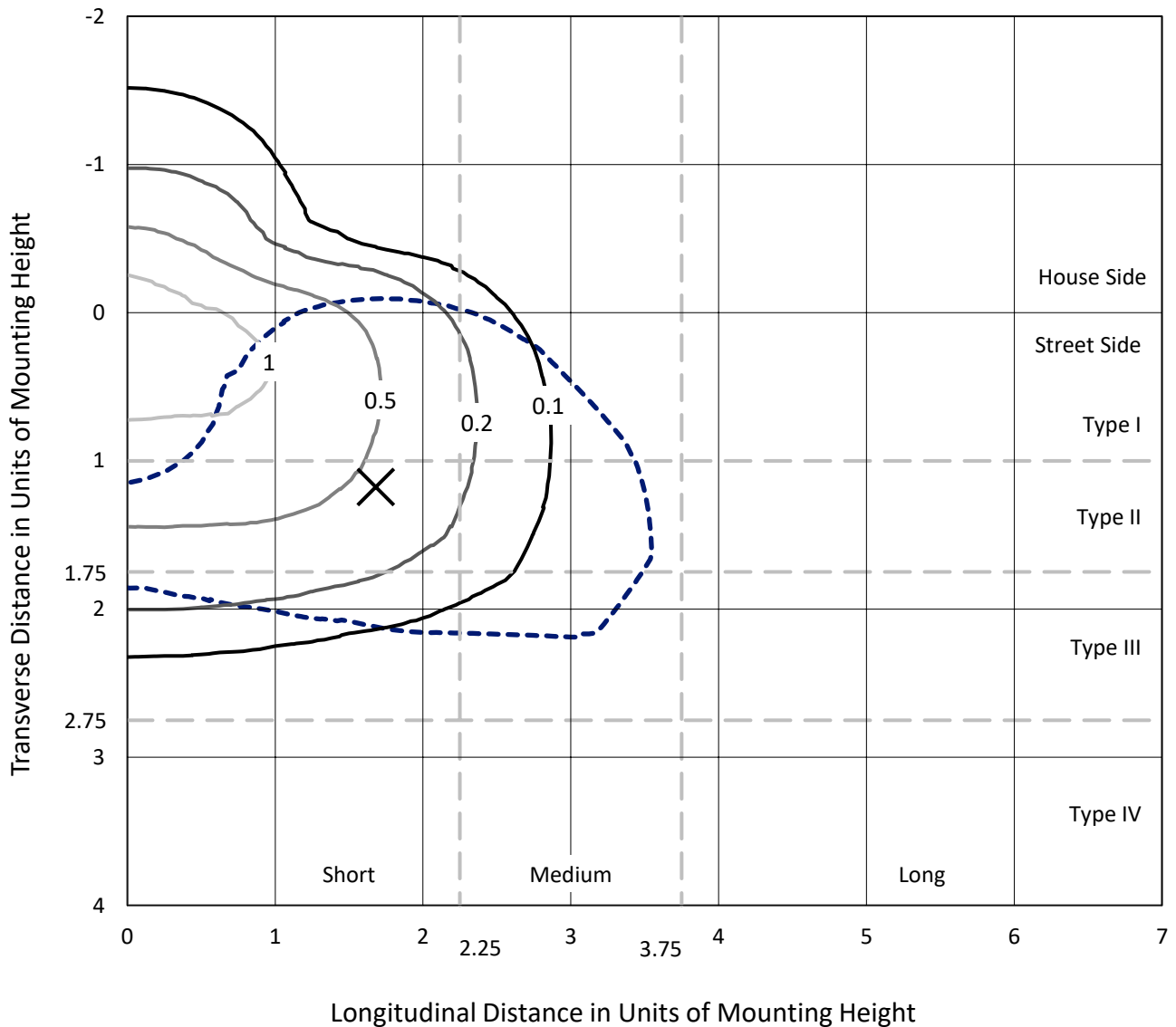
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

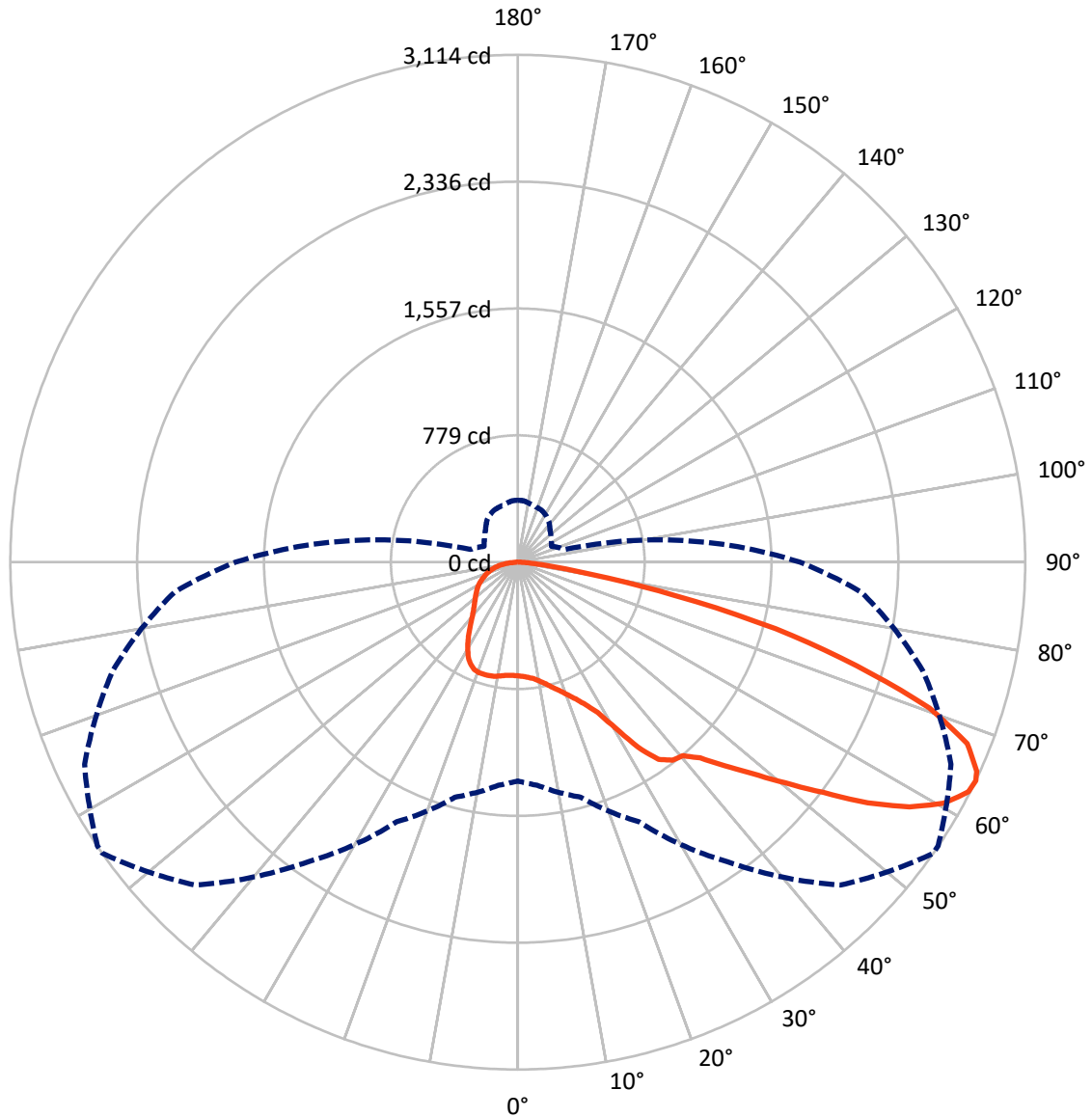
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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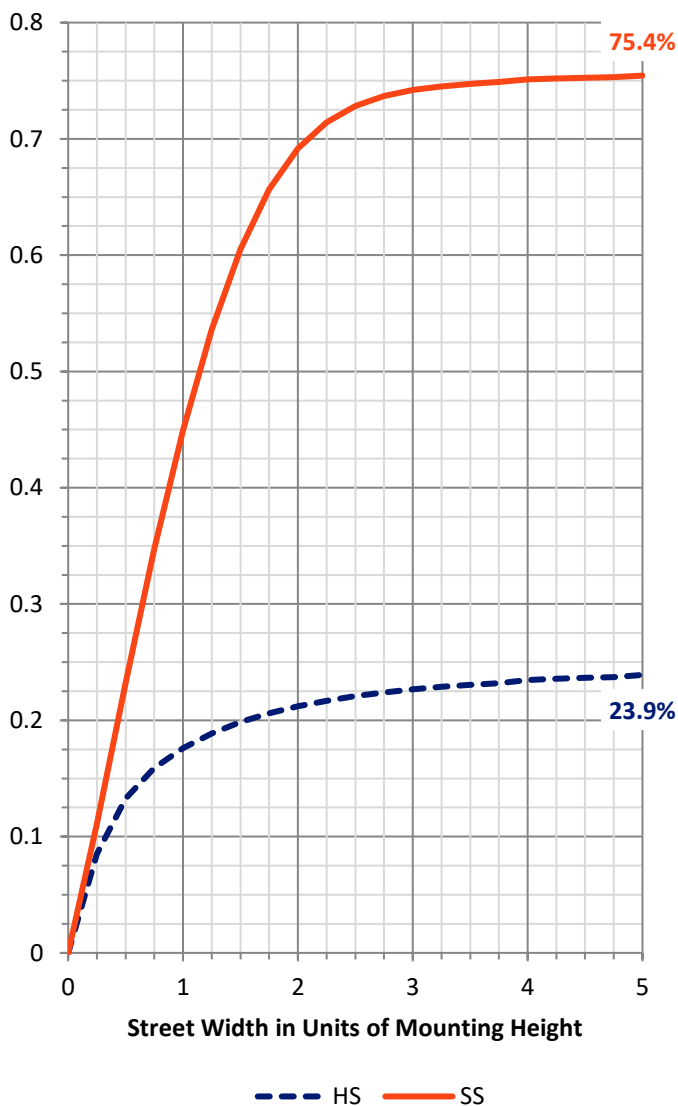
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1263.2	0.0	1263.2
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	3936.8	0.0	3936.8
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	5200.0	0.0	5200.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.9	1.3
10°-20°	214.1	4.1
20°-30°	381.2	7.3
30°-40°	586.5	11.3
40°-50°	831.5	16.0
50°-60°	1203.6	23.1
60°-70°	1245.6	24.0
70°-80°	583.3	11.2
80°-90°	86.3	1.7
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°	5200.0	100.0
0°-180°	5200.0	100.0

**Coefficient of Utilization**



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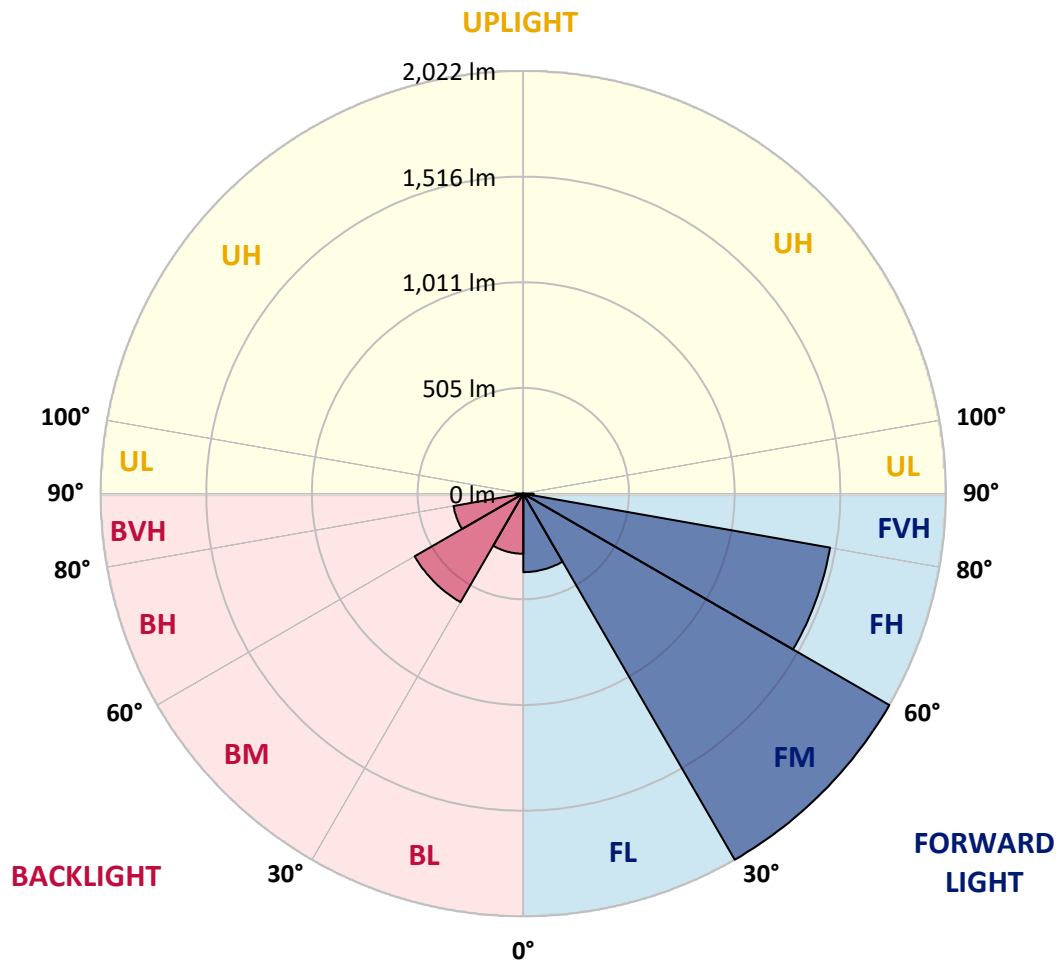
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	375.5	7.2			
FM (30°-60°)	2021.9	38.9			
FH (60°-80°)	1490.0	28.7			G1/1800
FVH (80°-90°)	49.4	1.0			G1/100
BL (0°-30°)	287.7	5.5	B1/500		
