

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: P648200

Luminaire Tested: **GALN-SA1B-835-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648200
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-835-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4552.4 lumens
Efficiency: N/A
Efficacy: 103.5 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

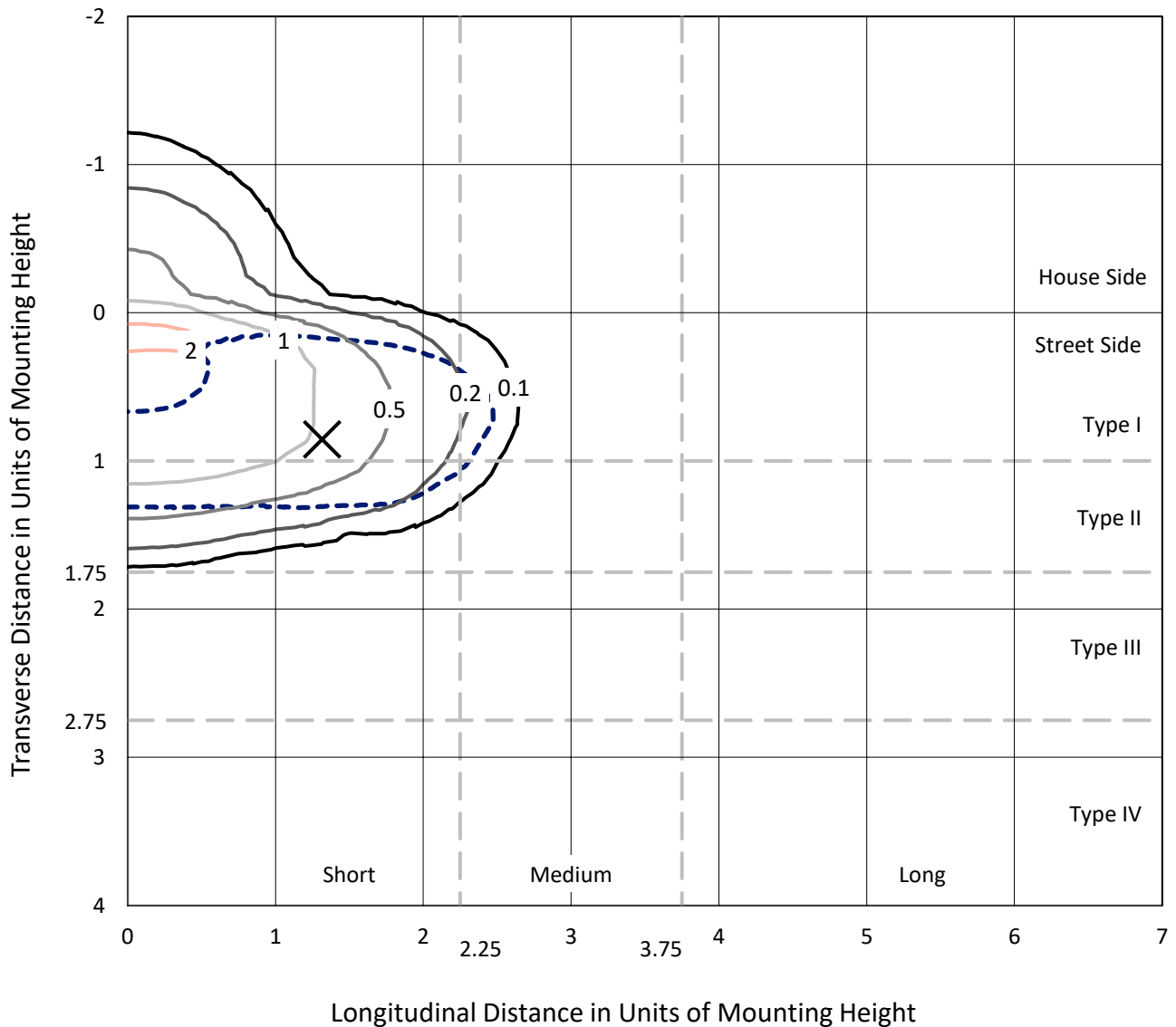
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

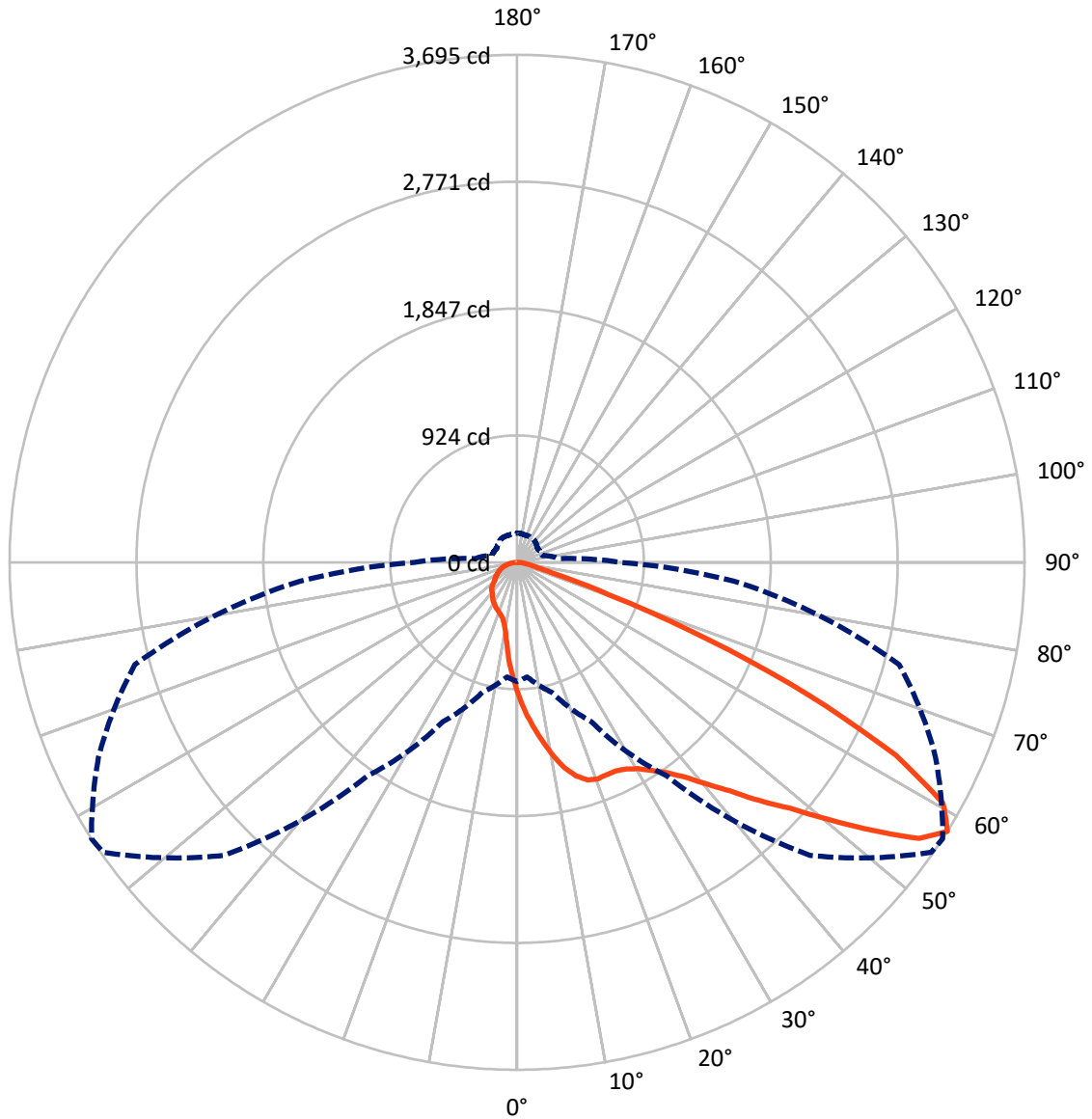
✕ Max cd
 - - - 1/2 Max cd



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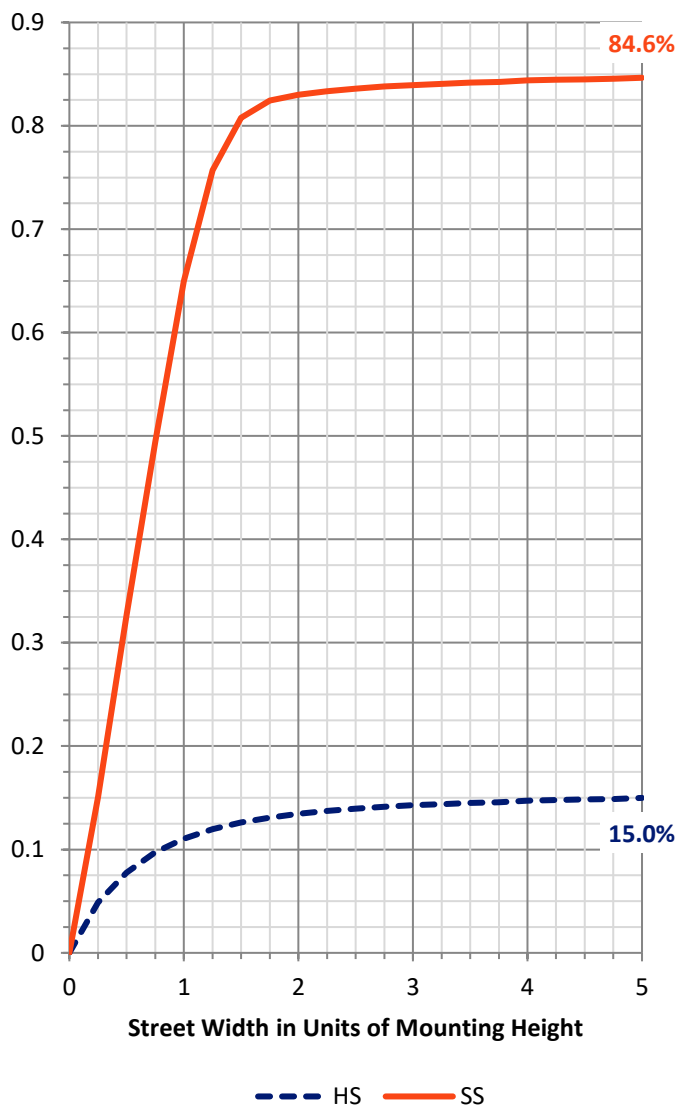
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	692.3	0.0	692.3
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	3860.1	0.0	3860.1
	% Fixture	84.8	0.0	84.8
Total	Lumens	4552.4	0.0	4552.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.9	2.0
10°-20°	270.9	6.0
20°-30°	449.8	9.9
30°-40°	677.6	14.9
40°-50°	1017.3	22.3
50°-60°	1140.3	25.0
60°-70°	667.3	14.7
70°-80°	197.4	4.3
80°-90°	39.9	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°	4552.4	100.0
0°-180°	4552.4	100.0

Coefficient of Utilization



