

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: P527023

Luminaire Tested: **GALN-SA2A-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527023  
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-SA2A-730-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5094 lumens  
Efficiency: N/A  
Efficacy: 80.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0

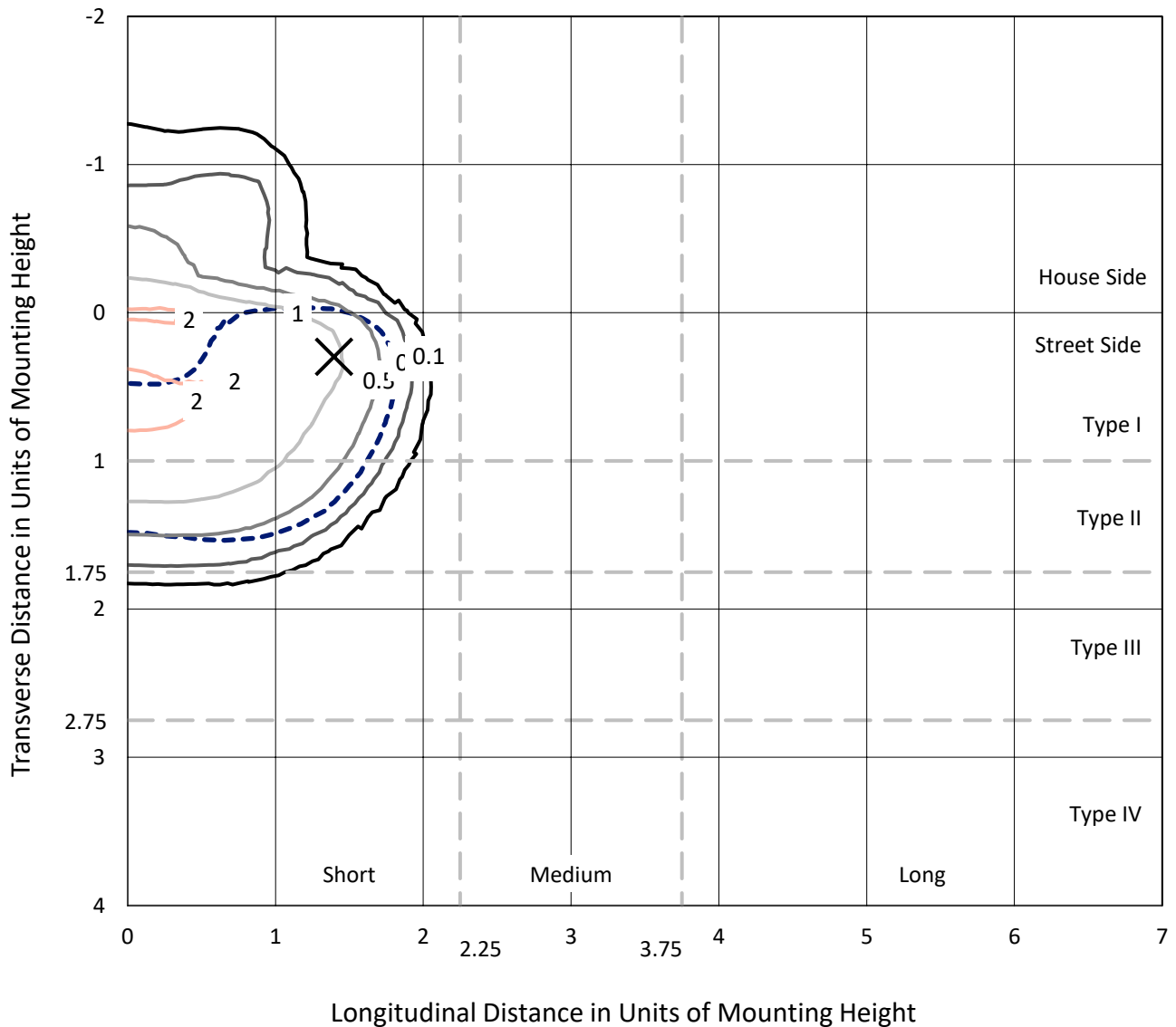
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

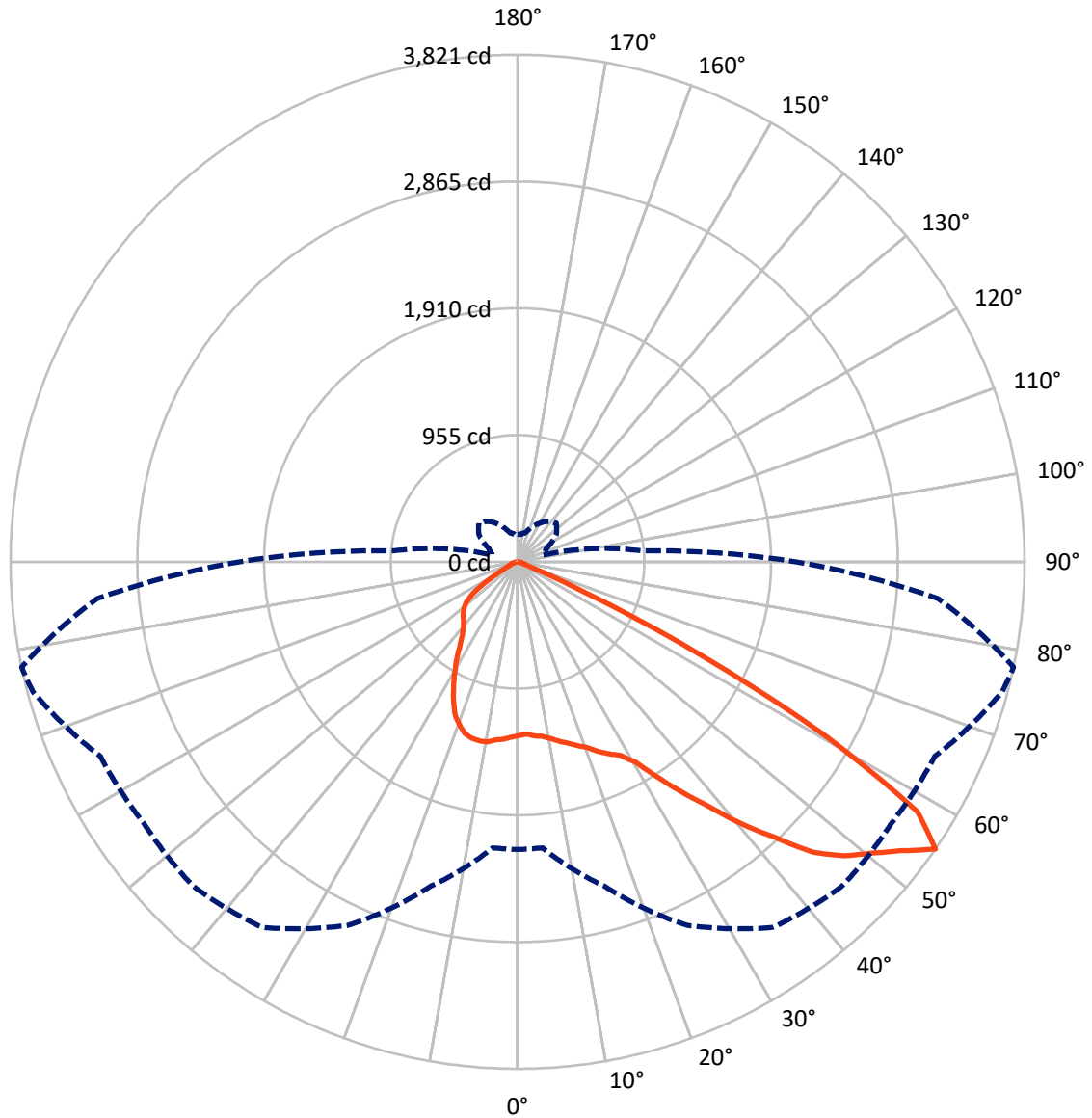
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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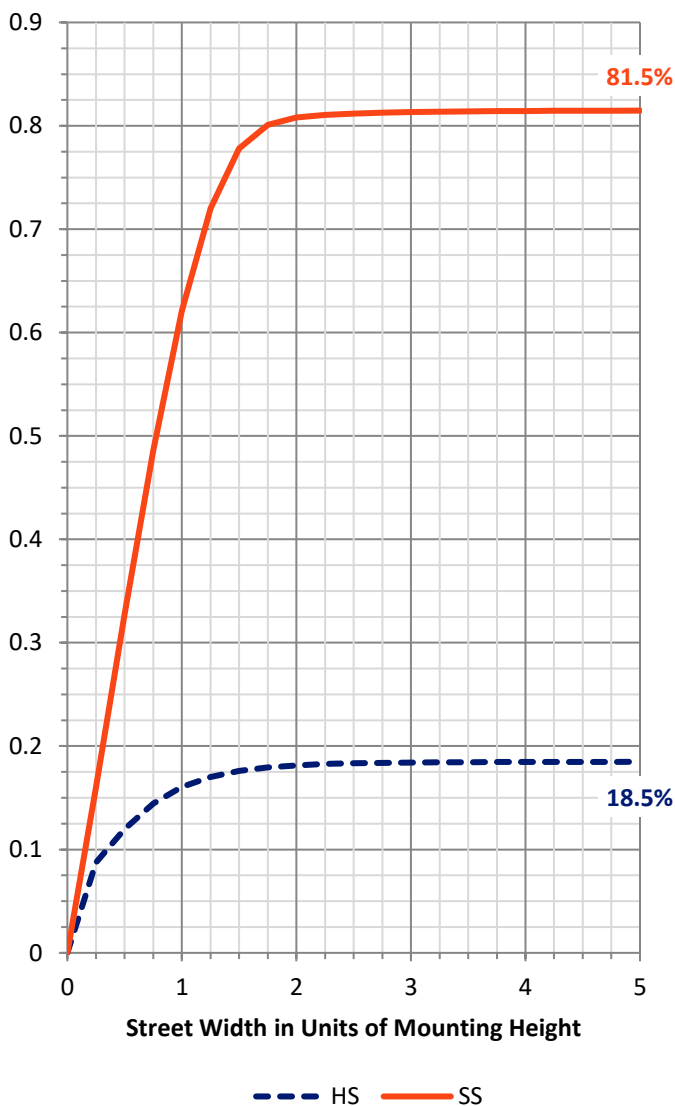
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	946.2	0.0	946.2
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	4147.8	0.0	4147.8
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	5094.0	0.0	5094.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.8	2.3
10°-20°	309.1	6.1
20°-30°	541.7	10.6
30°-40°	893.2	17.5
40°-50°	1299.8	25.5
50°-60°	1472.8	28.9
60°-70°	421.1	8.3
70°-80°	32.7	0.6
80°-90°	6.8	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°	5094.0	100.0
0°-180°	5094.0	100.0

