

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: P651181

Luminaire Tested: **GALN-SA1D-840-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651181
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-840-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6524.5 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

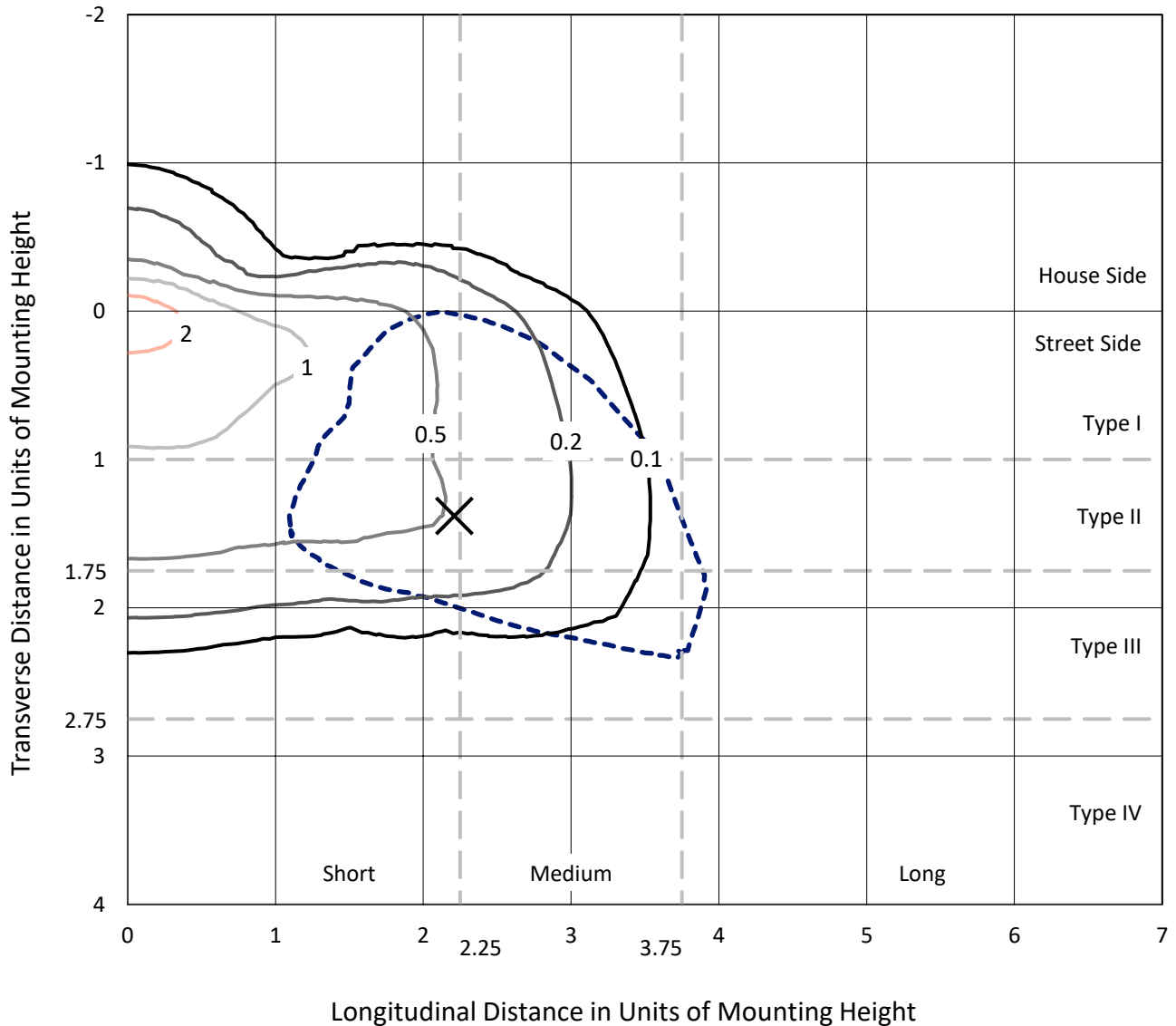
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

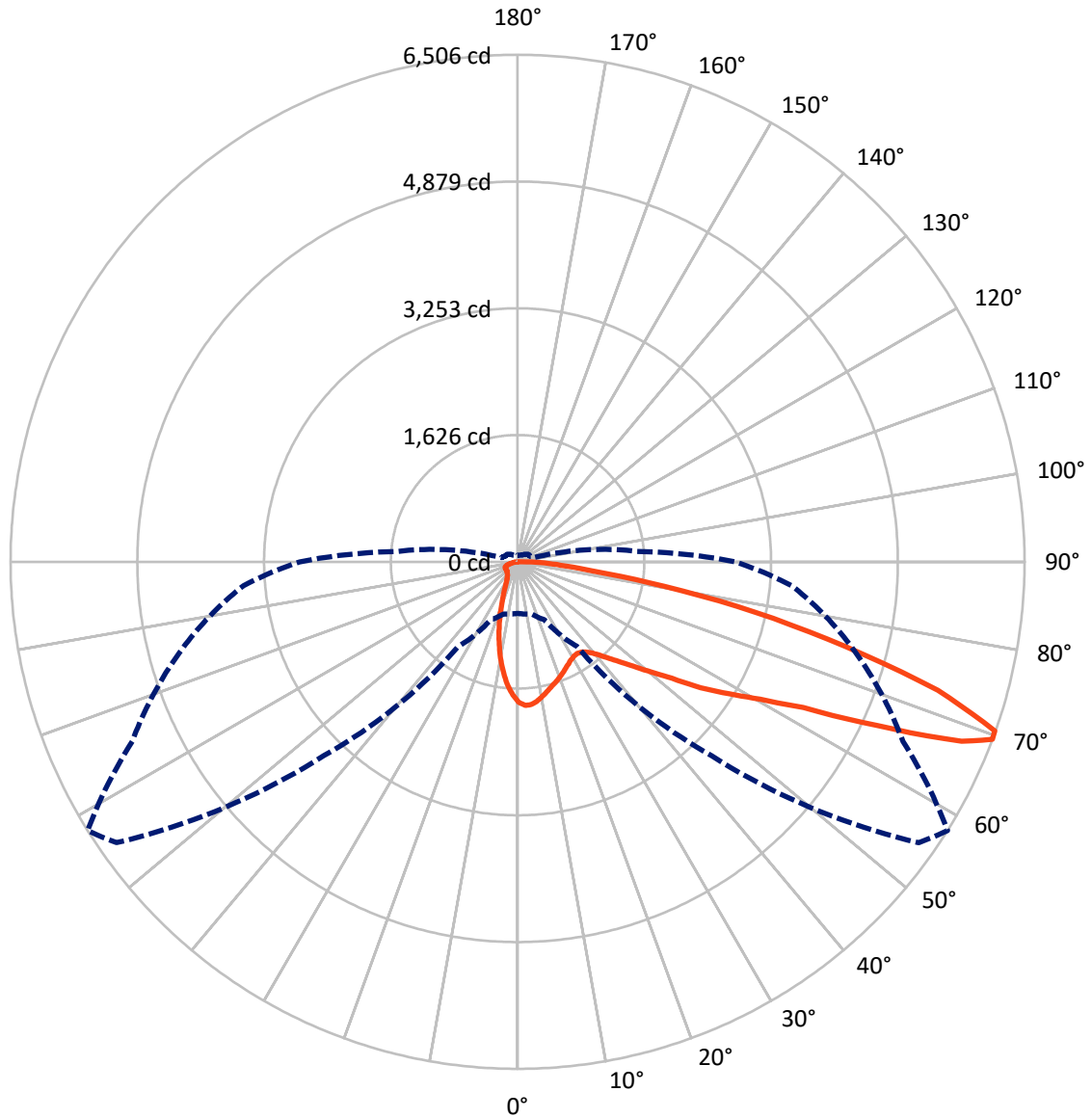
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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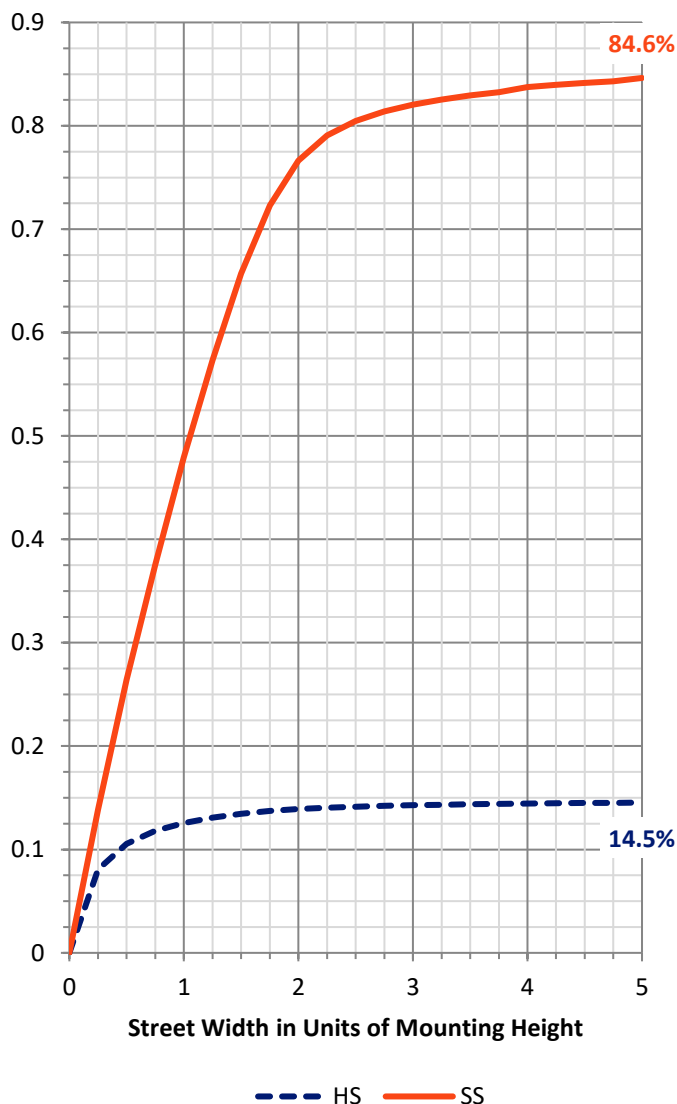
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	956.2	0.0	956.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	5568.3	0.0	5568.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	6524.5	0.0	6524.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.1	2.3
10°-20°	336.2	5.2
20°-30°	434.4	6.7
30°-40°	564.2	8.6
40°-50°	820.3	12.6
50°-60°	1308.9	20.1
60°-70°	1748.5	26.8