BM (30°-60°)	599.7	11.5	B1/1000		
BH (60°-80°)	338.9	6.5	B1/500		G1/500
BVH (80°-90°)	36.9	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	697.7	697.7	697.7	697.7	697.7	697.7	697.7	697.7	697.7	697.7	697.7
2.5°	705.5	705.2	706.1	705.2	705.8	703.8	702.9	703.5	702.6	701.2	698.6
5°	714.2	713.9	714.2	713.0	713.6	712.5	710.4	711.0	709.6	706.4	702.6
7.5°	729.0	727.8	727.8	727.5	726.4	724.6	723.2	722.6	721.2	717.1	711.3
10°	748.1	748.1	748.4	746.1	747.5	744.3	742.9	742.6	737.7	732.5	724.3
12.5°	773.3	774.8	773.9	772.8	772.2	771.0	766.1	767.2	761.7	752.8	742.9
15°	804.6	807.0	805.5	804.9	803.5	799.1	797.1	796.2	789.0	775.9	762.9
17.5°	846.1	843.2	842.0	840.6	834.5	831.3	827.8	827.2	820.9	805.5	785.2
20°	882.3	886.4	884.1	882.6	876.5	870.4	867.8	867.0	861.5	844.6	812.2
22.5°	925.5	926.4	927.2	923.8	920.9	916.2	911.6	910.1	908.1	890.7	851.0
25°	971.6	975.1	972.2	968.7	965.2	964.9	969.3	968.7	967.8	951.0	902.6
27.5°	1046.7	1049.9	1050.7	1047.0	1033.6	1034.8	1044.6	1047.8	1061.2	1033.3	969.0
30°	1089.0	1092.2	1099.4	1113.6	1134.8	1153.3	1177.1	1184.4	1197.1	1144.6	1047.8
32.5°	1115.1	1116.2	1129.3	1155.7	1219.1	1288.4	1353.0	1355.7	1363.8	1290.1	1120.0
