

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: P526555

Luminaire Tested: **GALN-SA1C-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526555  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-730-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3940 lumens  
Efficiency: N/A  
Efficacy: 69.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

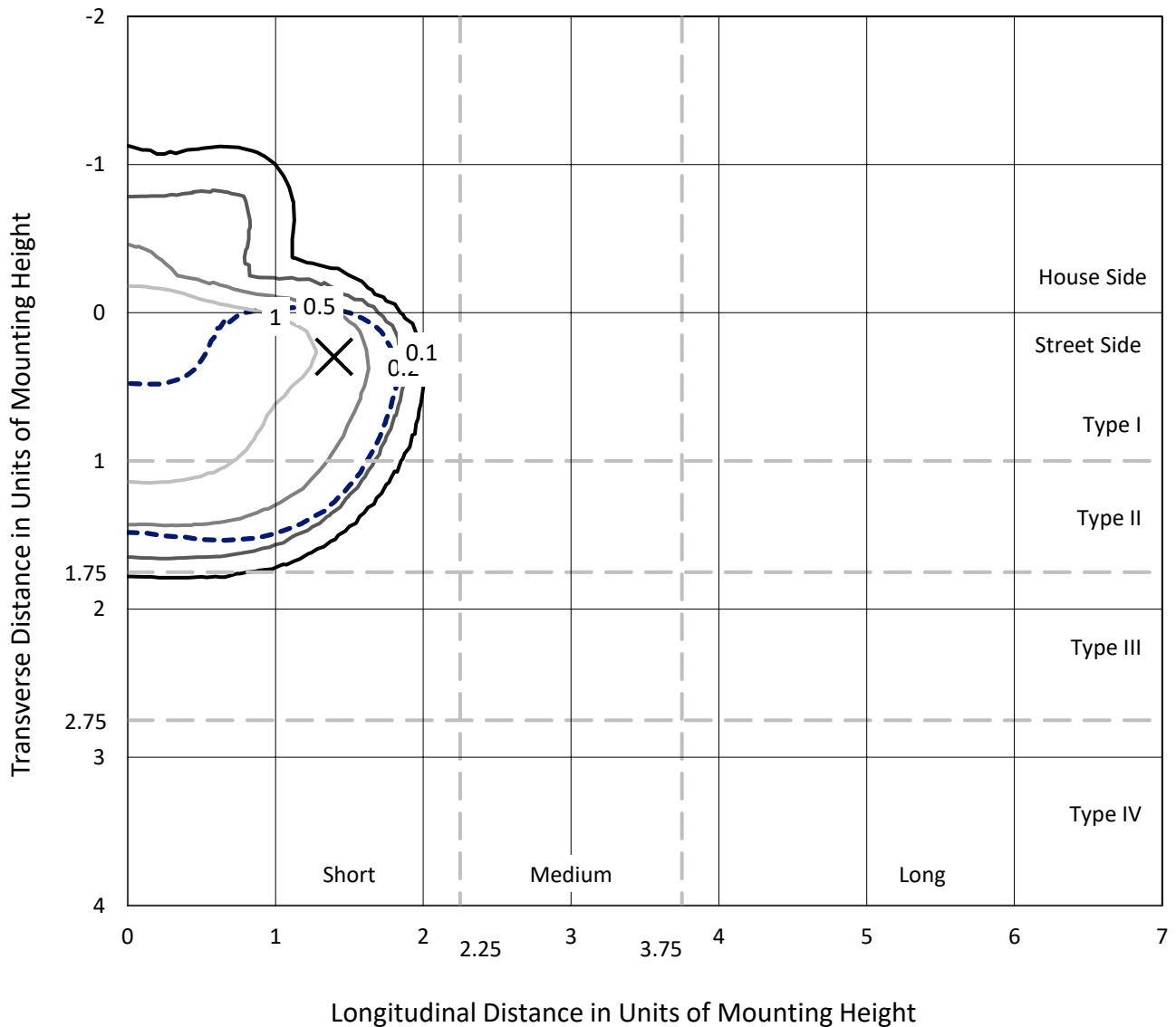
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

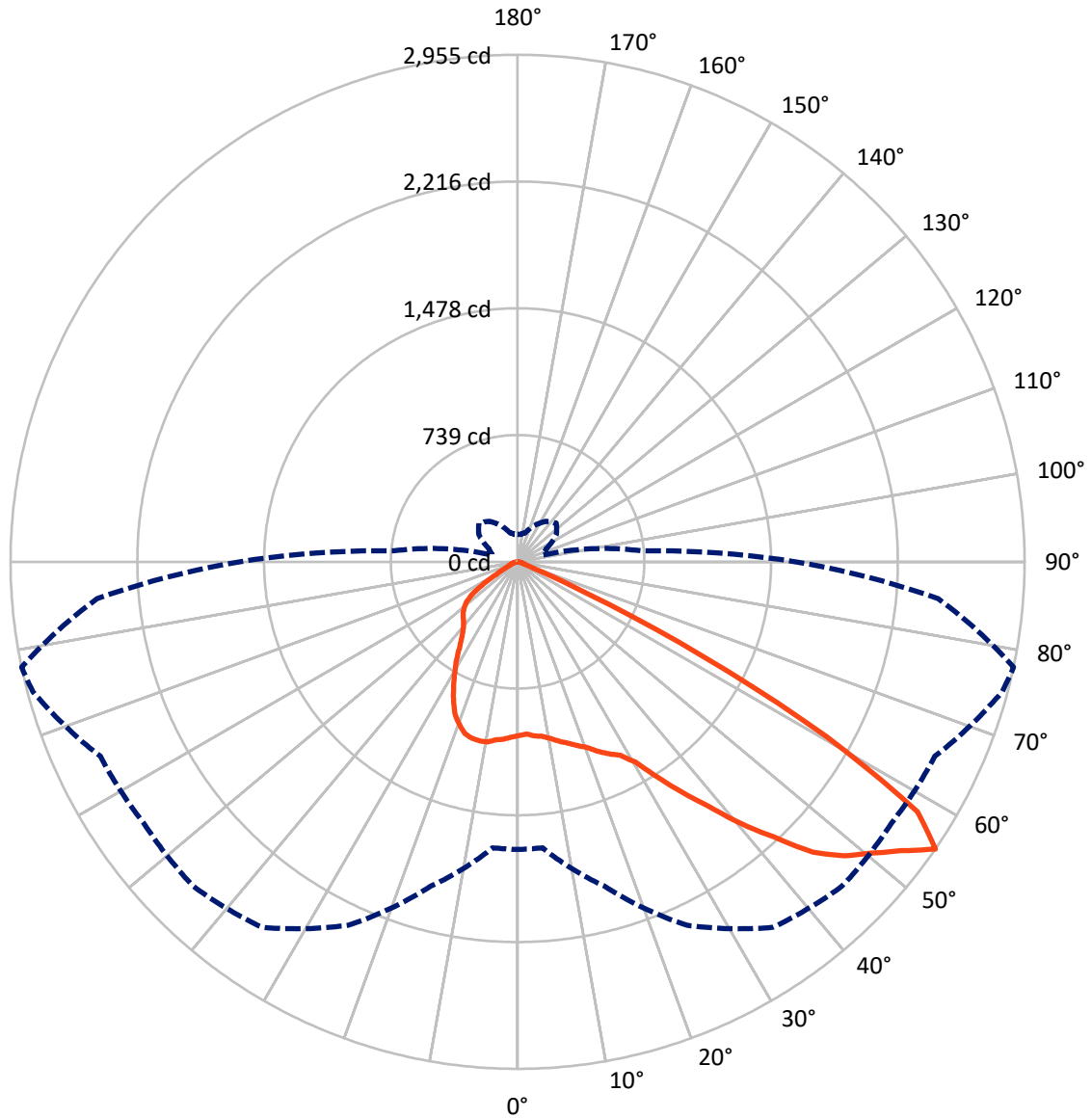
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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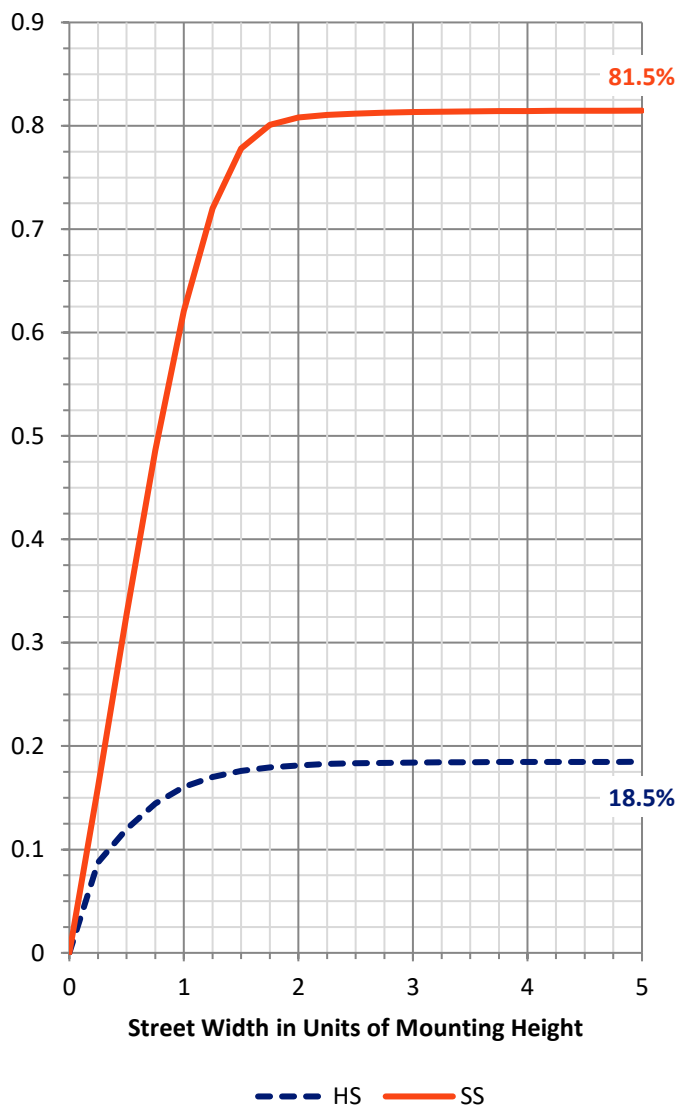
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	731.8	0.0	731.8
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	3208.2	0.0	3208.2
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	3940.0	0.0	3940.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.3	2.3
10°-20°	239.0	6.1
20°-30°	419.0	10.6
30°-40°	690.9	17.5
40°-50°	1005.3	25.5
50°-60°	1139.1	28.9
60°-70°	325.7	8.3
70°-80°	25.3	0.6
80°-90°	5.3	0.1
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°	3940.0	100.0