70°-80°	1007.9	15.4
80°-90°	151.0	2.3
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°	6524.5	100.0
0°-180°	6524.5	100.0

Coefficient of Utilization



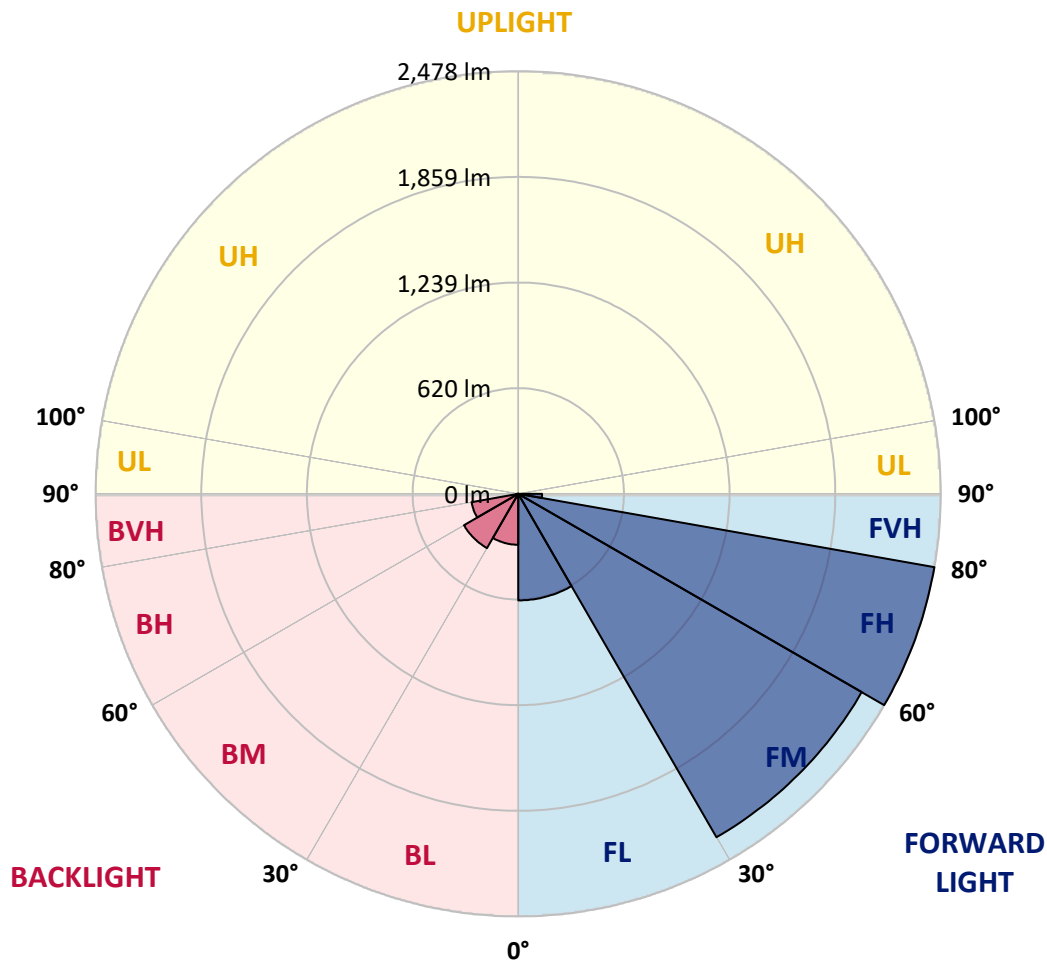
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	624.9	9.6			
FM (30°-60°)	2325.6	35.6			
FH (60°-80°)	2478.4	38.0			G2/5000
FVH (80°-90°)	139.4	2.1			G2/225
BL (0°-30°)	298.9	4.6	B1/500		
BM (30°-60°)	367.7	5.6	B1/1000		
BH (60°-80°)	278.0	4.3	B1/500		G1/500
BVH (80°-90°)	11.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1803.0	1803.0	1803.0	1803.0	1803.0	1803.0	1803.0	1803.0	1803.0	1803.0	1803.0
2.5°	1870.0	1875.0	1873.6	1871.7	1868.9	1860.9	1847.8	1845.6	1837.2	1819.3	1797.1
5°	1841.2	1845.6	1845.9	1848.4	1852.1	1850.6	1841.2	1840.1	1827.7	1803.7	1766.6
7.5°	1742.6	1748.4	1761.1	1775.4	1788.1	1800.1	1803.0	1804.8	1797.1	1769.5	1720.0
10°	1631.6	1637.4	1643.2	1664.3	1695.6	1725.5	1750.2	1753.5	1755.3	1729.9	1669.5
12.5°	1508.6	1520.6	1533.0	1564.3	1606.1	1653.1	1696.7	1703.6	1716.0	1696.7	1625.7