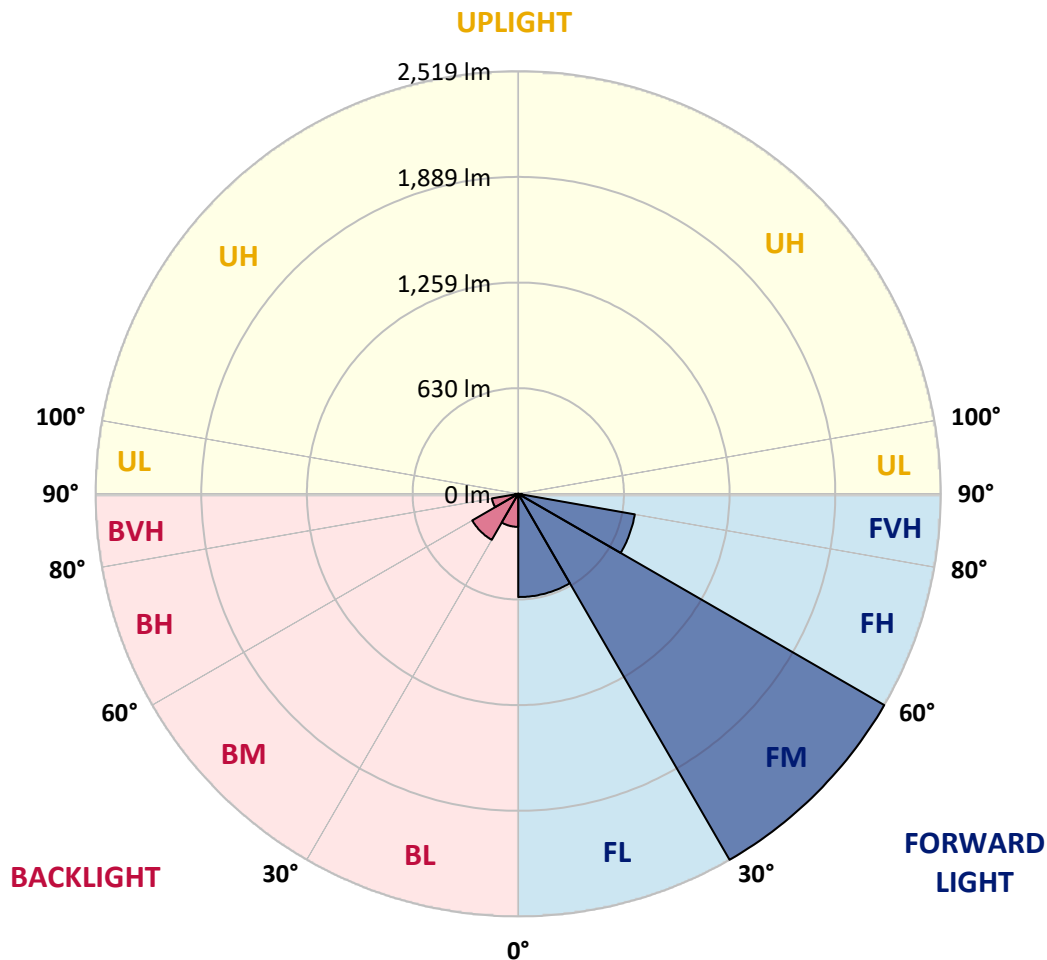
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	615.4	13.5			
FM (30°-60°)	2518.6	55.3			
FH (60°-80°)	705.4	15.5			G1/1800
FVH (80°-90°)	20.7	0.5			G1/100
BL (0°-30°)	197.3	4.3	B1/500		
BM (30°-60°)	316.5	7.0	B1/1000		
BH (60°-80°)	159.3	3.5	B1/500		G1/500
BVH (80°-90°)	19.2	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°	956.4	956.4	956.4	956.4	956.4	956.4	956.4	956.4	956.4	956.4	956.4
2.5°	1188.4	1175.4	1165.3	1156.3	1144.5	1112.9	1081.2	1080.8	1055.6	1016.7	976.9
5°	1382.0	1364.6	1366.8	1338.9	1311.0	1265.2	1198.1	1194.6	1141.1	1068.3	994.3
7.5°	1508.1	1508.4	1501.4	1485.4	1455.3	1403.2	1327.2	1310.0	1235.5	1125.1	1014.2
10°	1501.6	1508.4	1520.0	1533.7	1543.0	1517.3	1448.1	1427.1	1330.2	1193.8	1036.4
12.5°	1415.4	1425.8	1442.6	1477.0	1532.6	1574.9	1551.2	1534.3	1439.9	1262.4	1060.8
15°	1361.6	1367.8	1377.1	1400.2	1460.0	1561.5	1622.8	1613.8	1543.2	1339.9	1088.2
17.5°	1345.1	1351.4	1354.4	1368.5	1411.2	1515.1	1650.9	1666.9	1635.0	1411.2	1115.9
20°	1361.6	1364.6	1364.6	1373.1	1406.4	1487.9	1649.6	1681.8	1710.2	1496.6	1141.8
22.5°	1404.7	1406.0	1404.2	1407.2	1432.1	1495.4	1638.0	1677.8	1771.0	1569.1	1162.0