0°-180°	3940.0	100.0

**Coefficient of Utilization**

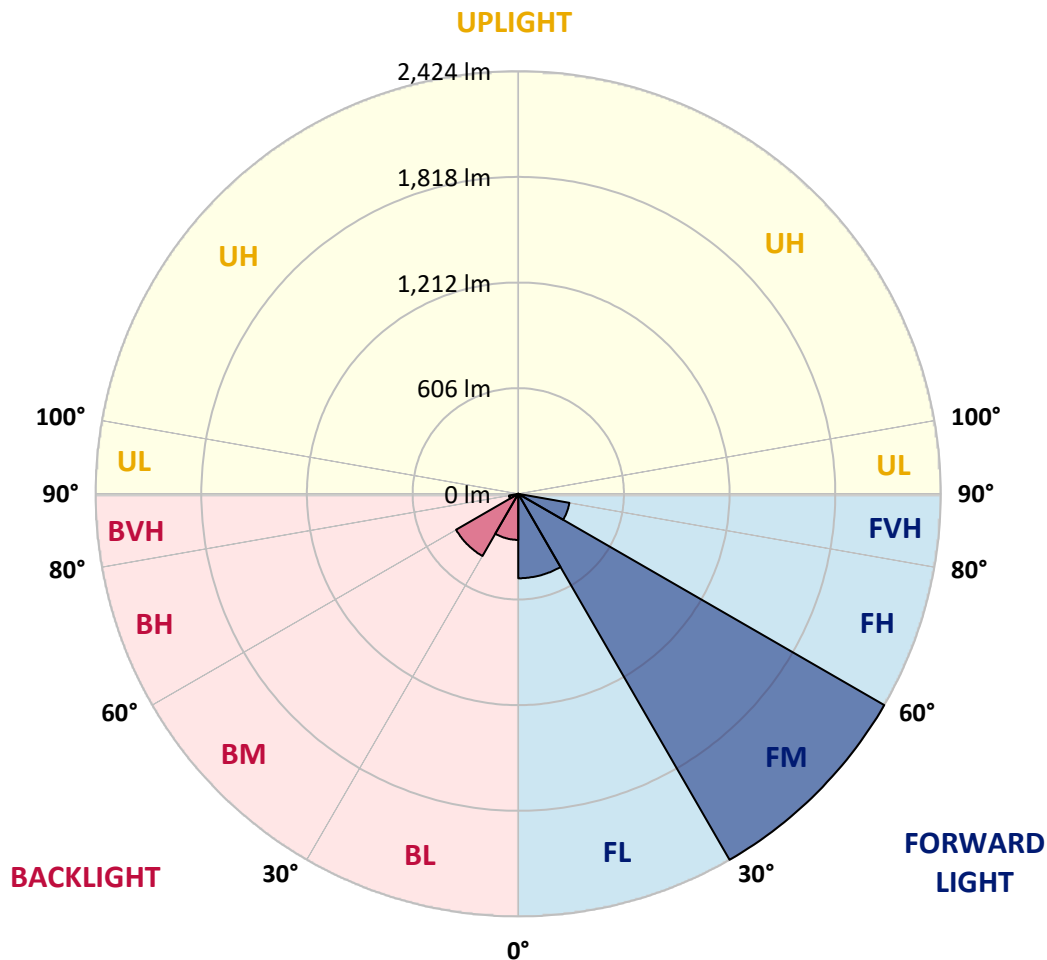


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	484.3	12.3			
FM (30°-60°)	2423.7	61.5			
FH (60°-80°)	297.6	7.6			G0/660
FVH (80°-90°)	2.6	0.1			G0/10
BL (0°-30°)	264.0	6.7	B1/500		
BM (30°-60°)	411.6	10.4	B1/1000		
BH (60°-80°)	53.4	1.4	B0/110		G0/110
BVH (80°-90°)	2.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	952.4	961.6	963.0	974.2	973.5	992.5	998.2	998.9	1011.6	1005.2	1021.4
5°	925.6	920.7	918.6	938.3	943.9	960.8	974.9	983.4	1009.5	1018.6	1035.5
7.5°	901.7	901.7	903.1	920.7	918.6	940.4	955.2	981.3	1019.3	1027.1	1047.5
10°	878.4	870.0	880.5	898.9	914.4	924.2	955.2	979.9	1024.2	1046.8	1075.0
12.5°	866.5	870.7	872.1	885.5	902.4	932.0	948.9	989.7	1059.5	1072.9	1103.1
15°	941.8	933.4	912.9	901.0	915.1	929.1	971.4	1013.0	1077.8	1096.8	1130.6
17.5°	1029.2	1022.1	1005.2	972.8	941.1	967.2	1000.3	1038.3	1097.5	1125.7	1175.7
20°	1143.3	1132.0	1115.1	1051.7	1024.2	996.1	1031.3	1076.4	1129.9	1155.3	1206.7
22.5°	1279.3	1279.3	1241.2	1164.4	1107.4	1080.6	1095.4	1121.5	1165.8	1200.4	1251.1