**Coefficient of Utilization**



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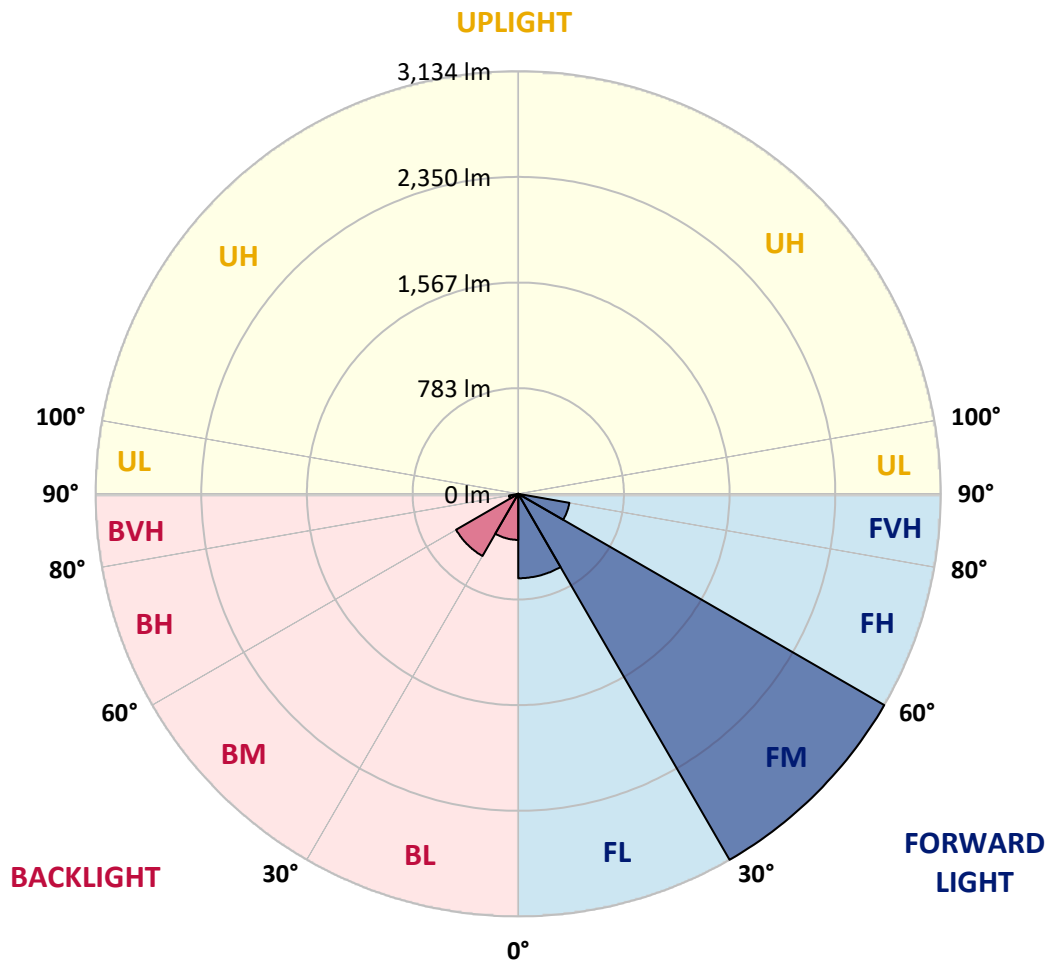
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	626.2	12.3			
FM (30°-60°)	3133.6	61.5			
FH (60°-80°)	384.7	7.6			G0/660
FVH (80°-90°)	3.3	0.1			G0/10
BL (0°-30°)	341.4	6.7	B1/500		
BM (30°-60°)	532.2	10.4	B1/1000		
BH (60°-80°)	69.1	1.4	B0/110		G0/110
BVH (80°-90°)	3.5	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°	1309.7	1309.7	1309.7	1309.7	1309.7	1309.7	1309.7	1309.7	1309.7	1309.7	1309.7
2.5°	1231.3	1243.2	1245.0	1259.6	1258.7	1283.3	1290.5	1291.5	1307.8	1299.7	1320.6
5°	1196.7	1190.4	1187.6	1213.1	1220.4	1242.3	1260.5	1271.4	1305.1	1317.0	1338.8
7.5°	1165.8	1165.8	1167.6	1190.4	1187.6	1215.9	1235.0	1268.7	1317.9	1327.9	1354.3
10°	1135.7	1124.8	1138.4	1162.1	1182.2	1194.9	1235.0	1266.9	1324.2	1353.4	1389.8
12.5°	1120.2	1125.7	1127.5	1144.8	1166.7	1204.9	1226.8	1279.6	1369.8	1387.1	1426.2
15°	1217.7	1206.8	1180.3	1164.9	1183.1	1201.3	1255.9	1309.7	1393.5	1418.1	1461.8
17.5°	1330.6	1321.5	1299.7	1257.8	1216.8	1250.5	1293.3	1342.5	1419.0	1455.4	1520.1
20°	1478.2	1463.6	1441.7	1359.8	1324.2	1287.8	1333.4	1391.6	1460.9	1493.6	1560.1