25°	1474.7	1476.7	1465.2	1458.3	1476.4	1528.3	1644.5	1681.0	1818.6	1638.4	1175.4
27.5°	1554.2	1556.7	1542.7	1526.5	1535.0	1568.9	1669.8	1702.7	1854.2	1706.7	1183.9
30°	1651.7	1652.7	1629.2	1609.8	1604.3	1629.5	1713.2	1743.8	1898.6	1787.2	1196.7
32.5°	1751.3	1758.8	1728.6	1701.2	1692.0	1699.7	1777.3	1806.9	1951.4	1873.6	1217.0
35°	1886.9	1888.1	1852.0	1818.6	1788.2	1798.2	1859.2	1880.7	2024.4	1973.6	1246.0
37.5°	2056.1	2067.5	2017.7	1955.4	1918.0	1903.6	1958.4	1981.9	2126.9	2096.2	1289.6
40°	2244.0	2248.2	2205.6	2166.7	2098.4	2056.5	2094.4	2119.9	2253.2	2242.5	1340.2
42.5°	2362.1	2371.3	2374.5	2370.5	2319.2	2248.9	2263.4	2275.4	2402.7	2379.8	1392.0
45°	2401.9	2415.6	2462.0	2560.2	2565.7	2496.4	2462.8	2474.2	2565.7	2518.4	1441.6
47.5°	2335.9	2359.3	2444.8	2646.1	2797.0	2802.2	2700.7	2675.6	2714.2	2633.2	1477.4
50°	2165.2	2170.2	2301.0	2592.6	2905.3	3094.5	2989.6	2942.7	2855.2	2718.2	1502.1
52.5°	1901.1	1906.8	2016.5	2343.7	2838.5	3298.8	3327.4	3243.7	2998.5	2784.2	1518.3
55°	1411.2	1444.3	1564.9	1881.2	2522.0	3279.6	3596.1	3548.5	3171.7	2836.6	1543.8
57.5°	867.7	837.3	980.3	1279.8	1896.8	3016.0	3679.1	3694.5	3362.4	2880.4	1586.4