25°	1420.8	1416.6	1382.1	1302.5	1206.0	1174.3	1191.2	1209.5	1221.5	1240.5	1274.3
27.5°	1582.9	1558.2	1514.5	1426.5	1341.2	1280.0	1298.3	1282.1	1267.3	1277.1	1325.7
30°	1692.8	1708.3	1652.6	1568.1	1487.8	1419.4	1423.0	1408.9	1341.2	1355.3	1384.2
32.5°	1806.9	1816.7	1785.7	1739.2	1658.9	1579.3	1550.5	1538.5	1487.8	1494.1	1465.9
35°	1902.0	1921.0	1893.5	1873.1	1849.8	1785.7	1706.1	1744.9	1663.2	1647.7	1574.4
37.5°	1989.3	1983.7	2016.1	1995.0	1990.0	1944.9	1857.6	1865.3	1810.4	1806.9	1722.3
40°	2067.5	2068.9	2113.3	2123.2	2103.4	2023.1	1896.3	1957.6	2002.0	2006.2	1897.7
42.5°	2132.3	2151.3	2189.4	2269.0	2239.4	2105.6	1936.5	2003.4	2168.2	2194.3	2064.0
45°	2188.7	2227.4	2274.6	2345.8	2328.9	2222.5	2036.5	2097.8	2345.8	2414.1	2220.4
47.5°	2192.2	2242.9	2294.3	2400.0	2421.1	2285.2	2140.1	2247.1	2486.7	2560.6	2334.5
50°	2178.1	2204.9	2307.7	2422.5	2470.5	2387.3	2285.2	2372.5	2623.3	2669.8	2392.3
52.5°	2011.2	2031.6	2238.0	2443.7	2559.2	2502.9	2477.5	2547.2	2762.8	2797.3	2446.5
55°	1676.6	1673.0	1956.9	2337.3	2600.1	2674.0	2658.5	2683.2	2924.1	2955.1	2459.9
57.5°	1146.8	1210.9	1456.1	1946.4	2350.0	2633.9	2650.1	2609.2	2736.0	2748.0	2144.3