22.5°	1653.9	1653.9	1604.8	1505.5	1431.7	1397.1	1416.2	1449.9	1507.3	1551.9	1617.5
25°	1837.0	1831.5	1786.9	1684.0	1559.2	1518.2	1540.1	1563.8	1579.3	1603.8	1647.6
27.5°	2046.5	2014.6	1958.1	1844.3	1734.1	1654.8	1678.5	1657.6	1638.5	1651.2	1714.0
30°	2188.6	2208.6	2136.6	2027.3	1923.5	1835.2	1839.7	1821.5	1734.1	1752.3	1789.6
32.5°	2336.1	2348.8	2308.8	2248.7	2144.8	2041.9	2004.6	1989.1	1923.5	1931.7	1895.3
35°	2459.0	2483.6	2448.1	2421.7	2391.7	2308.8	2205.9	2255.9	2150.3	2130.3	2035.5
37.5°	2572.0	2564.7	2606.6	2579.3	2572.9	2514.6	2401.7	2411.7	2340.6	2336.1	2226.8
40°	2673.1	2674.9	2732.3	2745.0	2719.5	2615.7	2451.8	2531.0	2588.4	2593.8	2453.6
42.5°	2756.9	2781.5	2830.6	2933.6	2895.3	2722.3	2503.7	2590.2	2803.3	2837.0	2668.5
45°	2829.7	2879.8	2940.8	3032.8	3011.0	2873.4	2633.0	2712.2	3032.8	3121.2	2870.7
47.5°	2834.3	2899.9	2966.3	3103.0	3130.3	2954.5	2766.9	2905.3	3215.0	3310.6	3018.3
50°	2816.1	2850.7	2983.6	3132.1	3194.0	3086.6	2954.5	3067.4	3391.7	3451.8	3092.9
52.5°	2600.2	2626.6	2893.5	3159.4	3308.8	3235.9	3203.1	3293.3	3572.0	3616.6	3163.1
55°	2167.6	2163.1	2530.1	3021.9	3361.6	3457.2	3437.2	3469.1	3780.6	3820.6	3180.4