60°	399.2	405.2	464.2	660.1	1156.3	2359.3	3465.2	3563.0	3467.8	2878.9	1597.1
62.5°	275.1	269.6	254.7	289.8	527.3	1492.2	2927.0	3092.5	3256.4	2789.4	1554.5
65°	245.9	240.5	211.6	201.9	242.2	650.4	2127.9	2336.7	2741.8	2563.7	1448.3
67.5°	229.7	222.3	192.4	173.4	173.0	258.9	1254.7	1506.1	2033.7	2167.5	1254.9
70°	212.8	206.8	177.2	156.2	147.3	162.7	551.5	721.9	1320.5	1561.9	977.6
72.5°	195.8	188.9	162.2	139.8	128.1	121.8	211.3	274.8	746.0	936.5	599.3
75°	171.2	167.7	145.0	126.6	113.8	98.4	134.0	153.0	356.8	430.1	300.8
77.5°	149.8	146.0	128.8	110.6	101.4	80.0	95.2	103.9	150.5	174.5	135.8
80°	109.6	113.4	108.7	97.7	90.4	62.8	64.0	71.3	89.5	98.9	83.0
82.5°	69.5	76.5	83.7	75.2	68.5	49.6	44.3	47.1	61.1	64.8	36.9
85°	29.1	29.7	48.6	45.9	39.2	29.4	26.7	28.2	32.7	34.1	17.2
87.5°	11.2	11.0	17.2	16.0	12.2	8.5	8.5	9.5	12.9	12.0	5.5
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°	956.4	956.4	956.4	956.4	956.4	956.4	956.4	956.4	956.4	956.4	956.4
2.5°	959.6	941.9	906.8	863.2	831.3	795.4	763.7	741.1	732.7	728.7	721.1
5°	958.9	924.0	851.3	775.0	713.7	650.9	597.8	563.4	560.5	537.5	535.3