60°	618.5	645.3	842.5	1299.0	1789.3	2146.4	2188.7	2114.7	2104.8	2071.0	1530.7
62.5°	245.8	259.2	371.2	643.1	974.9	1304.6	1395.5	1365.2	1300.4	1211.6	792.5
65°	116.9	125.4	184.6	300.8	432.5	543.8	634.7	662.9	488.9	440.3	261.3
67.5°	79.6	85.9	134.5	171.9	154.3	161.3	209.9	195.1	114.8	97.9	72.6
70°	60.6	64.8	107.8	116.9	69.0	48.6	54.2	50.7	47.2	47.9	47.2
72.5°	43.0	46.5	78.9	69.0	30.3	22.5	28.9	34.5	34.5	34.5	33.8
75°	26.1	29.6	45.8	26.8	12.0	12.0	18.3	23.2	24.7	25.4	24.0
77.5°	13.4	16.9	15.5	7.7	7.7	9.2	13.4	16.2	17.6	17.6	16.9
80°	2.8	2.8	2.8	4.2	7.7	9.9	13.4	14.8	16.9	16.9	15.5
82.5°	0.0	0.7	2.1	4.2	7.0	9.2	12.7	14.8	16.9	17.6	16.2
85°	0.0	0.7	1.4	2.8	4.9	5.6	4.9	4.2	4.2	4.2	4.2
87.5°	0.0	0.0	0.7	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4
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°	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0	1013.0
2.5°	1022.8	1025.0	1021.4	1020.7	1017.9	1026.4	1005.9	1001.0	1013.7	1001.7	1004.5
5°	1036.2	1041.2	1034.8	1024.2	1008.7	984.8	964.4	937.6	924.9	915.8	914.4
7.5°	1046.1	1049.6	1043.3	1009.5	963.0	902.4	857.3	824.2	798.1	790.4	777.7
