

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: P652160

Luminaire Tested: **GALN-SA1B-840-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652160  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1B-840-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4889.6 lumens  
Efficiency: N/A  
Efficacy: 111.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

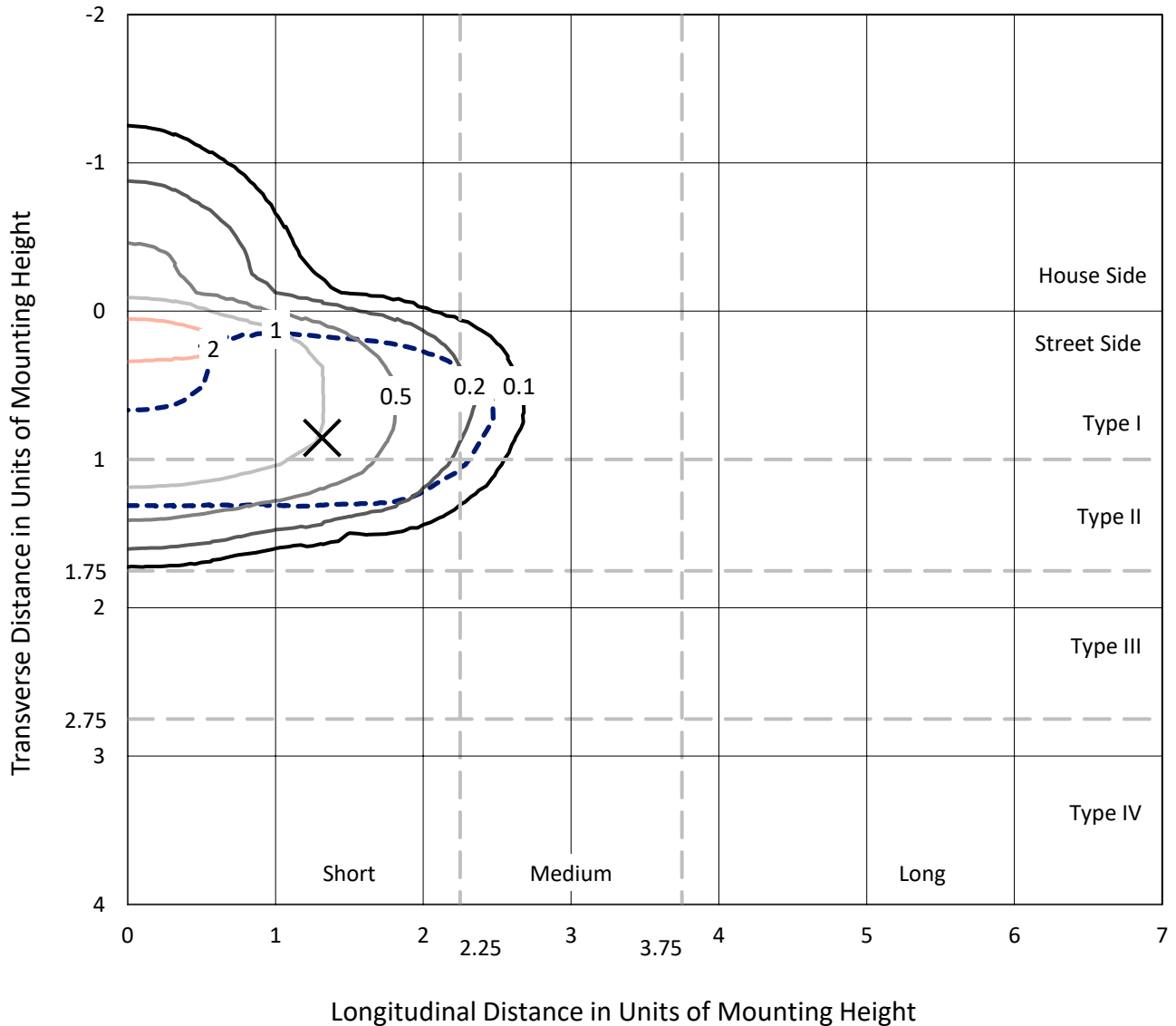
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

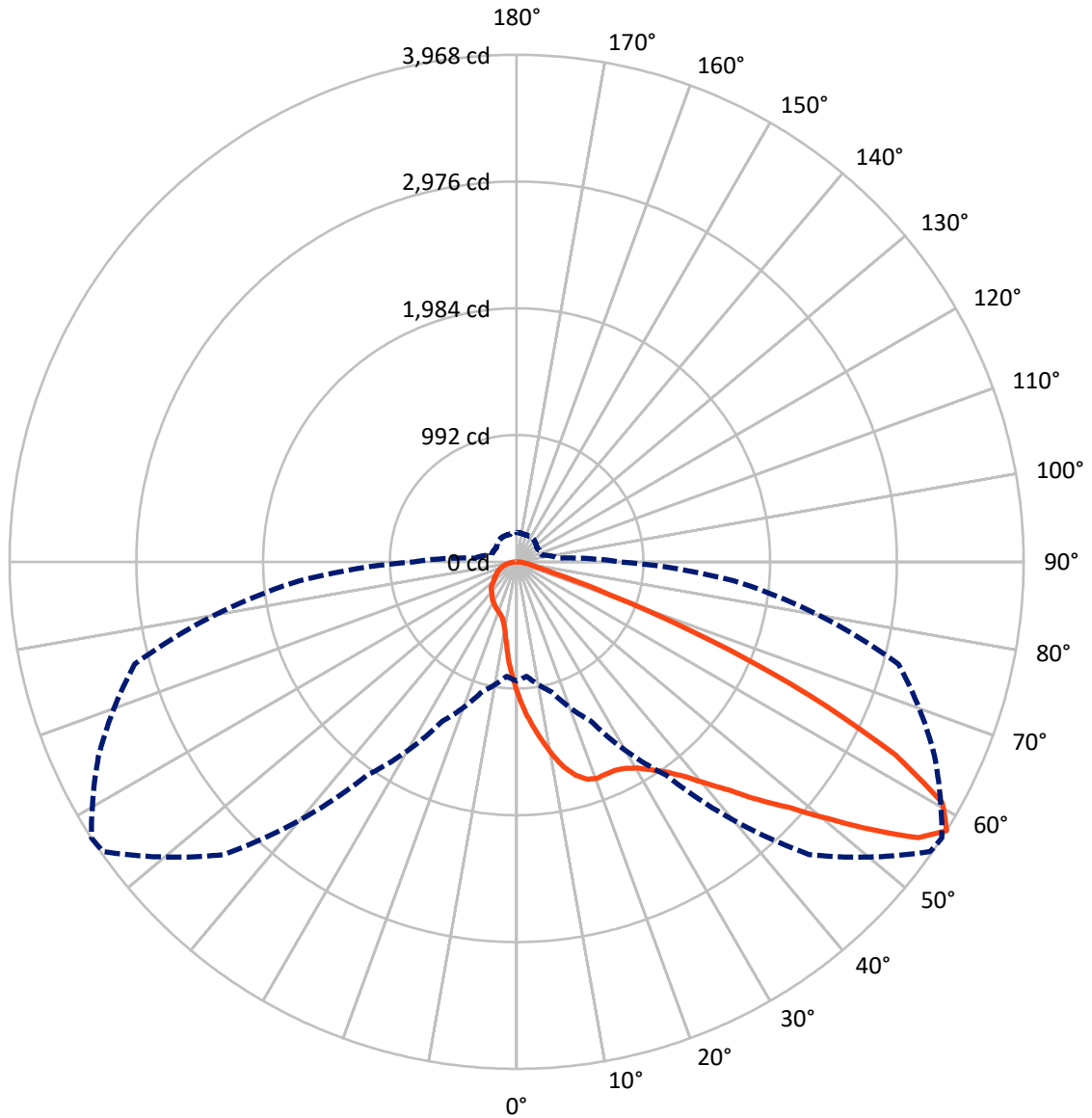
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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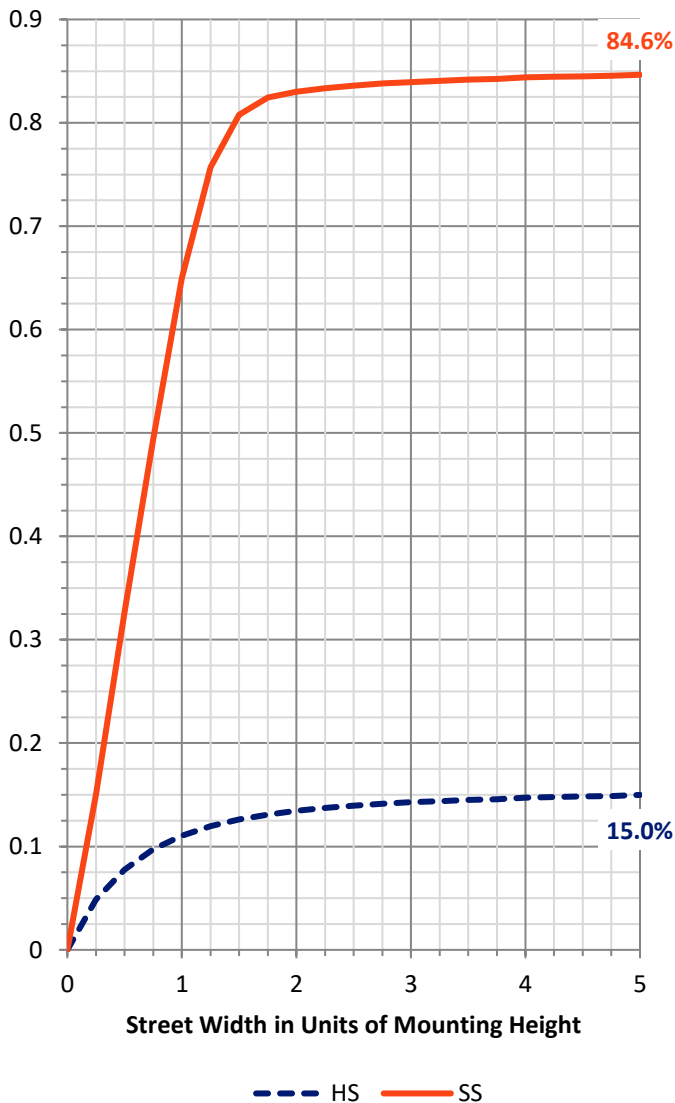
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	743.6	0.0	743.6
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	4146.0	0.0	4146.0
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	4889.6	0.0	4889.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.7	2.0
10°-20°	291.0	6.0
20°-30°	483.1	9.9
30°-40°	727.8	14.9
40°-50°	1092.6	22.3
50°-60°	1224.7	25.0
60°-70°	716.8	14.7
70°-80°	212.0	4.3
80°-90°	42.9	0.9
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°	4889.6	100.0
0°-180°	4889.6	100.0