57.5°	1482.7	1565.6	1882.5	2516.4	3038.3	3405.3	3426.3	3373.4	3537.4	3552.9	2772.3
60°	799.6	834.3	1089.3	1679.4	2313.3	2775.1	2829.7	2734.1	2721.3	2677.6	1979.1
62.5°	317.9	335.2	480.0	831.5	1260.5	1686.7	1804.2	1765.0	1681.3	1566.5	1024.6
65°	151.2	162.1	238.6	388.9	559.2	703.1	820.6	857.0	632.1	569.2	337.9
67.5°	102.9	111.1	174.0	222.2	199.5	208.6	271.4	252.3	148.5	126.6	93.8
70°	78.3	83.8	139.3	151.2	89.3	62.8	70.1	65.6	61.0	61.9	61.0
72.5°	55.6	60.1	102.0	89.3	39.2	29.1	37.3	44.6	44.6	44.6	43.7
75°	33.7	38.3	59.2	34.6	15.5	15.5	23.7	30.1	31.9	32.8	31.0
77.5°	17.3	21.9	20.0	10.0	10.0	11.8	17.3	20.9	22.8	22.8	21.9
80°	3.6	3.6	3.6	5.5	10.0	12.8	17.3	19.1	21.9	21.9	20.0
82.5°	0.0	0.9	2.7	5.5	9.1	11.8	16.4	19.1	21.9	22.8	20.9
85°	0.0	0.9	1.8	3.6	6.4	7.3	6.4	5.5	5.5	5.5	5.5
87.5°	0.0	0.0	0.9	0.9	0.9	1.8	1.8	1.8	1.8	1.8	1.8
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°	1309.7	1309.7	1309.7	1309.7	1309.7	1309.7	1309.7	1309.7	1309.7	1309.7	1309.7
2.5°	1322.4	1325.2	1320.6	1319.7	1316.0	1327.0	1300.6	1294.2	1310.6	1295.1	1298.7
5°	1339.7	1346.1	1337.9	1324.2	1304.2	1273.2	1246.8	1212.2	1195.8	1184.0	1182.2