10°	1086.2	1086.9	1055.2	980.6	889.7	810.1	741.1	690.3	664.3	648.1	641.0
12.5°	1113.0	1111.6	1047.5	923.5	802.4	696.7	617.8	556.5	532.6	524.8	519.9
15°	1146.8	1139.1	1029.2	865.0	689.6	575.5	504.4	462.1	460.0	455.1	460.0
17.5°	1173.6	1151.7	1002.4	758.7	581.9	474.1	427.6	430.4	436.0	441.0	441.7
20°	1217.3	1172.2	941.1	665.7	481.8	406.5	405.8	418.4	432.5	438.2	443.8
22.5°	1250.4	1180.6	875.6	566.4	400.1	379.0	391.0	410.0	420.5	426.2	434.6
25°	1262.3	1157.4	788.3	467.0	360.7	366.3	384.6	397.3	410.7	417.0	413.5
27.5°	1274.3	1145.4	684.0	384.6	339.5	357.9	373.4	386.0	390.3	398.7	404.3
30°	1303.2	1103.8	590.3	332.5	329.0	352.2	363.5	367.7	379.0	383.9	383.9
32.5°	1326.4	1087.6	491.0	307.8	327.6	355.0	356.4	356.4	357.9	354.3	352.9
35°	1374.4	1032.0	402.2	293.0	326.9	355.7	359.3	347.3	314.9	302.2	298.7
37.5°	1433.5	996.1	336.7	289.5	331.8	364.2	369.8	324.7	282.5	262.0	258.5
40°	1505.4	970.7	293.7	288.1	343.1	383.9	367.0	307.1	252.2	222.6	221.2
42.5°	1589.2	947.5	264.9	287.4	357.1	404.3	364.2	292.3	221.2	201.5	204.3
45°	1656.1	934.8	245.1	282.5	362.1	416.3	366.3	266.3	208.5	195.8	197.2