35°	1156.2	1157.1	1167.5	1196.5	1271.0	1386.4	1486.4	1489.6	1482.9	1335.4	1153.6
37.5°	1207.0	1209.3	1215.9	1240.0	1329.0	1468.4	1541.7	1539.4	1480.3	1371.3	1213.0
40°	1280.9	1280.9	1273.0	1305.5	1390.1	1515.4	1561.2	1557.1	1541.5	1475.4	1303.5
42.5°	1346.1	1344.9	1363.5	1385.5	1466.7	1587.8	1642.6	1649.3	1675.1	1606.1	1406.4
45°	1431.0	1436.2	1446.7	1486.7	1596.8	1711.6	1782.3	1788.7	1825.2	1760.0	1526.7
47.5°	1516.8	1518.6	1551.3	1604.6	1758.0	1879.4	1937.4	1947.8	1981.2	1940.0	1656.2
50°	1577.7	1594.2	1646.7	1730.7	1924.1	2084.1	2129.3	2141.7	2200.6	2135.9	1807.3
52.5°	1642.0	1658.3	1722.3	1850.4	2114.8	2293.3	2349.0	2357.4	2418.6	2334.2	1961.7
55°	1697.1	1712.2	1784.9	1956.5	2266.7	2507.0	2607.8	2598.0	2627.3	2487.0	2080.9
57.5°	1706.1	1718.3	1809.9	2024.4	2380.9	2690.2	2834.8	2840.6	2806.7	2601.2	2179.1
60°	1636.5	1661.5	1766.7	2017.1	2432.2	2817.7	3004.1	3008.1	2911.9	2659.7	2218.3
62.5°	1513.3	1510.7	1638.0	1900.6	2360.3	2846.7	3103.8	3099.4	2953.1	2631.6	2180.3
64°	1343.2	1374.5	1493.3	1757.4	2244.4	2802.0	3114.2	3111.9	2933.3	2573.1	2115.7
65°	1239.4	1237.7	1355.1	1640.3	2129.0	2734.8	3095.7	3092.5	2892.2	2520.6	2065.5