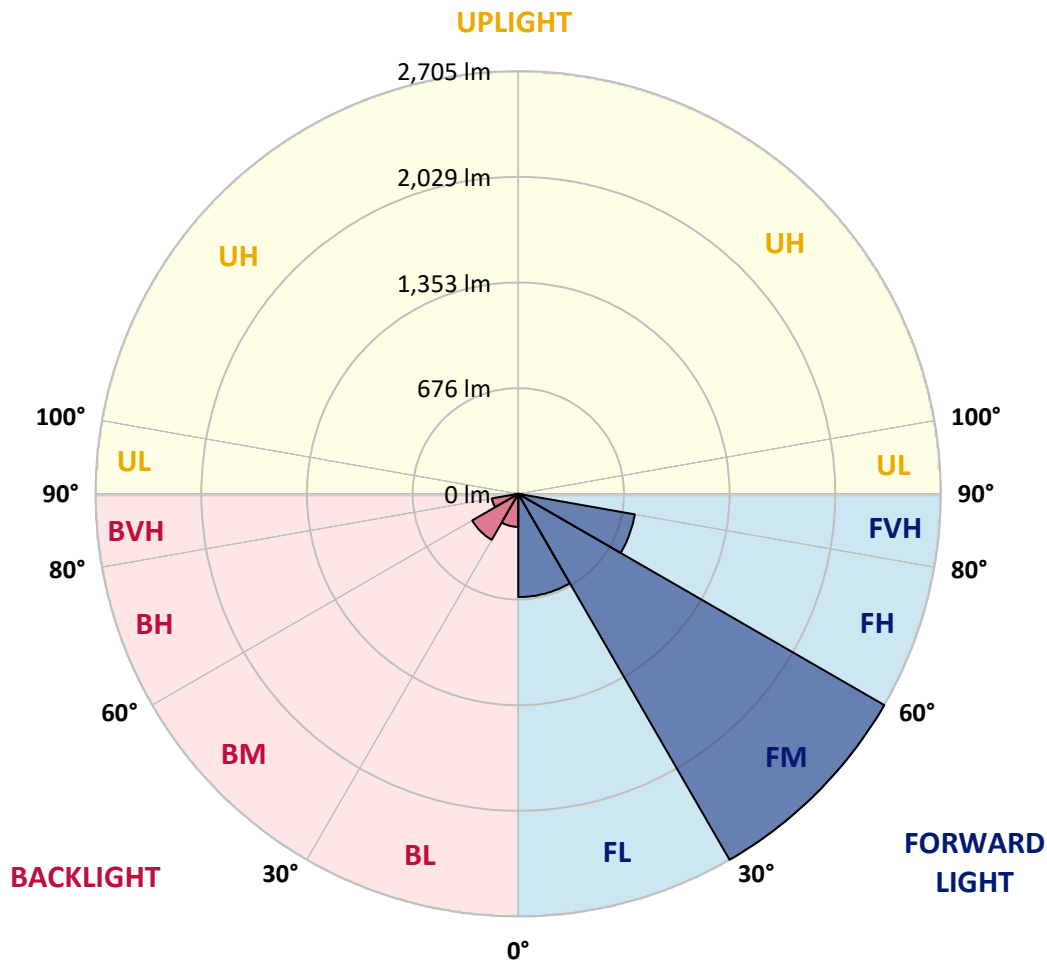


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	661.0	13.5			
FM (30°-60°)	2705.1	55.3			
FH (60°-80°)	757.7	15.5			G1/1800
FVH (80°-90°)	22.2	0.5			G1/100
BL (0°-30°)	211.9	4.3	B1/500		
BM (30°-60°)	340.0	7.0	B1/1000		
BH (60°-80°)	171.1	3.5	B1/500		G1/500
BVH (80°-90°)	20.6	0.4			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1027.3	1027.3	1027.3	1027.3	1027.3	1027.3	1027.3	1027.3	1027.3	1027.3	1027.3
2.5°	1276.4	1262.5	1251.6	1241.9	1229.3	1195.3	1161.3	1160.8	1133.8	1092.0	1049.2
5°	1484.4	1465.7	1468.0	1438.1	1408.1	1358.9	1286.9	1283.1	1225.6	1147.5	1067.9
7.5°	1619.9	1620.1	1612.6	1595.5	1563.1	1507.2	1425.5	1407.1	1327.0	1208.4	1089.3
10°	1612.9	1620.1	1632.6	1647.4	1657.3	1629.7	1555.3	1532.8	1428.7	1282.3	1113.1
12.5°	1520.3	1531.5	1549.5	1586.4	1646.1	1691.6	1666.1	1647.9	1546.5	1355.9	1139.4
15°	1462.4	1469.1	1479.1	1504.0	1568.1	1677.1	1743.0	1733.3	1657.5	1439.1	1168.8
17.5°	1444.8	1451.5	1454.7	1469.9	1515.7	1627.3	1773.2	1790.3	1756.1	1515.7	1198.5
20°	1462.4	1465.7	1465.7	1474.8	1510.6	1598.2	1771.8	1806.4	1836.9	1607.5	1226.3