7.5°	1352.5	1357.0	1348.8	1305.1	1245.0	1166.7	1108.4	1065.6	1031.9	1021.9	1005.5
10°	1404.4	1405.3	1364.3	1267.8	1150.3	1047.4	958.1	892.5	858.8	837.9	828.8
12.5°	1439.0	1437.2	1354.3	1194.0	1037.4	900.7	798.7	719.5	688.5	678.5	672.1
15°	1482.7	1472.7	1330.6	1118.4	891.6	744.1	652.1	597.5	594.7	588.3	594.7
17.5°	1517.3	1489.1	1296.0	980.9	752.3	612.9	552.8	556.5	563.8	570.1	571.0
20°	1573.8	1515.5	1216.8	860.7	623.0	525.5	524.6	541.0	559.2	566.5	573.8
22.5°	1616.6	1526.4	1132.1	732.2	517.3	490.0	505.5	530.1	543.7	551.0	561.9
25°	1632.1	1496.4	1019.1	603.8	466.3	473.6	497.3	513.7	531.0	539.2	534.6
27.5°	1647.6	1480.9	884.3	497.3	439.0	462.7	482.7	499.1	504.6	515.5	522.8
30°	1684.9	1427.2	763.2	429.9	425.3	455.4	470.0	475.4	490.0	496.4	496.4
32.5°	1715.0	1406.2	634.8	398.0	423.5	459.0	460.8	460.8	462.7	458.1	456.3
35°	1776.9	1334.3	520.0	378.9	422.6	459.9	464.5	449.0	407.1	390.7	386.2
37.5°	1853.4	1287.8	435.3	374.3	429.0	470.9	478.1	419.9	365.2	338.8	334.2
40°	1946.3	1255.0	379.8	372.5	443.5	496.4	474.5	397.1	326.1	287.8	286.0
42.5°	2054.7	1225.0	342.4	371.6	461.8	522.8	470.9	378.0	286.0	260.5	264.1
45°	2141.2	1208.6	316.9	365.2	468.1	538.3	473.6	344.3	269.6	253.2	255.0