7.5°	959.2	905.8	790.0	677.8	584.4	520.1	476.2	464.7	451.0	447.6	449.3
10°	959.9	882.7	724.1	581.6	491.2	449.1	432.6	428.1	428.6	430.1	430.3
12.5°	960.9	860.2	655.8	508.6	438.8	421.4	419.6	423.6	427.8	431.1	431.8
15°	962.2	834.5	589.4	449.8	412.6	411.2	416.9	423.6	429.6	434.3	435.1
17.5°	960.7	804.6	533.5	413.7	398.2	405.4	414.9	423.4	428.8	433.3	433.9
20°	957.1	771.3	479.7	388.2	389.2	401.0	411.2	419.1	425.1	427.4	429.1
22.5°	943.7	731.4	432.8	368.6	378.5	394.7	406.9	411.7	405.0	400.2	401.4
25°	920.7	679.6	389.2	352.6	368.8	386.0	398.5	387.0	381.5	379.5	380.5
27.5°	892.1	622.7	356.3	335.9	356.3	376.3	372.8	370.8	368.3	365.0	365.8
30°	861.2	567.1	328.5	323.0	342.9	354.4	355.9	359.1	356.3	351.3	353.4
32.5°	832.6	514.8	307.2	312.0	333.4	331.7	342.9	346.6	333.9	317.2	318.0
35°	808.1	466.3	291.3	301.3	317.2	318.0	329.2	316.3	302.6	294.6	295.0
37.5°	789.7	428.4	280.9	292.1	296.5	306.0	300.0	293.3	291.6	286.1	286.3
40°	778.7	395.2	274.1	284.9	284.1	290.6	271.4	278.1	280.6	278.8	279.1
42.5°	767.7	371.8	267.2	274.8	274.6	261.9	257.7	263.4	269.9	270.6	270.1
45°	759.0	353.6	259.9	259.6	264.7	244.7	243.4	247.0	256.2	260.7	260.4
47.5°	749.3	338.4	248.9	241.9	243.4	234.0	232.0	233.5	244.7	252.0	253.9