67.5°	894.8	898.8	1014.8	1265.8	1730.7	2471.9	2974.8	2962.9	2729.9	2346.7	1874.8
70°	542.0	544.3	635.4	839.7	1242.3	1998.3	2681.5	2682.0	2481.5	2087.0	1595.7
72.5°	285.5	291.6	328.1	476.8	754.5	1402.0	2175.4	2227.0	2130.4	1781.2	1260.6
75°	158.8	159.7	185.5	235.1	384.9	784.6	1635.1	1649.9	1686.7	1433.6	932.2
77.5°	121.2	122.9	131.0	151.9	209.6	363.8	989.6	1063.8	1188.7	1010.7	531.9
80°	98.3	100.0	107.0	119.4	139.4	172.5	459.7	499.7	636.2	448.7	207.5
82.5°	76.5	75.4	84.3	92.5	101.4	102.0	188.7	208.7	259.1	193.0	89.9
85°	56.8	56.8	64.1	62.3	65.5	59.7	83.2	91.9	103.8	82.0	41.7
87.5°	22.6	24.9	42.0	37.7	29.3	23.5	30.7	32.5	35.9	32.2	17.4
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°	697.7	697.7	697.7	697.7	697.7	697.7	697.7	697.7	697.7	697.7	697.7
2.5°	698.8	699.7	697.7	696.2	695.7	694.8	693.9	694.2	695.4	696.5	696.2
5°	702.3	702.6	699.1	697.4	696.2	695.1	695.1	695.9	698.3	700.0	700.0
7.5°	711.0	711.0	706.1	702.9	701.2	699.1	698.6	698.8	700.6	702.9	703.2
10°	724.6	723.5	717.1	712.2	709.0	704.1	699.7	697.4	698.3	699.7	699.7
12.5°	741.2	738.0	729.9	723.2	715.4	706.1	697.1	692.5	692.2	693.6	693.0