15°	1404.2	1416.6	1434.4	1462.4	1513.0	1580.7	1642.1	1653.4	1677.8	1668.0	1585.0
17.5°	1331.8	1336.1	1348.5	1380.5	1435.1	1506.4	1588.6	1611.2	1650.1	1647.6	1550.1
20°	1274.6	1280.1	1287.7	1307.4	1364.2	1439.5	1538.8	1568.0	1620.7	1629.4	1515.6
22.5°	1250.7	1254.6	1253.5	1264.1	1302.6	1378.3	1488.2	1522.8	1594.5	1617.1	1483.5
25°	1252.1	1255.7	1250.2	1247.7	1270.7	1324.5	1435.5	1479.5	1573.3	1608.7	1454.4
27.5°	1276.5	1279.0	1268.8	1258.6	1260.5	1291.0	1391.8	1440.5	1555.5	1612.3	1430.0
30°	1309.2	1314.0	1307.4	1295.1	1281.5	1283.0	1363.8	1411.8	1547.2	1625.1	1418.3
32.5°	1351.4	1355.8	1352.8	1343.1	1325.6	1306.3	1356.9	1401.3	1547.9	1650.9	1415.8
35°	1395.8	1404.6	1409.3	1408.5	1394.4	1360.9	1384.2	1421.0	1565.4	1694.2	1430.7
37.5°	1446.0	1453.3	1473.7	1486.8	1473.7	1434.7	1445.7	1471.2	1604.0	1756.8	1463.5
40°	1494.8	1505.7	1535.5	1576.3	1571.2	1537.0	1539.5	1556.3	1672.0	1849.9	1527.5
42.5°	1545.8	1558.8	1610.9	1671.2	1683.3	1656.7	1663.6	1678.6	1768.8	1979.1	1637.4
