

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: P320116

Luminaire Tested: **GLEON-SA2B-827-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320116  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA2B-827-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8168 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

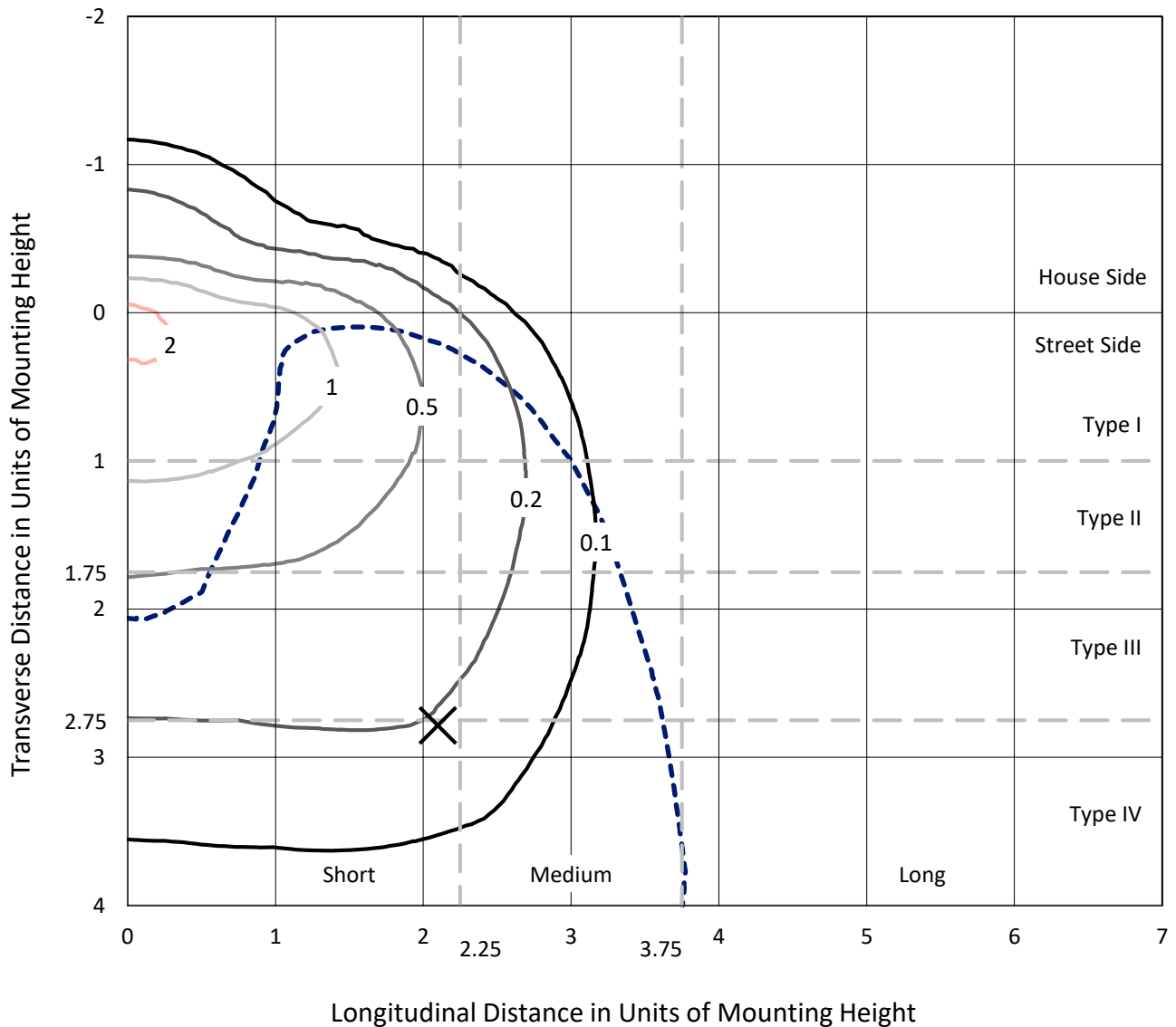
Input Watts (W): 85  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

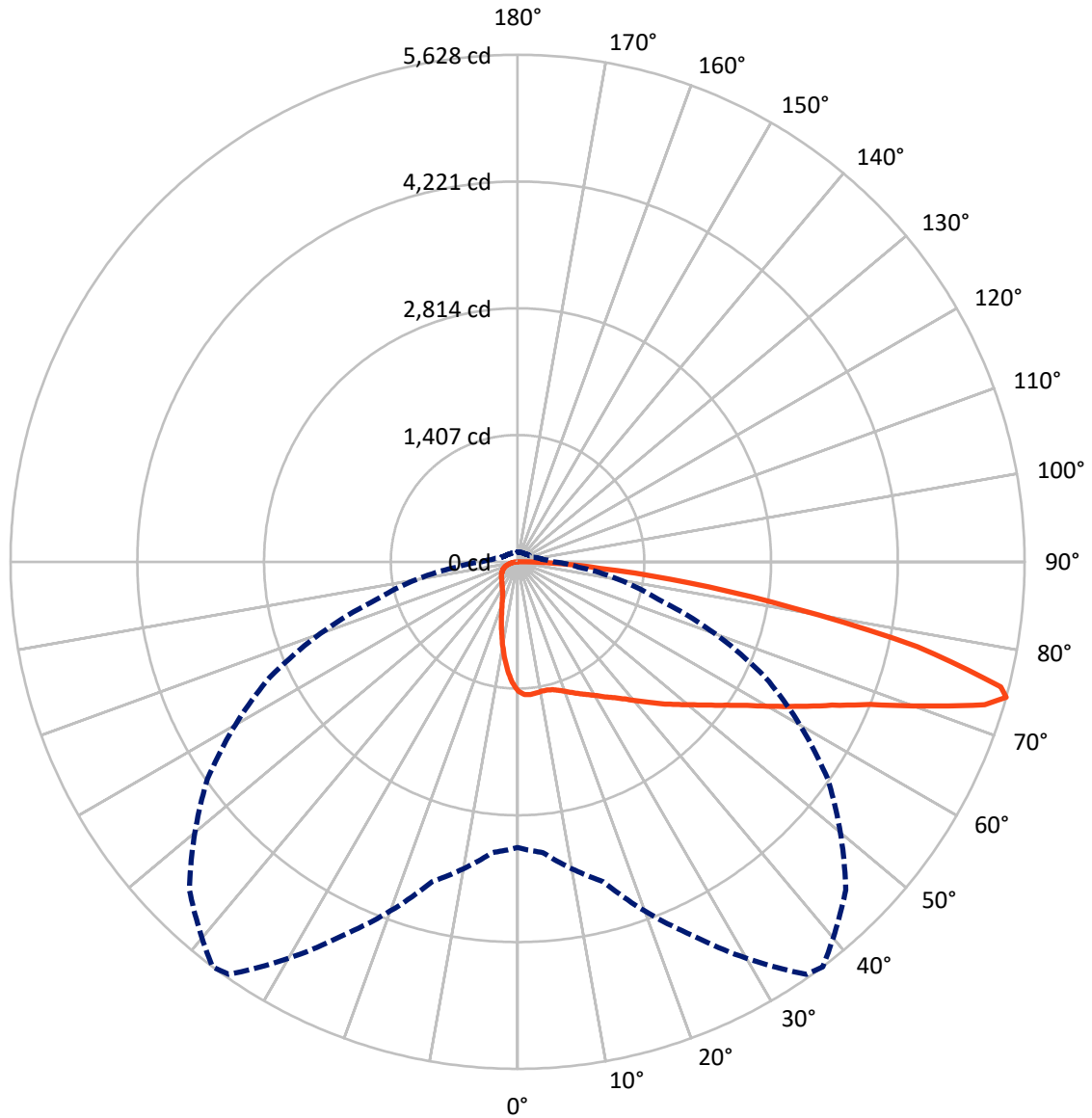
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1123.9	0.0	1123.9
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	7044.1	0.0	7044.1
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	8168.0	0.0	8168.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.7	1.6
10°-20°	324.9	4.0
20°-30°	500.5	6.1
30°-40°	727.9	8.9
40°-50°	1071.3	13.1
50°-60°	1504.4	18.4
60°-70°	1904.1	23.3
70°-80°	1676.7	20.5
80°-90°	331.5	4.1
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°	8168.0	100.0
0°-180°	8168.0	100.0

**Coefficient of Utilization**



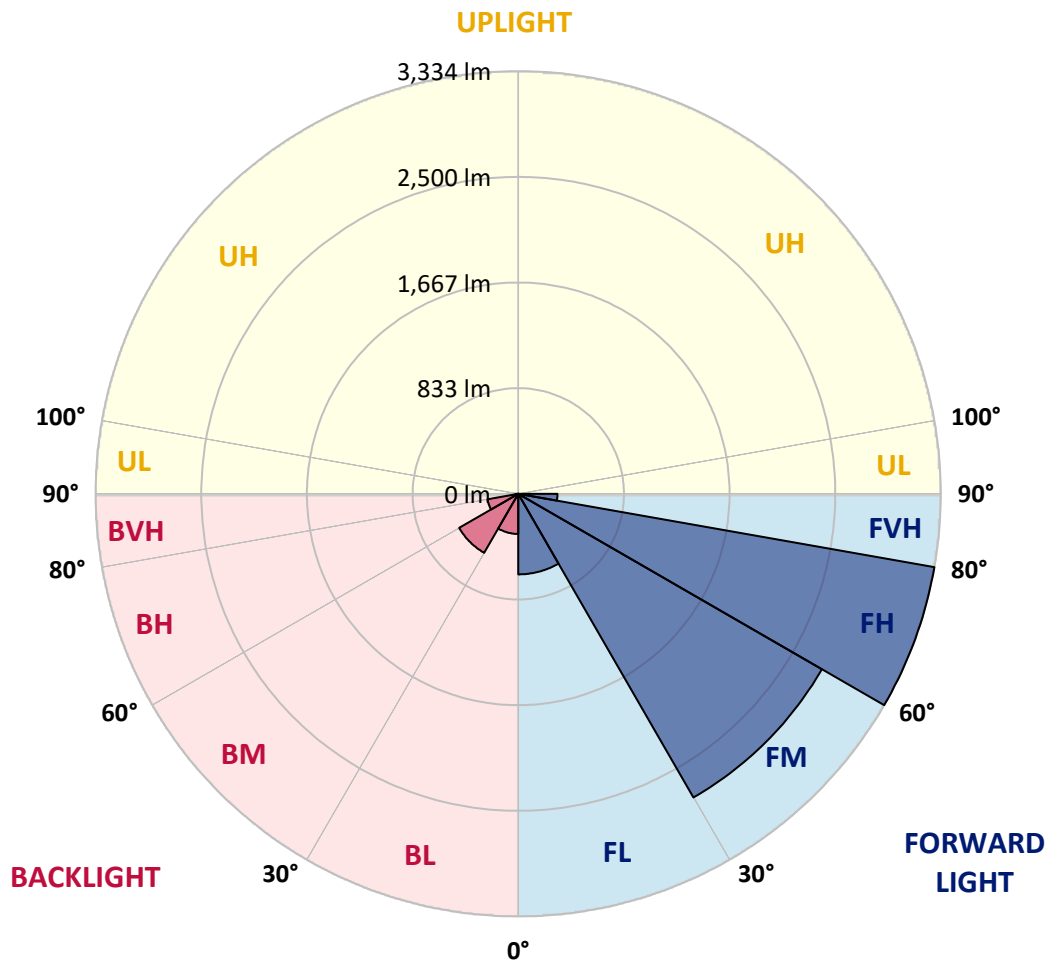
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	635.6	7.8			
FM (30°-60°)	2765.7	33.9			
FH (60°-80°)	3333.8	40.8			G2/5000
FVH (80°-90°)	309.1	3.8			G3/500
BL (0°-30°)	316.6	3.9	B1/500		
BM (30°-60°)	537.8	6.6	B1/1000		
BH (60°-80°)	247.0	3.0	B1/500		G1/500
BVH (80°-90°)	22.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	1439.2	1439.2	1439.2	1439.2	1439.2	1439.2	1439.2	1439.2	1439.2	1439.2	1439.2