15°	758.8	755.4	744.1	731.9	718.3	704.6	693.9	687.2	682.0	680.6	683.8
17.5°	779.4	772.2	756.5	739.7	719.4	701.7	684.9	671.3	662.0	659.4	660.3
20°	804.4	794.8	773.6	747.2	718.6	691.3	665.2	647.0	631.9	627.2	627.8
22.5°	838.8	822.3	791.3	751.0	711.3	671.6	635.4	611.6	593.3	586.1	590.4
25°	878.0	860.0	808.1	750.1	692.5	640.0	600.0	569.0	552.5	541.7	544.1
27.5°	931.9	900.0	826.1	742.3	665.5	601.5	555.1	525.8	510.7	505.2	507.8
30°	1000.9	951.9	845.5	721.2	622.9	552.8	509.9	490.7	481.7	474.8	477.1
32.5°	1050.7	988.4	849.9	685.5	576.8	508.4	479.1	464.9	455.1	448.4	449.9
35°	1086.4	1019.4	847.8	641.7	528.7	471.9	454.8	443.2	427.2	412.8	410.1
37.5°	1134.2	1058.3	833.0	593.9	481.2	447.2	435.1	413.6	390.7	371.3	370.4
40°	1207.5	1103.8	801.5	537.7	440.6	429.0	414.2	386.4	361.7	346.1	344.9
42.5°	1283.2	1145.8	758.6	478.6	407.2	409.9	391.9	364.3	349.3	339.1	338.0
45°	1375.7	1191.3	712.2	427.2	382.6	391.9	372.5	356.5	347.5	340.9	339.1
47.5°	1475.7	1238.0	660.0	381.2	361.7	375.4	364.3	357.1	352.2	347.5	345.5
50°	1583.5	1290.1	611.0	344.1	342.9	358.3	363.5	360.9	358.0	356.5	354.8
52.5°	1701.7	1343.5	569.9	318.0	326.4	346.1	363.8	365.8	365.8	364.9	363.8