47.5°	2208.6	1174.0	296.0	354.3	467.2	543.7	449.0	330.6	261.4	265.9	270.5
50°	2210.4	1127.5	269.6	330.6	453.6	533.7	420.8	317.9	259.6	278.7	287.8
52.5°	2185.8	1061.9	241.4	296.9	421.7	499.1	395.3	312.4	251.4	249.5	260.5
55°	2098.4	939.0	194.0	240.4	356.1	411.7	372.5	302.4	226.8	205.8	207.7
57.5°	1695.8	673.1	143.0	172.1	252.3	301.5	336.1	297.8	204.0	174.9	175.8
60°	1050.1	381.6	104.7	117.5	155.7	183.1	272.3	276.9	182.2	147.5	145.7
62.5°	539.2	188.5	81.1	82.9	95.6	107.5	186.7	232.2	164.8	140.3	140.3
65°	180.3	92.9	71.0	63.8	63.8	66.5	112.9	161.2	139.3	117.5	117.5
67.5°	77.4	69.2	61.9	55.6	51.0	48.3	63.8	93.8	103.8	89.3	85.6
70°	60.1	58.3	53.7	46.4	40.1	36.4	37.3	48.3	59.2	57.4	55.6
72.5°	44.6	44.6	42.8	36.4	31.0	26.4	24.6	25.5	28.2	29.1	30.1
75°	31.0	31.9	31.9	28.2	22.8	19.1	16.4	13.7	10.9	9.1	8.2
77.5°	20.9	21.9	23.7	20.9	17.3	12.8	10.0	7.3	4.6	1.8	1.8
80°	18.2	20.9	22.8	20.9	18.2	13.7	10.0	5.5	2.7	0.0	0.0
82.5°	19.1	20.9	23.7	20.0	17.3	12.8	10.0	6.4	2.7	0.9	0.0
85°	4.6	4.6	5.5	6.4	8.2	9.1	7.3	4.6	2.7	0.9	0.0
87.5°	1.8	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	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)