2.5°	1488.4	1488.7	1488.4	1486.1	1480.6	1476.0	1472.3	1466.8	1454.7	1445.5	1431.7
5°	1502.5	1500.7	1499.6	1495.3	1486.6	1481.5	1474.3	1463.9	1444.1	1425.6	1403.2
7.5°	1495.9	1493.8	1491.2	1486.1	1476.3	1472.0	1461.9	1448.4	1424.5	1400.3	1368.1
10°	1475.4	1474.8	1473.7	1472.5	1464.2	1460.7	1451.5	1437.2	1413.6	1384.2	1346.5
12.5°	1452.7	1454.1	1458.7	1464.8	1461.0	1459.3	1453.6	1443.8	1419.6	1388.0	1342.5
15°	1438.3	1442.3	1454.7	1470.5	1473.7	1473.1	1471.7	1465.4	1439.7	1404.6	1351.7
17.5°	1433.4	1440.0	1463.6	1489.8	1499.0	1501.0	1501.6	1490.7	1462.2	1425.1	1361.2
20°	1442.3	1450.7	1485.2	1521.2	1535.8	1537.0	1534.4	1515.4	1483.5	1442.6	1366.4
22.5°	1469.4	1476.9	1520.0	1560.6	1577.3	1579.0	1571.2	1542.5	1505.9	1463.3	1373.6
25°	1521.5	1530.7	1573.8	1614.4	1623.0	1623.3	1612.1	1576.4	1535.3	1492.4	1389.1
27.5°	1589.4	1598.6	1637.4	1677.1	1672.5	1669.9	1654.7	1619.0	1573.5	1532.4	1416.7
30°	1665.0	1675.1	1711.9	1740.1	1729.2	1724.0	1711.6	1665.6	1626.8	1587.1	1459.0
32.5°	1743.3	1752.5	1784.7	1804.0	1790.2	1787.9	1769.2	1727.2	1696.1	1670.5	1527.5
35°	1823.6	1830.2	1861.8	1872.8	1854.3	1853.8	1848.6	1810.0	1790.5	1802.6	1627.1
37.5°	1905.6	1907.3	1934.3	1934.9	1929.4	1931.7	1937.2	1913.0	1918.5	1956.2	1756.5
40°	1978.6	1983.2	2002.8	2008.9	2018.3	2026.4	2053.7	2037.9	2080.2	2147.0	1917.6
42.5°	2032.7	2041.7	2073.0	2088.6	2119.3	2132.0	2170.6	2185.2	2270.4	2370.5	2109.3