55°	1781.7	1380.6	528.1	296.8	309.6	336.2	363.2	371.0	373.9	372.8	371.6
57.5°	1840.9	1400.9	475.7	278.6	295.4	326.7	360.0	371.6	374.5	375.9	375.4
60°	1853.0	1382.0	407.0	259.4	280.0	312.8	348.4	362.9	366.7	375.7	376.5
62.5°	1798.3	1324.1	338.6	240.6	261.2	291.6	332.8	353.0	360.6	374.5	375.9
64°	1731.0	1259.1	300.6	228.7	249.0	279.7	324.9	350.4	360.3	378.8	380.0
65°	1681.7	1211.9	276.8	221.2	241.2	271.9	320.6	351.3	362.9	385.5	387.2
67.5°	1500.3	1049.3	229.0	203.5	222.6	258.6	321.5	358.6	362.3	388.1	387.8
70°	1241.5	835.4	191.9	187.2	204.6	247.8	318.0	347.0	347.2	364.3	360.3
72.5°	929.6	617.4	166.4	170.4	184.6	222.3	300.3	331.3	326.4	328.7	324.6
75°	638.6	408.4	143.2	152.5	163.8	196.5	275.4	300.9	293.0	290.1	287.2
77.5°	340.9	225.8	119.1	134.8	142.3	169.9	240.3	264.9	256.8	245.5	241.7
80°	138.0	106.4	95.9	111.6	115.9	136.8	200.0	215.4	209.3	189.6	183.2
82.5°	69.3	63.8	75.4	87.8	88.1	97.7	148.7	163.2	149.6	125.5	120.0
85°	36.2	37.4	51.9	61.7	54.5	52.8	89.3	98.8	90.7	78.8	71.0
87.5°	13.0	15.1	27.2	27.0	19.1	10.1	19.7	9.6	5.2	3.2	4.1
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)