22.5°	1508.8	1510.1	1508.2	1511.4	1538.2	1606.1	1759.3	1802.1	1902.2	1685.4	1248.0
25°	1583.9	1586.1	1573.8	1566.3	1585.8	1641.5	1766.3	1805.5	1953.3	1759.8	1262.5
27.5°	1669.3	1672.0	1657.0	1639.6	1648.7	1685.1	1793.5	1828.8	1991.6	1833.1	1271.6
30°	1774.0	1775.1	1749.9	1729.0	1723.1	1750.2	1840.1	1873.0	2039.3	1919.6	1285.3
32.5°	1881.1	1889.1	1856.7	1827.2	1817.3	1825.6	1908.9	1940.8	2095.9	2012.4	1307.2
35°	2026.6	2028.0	1989.2	1953.3	1920.7	1931.4	1997.0	2020.0	2174.4	2119.8	1338.3
37.5°	2208.4	2220.7	2167.2	2100.2	2060.1	2044.6	2103.5	2128.7	2284.4	2251.4	1385.1
40°	2410.2	2414.8	2369.0	2327.2	2253.9	2208.9	2249.6	2276.9	2420.1	2408.6	1439.5
42.5°	2537.0	2547.0	2550.4	2546.1	2491.0	2415.5	2431.1	2443.9	2580.7	2556.1	1495.1
45°	2579.9	2594.6	2644.4	2749.8	2755.7	2681.4	2645.2	2657.5	2755.7	2704.9	1548.4
47.5°	2509.0	2534.1	2625.9	2842.2	3004.1	3009.8	2900.8	2873.8	2915.2	2828.3	1586.9
50°	2325.6	2331.0	2471.4	2784.6	3120.5	3323.7	3211.0	3160.6	3066.7	2919.5	1613.4
52.5°	2041.9	2048.1	2165.8	2517.3	3048.8	3543.1	3573.9	3484.0	3220.6	2990.4	1630.8
55°	1515.7	1551.3	1680.8	2020.5	2708.9	3522.5	3862.5	3811.3	3406.6	3046.7	1658.1
57.5°	932.0	899.3	1052.9	1374.6	2037.3	3239.4	3951.6	3968.2	3611.4	3093.8	1703.9