45°	2078.5	2092.3	2142.6	2174.6	2226.7	2248.8	2304.1	2353.3	2485.3	2613.1	2311.0
47.5°	2128.0	2145.5	2208.5	2269.5	2340.3	2365.3	2465.8	2539.4	2714.6	2857.0	2501.1
50°	2200.8	2214.3	2275.9	2371.7	2460.0	2492.2	2631.2	2736.8	2947.7	3089.5	2666.0
52.5°	2302.3	2297.1	2349.2	2483.6	2602.1	2641.8	2807.8	2946.8	3183.9	3299.8	2805.3
55°	2404.5	2395.8	2432.4	2600.7	2767.9	2809.6	3002.3	3157.7	3408.6	3489.2	2912.0
57.5°	2518.1	2501.7	2532.5	2732.8	2956.6	3006.4	3220.1	3381.8	3629.6	3642.2	2979.9
60°	2635.2	2613.1	2647.6	2896.5	3196.3	3255.0	3475.1	3600.5	3837.9	3764.8	3001.8
62.5°	2737.6	2722.1	2775.3	3079.2	3466.4	3530.9	3725.4	3833.0	4043.3	3815.7	2922.9
65°	2827.1	2829.7	2921.8	3284.6	3767.7	3836.4	4012.5	4119.6	4205.0	3785.5	2738.5
67.5°	2933.9	2948.5	3105.6	3555.1	4146.9	4222.3	4430.3	4432.0	4295.4	3608.3	2375.4
70°	3089.5	3119.7	3358.5	3930.2	4686.1	4789.7	4950.2	4615.6	4168.5	3127.8	1869.0
72.5°	3227.6	3284.0	3627.6	4359.5	5343.2	5421.8	5254.3	4509.7	3638.2	2344.0	1164.4
74°	3171.5	3241.4	3676.5	4571.0	5590.7	5628.4	5151.6	4200.7	3033.4	1623.3	676.7
75°	3050.7	3126.6	3605.1	4569.0	5559.3	5538.3	4903.6	3847.7	2498.3	1107.1	450.3
77.5°	2462.0	2542.3	3037.7	3915.9	4558.3	4538.5	3766.8	2581.1	1094.2	363.1	228.7
80°	1431.4	1492.7	1885.7	2486.8	3073.7	3109.7	2477.3	1277.2	430.4	204.0	155.1
82.5°	635.9	678.2	910.9	1269.4	1854.9	1901.2	1297.3	669.2	265.9	124.0	93.2
85°	417.2	448.6	553.0	604.5	883.3	914.9	635.0	521.1	175.5	68.2	68.5