50°	737.1	323.2	235.2	225.7	219.6	224.0	224.5	224.8	236.0	244.2	245.9
52.5°	727.4	311.7	219.6	212.6	205.1	215.1	218.8	219.3	226.1	232.7	234.0
55°	733.1	305.3	204.0	199.1	192.4	205.9	213.1	214.1	215.6	220.6	221.3
57.5°	750.3	306.8	191.6	185.2	180.2	194.9	207.1	207.8	206.8	212.8	213.8
60°	755.5	306.0	182.4	169.7	166.7	183.1	198.3	199.8	199.6	208.4	210.1
62.5°	733.6	296.5	173.2	156.8	154.7	171.2	186.1	192.1	193.4	205.9	208.0
65°	682.1	277.1	161.0	143.1	143.1	158.5	174.5	182.7	186.1	202.9	205.3
67.5°	614.0	254.2	148.5	131.3	130.8	146.3	162.0	170.5	175.9	198.6	200.1
70°	509.6	223.3	133.0	118.6	118.6	132.6	146.8	157.0	165.0	190.7	190.7
72.5°	349.1	185.6	114.4	104.1	104.4	117.4	131.9	143.3	152.8	174.7	175.2
75°	220.8	145.0	94.0	88.7	89.7	101.9	116.9	128.8	147.8	172.7	173.4
77.5°	117.4	101.9	74.8	73.5	74.8	86.0	102.7	119.1	148.3	149.8	147.3
80°	76.0	72.3	59.0	56.5	57.1	69.3	91.5	113.1	119.1	120.6	115.1
82.5°	41.3	45.9	41.9	39.4	39.4	54.1	78.0	90.0	85.5	71.0	67.8
85°	17.7	21.5	21.7	18.9	18.2	33.4	52.3	49.1	45.6	43.6	43.1
87.5°	5.0	7.0	7.0	5.2	4.0	9.2	10.5	3.0	0.0	0.2	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)