60°	428.7	435.2	498.6	709.0	1241.9	2534.1	3721.9	3826.9	3724.6	3092.2	1715.4
62.5°	295.5	289.6	273.6	311.3	566.3	1602.7	3143.8	3321.5	3497.6	2996.1	1669.6
65°	264.2	258.3	227.2	216.8	260.1	698.5	2285.5	2509.8	2944.9	2753.6	1555.6
67.5°	246.7	238.8	206.6	186.3	185.8	278.1	1347.6	1617.7	2184.3	2328.1	1347.9
70°	228.6	222.1	190.3	167.8	158.2	174.8	592.3	775.4	1418.3	1677.6	1050.0
72.5°	210.3	202.8	174.3	150.1	137.6	130.9	227.0	295.2	801.3	1005.8	643.7
75°	183.8	180.1	155.8	136.0	122.3	105.7	144.0	164.3	383.2	462.0	323.0
77.5°	160.9	156.8	138.3	118.8	108.9	86.0	102.3	111.6	161.6	187.4	145.8
80°	117.7	121.8	116.7	105.0	97.1	67.4	68.8	76.5	96.1	106.2	89.1
82.5°	74.7	82.2	89.9	80.8	73.6	53.2	47.6	50.5	65.6	69.6	39.6
85°	31.3	31.9	52.2	49.3	42.0	31.6	28.7	30.3	35.1	36.7	18.5
87.5°	12.0	11.8	18.5	17.2	13.1	9.1	9.1	10.2	13.9	12.9	5.9
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°	1027.3	1027.3	1027.3	1027.3	1027.3	1027.3	1027.3	1027.3	1027.3	1027.3	1027.3
2.5°	1030.7	1011.7	974.0	927.1	892.9	854.4	820.3	796.0	786.9	782.6	774.6
5°	1029.9	992.5	914.3	832.4	766.6	699.1	642.1	605.2	602.0	577.3	574.9