87.5°	300.1	330.3	410.9	358.8	405.4	383.8	345.6	482.2	70.5	38.8	23.0
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°	1439.2	1439.2	1439.2	1439.2	1439.2	1439.2	1439.2	1439.2	1439.2	1439.2	1439.2
2.5°	1425.6	1421.0	1410.7	1391.1	1380.2	1371.0	1355.7	1346.8	1342.8	1342.5	1344.2
5°	1390.3	1379.6	1352.9	1320.1	1293.9	1270.0	1240.4	1222.5	1209.9	1202.4	1204.4
7.5°	1349.1	1332.4	1290.4	1238.1	1196.0	1149.7	1104.0	1076.6	1055.4	1039.5	1042.4
10°	1320.9	1297.9	1236.6	1161.2	1091.3	1024.0	961.0	923.3	893.4	870.3	872.1
12.5°	1311.4	1280.3	1195.5	1094.8	996.7	904.6	822.3	764.5	733.7	707.5	709.5
15°	1312.9	1271.1	1160.9	1034.9	911.5	795.5	695.7	628.1	586.4	568.2	568.5
17.5°	1314.0	1260.5	1124.7	970.8	827.2	693.7	585.2	516.7	477.3	460.6	460.9
20°	1310.3	1243.2	1079.8	897.1	739.1	600.2	495.2	437.0	407.1	394.2	394.2
22.5°	1305.4	1222.8	1029.2	823.2	652.3	519.0	430.7	386.4	369.1	360.5	360.2
25°	1307.7	1207.6	977.4	747.2	572.3	454.3	387.8	358.5	347.0	341.5	341.2
27.5°	1320.1	1200.4	929.6	671.5	502.4	405.7	359.1	338.4	330.9	327.4	327.4
30°	1342.5	1200.4	879.8	607.1	444.2	369.7	336.9	322.8	317.6	315.3	315.3
32.5°	1381.6	1207.0	831.8	543.2	397.9	341.5	318.5	309.0	305.0	303.8	303.8
35°	1449.0	1229.4	784.9	482.8	360.5	318.5	301.0	295.5	292.6	292.3	293.2
37.5°	1543.6	1275.2	740.9	438.2	334.0	299.8	286.3	282.0	280.2	281.7	282.8
40°	1662.7	1337.3	700.9	397.9	313.9	284.8	272.8	269.9	269.0	271.0	272.8