47.5°	1708.3	908.0	228.9	274.0	361.4	420.5	347.3	255.7	202.2	205.7	209.2
50°	1709.7	872.1	208.5	255.7	350.8	412.8	325.4	245.8	200.8	215.6	222.6
52.5°	1690.6	821.4	186.7	229.6	326.2	386.0	305.7	241.6	194.4	193.0	201.5
55°	1623.0	726.3	150.0	186.0	275.4	318.4	288.1	233.9	175.4	159.2	160.6
57.5°	1311.7	520.6	110.6	133.1	195.1	233.2	259.9	230.3	157.8	135.3	136.0
60°	812.2	295.2	81.0	90.9	120.5	141.6	210.6	214.1	140.9	114.1	112.7
62.5°	417.0	145.8	62.7	64.1	74.0	83.1	144.4	179.6	127.5	108.5	108.5
65°	139.5	71.9	54.9	49.3	49.3	51.4	87.3	124.7	107.8	90.9	90.9
67.5°	59.9	53.5	47.9	43.0	39.4	37.3	49.3	72.6	80.3	69.0	66.2
70°	46.5	45.1	41.6	35.9	31.0	28.2	28.9	37.3	45.8	44.4	43.0
72.5°	34.5	34.5	33.1	28.2	24.0	20.4	19.0	19.7	21.8	22.5	23.2
75°	24.0	24.7	24.7	21.8	17.6	14.8	12.7	10.6	8.5	7.0	6.3
77.5°	16.2	16.9	18.3	16.2	13.4	9.9	7.7	5.6	3.5	1.4	1.4
80°	14.1	16.2	17.6	16.2	14.1	10.6	7.7	4.2	2.1	0.0	0.0
82.5°	14.8	16.2	18.3	15.5	13.4	9.9	7.7	4.9	2.1	0.7	0.0
85°	3.5	3.5	4.2	4.9	6.3	7.0	5.6	3.5	2.1	0.7	0.0
87.5°	1.4	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.0	0.0
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)