7.5°	1030.2	972.9	848.5	728.0	627.6	558.6	511.5	499.1	484.4	480.7	482.6
10°	1031.0	948.1	777.8	624.7	527.6	482.3	464.7	459.9	460.4	462.0	462.2
12.5°	1032.1	923.9	704.4	546.3	471.3	452.6	450.7	455.0	459.5	463.1	463.8
15°	1033.4	896.3	633.0	483.1	443.2	441.6	447.7	455.0	461.5	466.5	467.3
17.5°	1031.8	864.2	573.1	444.3	427.7	435.5	445.6	454.7	460.6	465.4	466.0
20°	1028.0	828.4	515.2	417.0	418.1	430.7	441.6	450.2	456.6	459.0	460.9
22.5°	1013.6	785.6	464.9	395.9	406.5	423.9	437.1	442.2	435.0	429.8	431.2
25°	988.9	729.9	418.1	378.7	396.1	414.6	428.0	415.6	409.7	407.6	408.7
27.5°	958.2	668.8	382.7	360.8	382.7	404.2	400.4	398.3	395.6	392.1	392.9
30°	925.0	609.1	352.8	346.9	368.3	380.6	382.2	385.7	382.7	377.4	379.5
32.5°	894.2	553.0	330.0	335.1	358.1	356.2	368.3	372.3	358.7	340.7	341.5
35°	868.0	500.8	312.9	323.6	340.7	341.5	353.6	339.7	325.0	316.4	316.9
37.5°	848.1	460.1	301.7	313.7	318.5	328.7	322.3	315.0	313.2	307.3	307.6
40°	836.4	424.5	294.4	306.0	305.1	312.1	291.5	298.7	301.4	299.5	299.7
42.5°	824.6	399.3	286.9	295.2	294.9	281.3	276.8	282.9	289.9	290.6	290.1
45°	815.3	379.8	279.1	278.9	284.3	262.8	261.5	265.3	275.2	280.0	279.7
47.5°	804.8	363.5	267.4	259.9	261.5	251.3	249.2	250.8	262.8	270.6	272.7