42.5°	1806.6	1421.3	668.1	368.9	298.4	272.2	261.2	257.8	256.9	259.2	261.5
45°	1962.2	1511.7	645.1	347.3	286.3	262.7	251.2	247.4	245.7	246.9	249.5
47.5°	2103.8	1597.1	635.9	332.0	274.8	254.6	242.3	237.7	234.8	234.2	236.2
50°	2223.2	1660.7	640.2	322.8	265.6	245.7	233.6	228.4	224.1	221.5	223.0
52.5°	2310.1	1700.7	644.2	318.8	258.4	235.9	224.1	219.2	213.5	209.2	209.2
55°	2373.1	1709.9	635.3	315.6	252.9	225.3	213.5	208.9	203.1	198.2	197.7
57.5°	2397.8	1684.0	602.2	311.0	249.2	215.2	202.3	198.8	193.9	188.2	187.9
60°	2364.5	1604.0	538.3	301.2	244.3	206.9	191.0	188.7	186.4	181.0	180.7
62.5°	2230.4	1428.5	455.7	281.4	234.5	198.0	180.7	181.8	182.1	178.4	177.8
65°	1987.3	1187.4	375.2	255.5	219.8	187.3	170.0	175.5	178.7	178.1	177.2
67.5°	1634.0	924.2	317.9	228.2	200.5	172.6	158.5	164.9	167.5	169.5	168.9
70°	1212.7	651.7	263.0	199.4	177.2	155.4	143.6	146.7	145.0	147.3	148.2
72.5°	676.1	391.0	214.4	170.6	153.1	135.2	126.9	126.3	122.6	122.6	122.6
74°	405.7	286.9	188.5	152.8	138.4	122.0	114.8	112.2	108.8	109.0	108.8
75°	326.3	246.6	172.9	141.0	128.0	114.2	107.0	103.6	101.0	101.0	100.7
77.5°	206.0	187.3	139.3	112.2	102.4	94.1	89.2	84.6	84.6	84.3	84.0
80°	155.7	149.0	108.5	84.9	78.5	72.2	69.1	67.0	67.0	67.9	67.6
82.5°	106.7	112.2	76.2	59.3	56.1	51.5	50.9	51.2	50.4	49.2	48.9
85°	78.0	84.3	51.5	37.4	34.2	31.4	33.7	34.8	33.4	30.8	29.6
87.5°	29.9	55.2	27.6	15.5	14.4	12.4	14.4	15.0	16.1	12.7	12.9
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)