50°	791.7	347.2	252.6	242.5	235.8	240.6	241.1	241.5	253.5	262.3	264.2
52.5°	781.3	334.8	235.8	228.3	220.3	231.0	235.0	235.6	242.8	249.9	251.3
55°	787.4	327.9	219.2	213.9	206.6	221.1	228.8	229.9	231.5	236.9	237.7
57.5°	805.9	329.5	205.8	198.9	193.5	209.3	222.4	223.2	222.1	228.6	229.7
60°	811.5	328.7	196.0	182.2	179.0	196.7	213.0	214.6	214.4	223.8	225.6
62.5°	787.9	318.5	186.0	168.4	166.2	183.8	199.9	206.4	207.7	221.1	223.5
65°	732.6	297.6	172.9	153.7	153.7	170.2	187.4	196.2	199.9	217.9	220.5
67.5°	659.5	273.0	159.5	141.0	140.5	157.1	174.0	183.1	189.0	213.3	215.0
70°	547.3	239.9	142.9	127.4	127.4	142.4	157.7	168.6	177.2	204.8	204.8
72.5°	375.0	199.4	122.9	111.9	112.1	126.1	141.6	153.9	164.1	187.6	188.1
75°	237.2	155.8	100.9	95.3	96.4	109.5	125.6	138.3	158.7	185.4	186.3
77.5°	126.1	109.5	80.3	79.0	80.3	92.3	110.3	127.9	159.3	160.9	158.2
80°	81.7	77.6	63.4	60.7	61.3	74.4	98.2	121.5	127.9	129.5	123.6
82.5°	44.4	49.3	45.0	42.3	42.3	58.1	83.8	96.6	91.8	76.3	72.8
85°	19.0	23.0	23.3	20.4	19.5	35.8	56.2	52.7	48.9	46.8	46.3
87.5°	5.4	7.5	7.5	5.6	4.3	9.9	11.3	3.2	0.0	0.3	0.5
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)