45°	1611.2	1626.8	1690.9	1766.3	1813.5	1797.1	1816.8	1824.1	1898.3	2147.2	1782.2
47.5°	1695.6	1713.9	1792.8	1886.7	1953.6	1968.5	2002.8	1998.4	2058.8	2346.2	1970.0
50°	1837.9	1848.1	1922.7	2018.4	2110.5	2177.8	2214.9	2221.8	2257.8	2539.8	2180.0
52.5°	2007.1	2016.2	2070.0	2153.7	2269.1	2411.7	2503.4	2480.9	2489.6	2775.6	2425.5
55°	2197.4	2212.7	2246.9	2302.6	2452.1	2662.1	2846.2	2851.7	2754.9	3001.2	2661.0
57.5°	2344.8	2370.6	2429.2	2508.5	2698.1	2940.5	3187.9	3191.5	3067.8	3242.1	2920.8
60°	2270.5	2301.1	2435.0	2628.2	3020.9	3426.2	3596.1	3575.4	3372.3	3516.5	3237.8
62.5°	1950.4	1955.8	2150.5	2452.5	3120.2	4076.1	4203.8	4116.1	3778.8	3864.3	3559.8
65°	1262.3	1297.9	1452.2	1875.4	2793.8	4436.7	5268.5	5065.8	4348.6	4259.1	3829.4
67.5°	796.8	787.8	851.8	1070.8	1921.6	4119.0	6177.1	6145.1	5093.9	4508.3	3765.0
69°	660.8	670.9	692.8	820.9	1322.3	3516.8	6284.5	6505.6	5455.1	4488.8	3531.0
70°	599.3	604.0	627.0	727.7	1020.3	2945.5	6108.4	6495.8	5597.1	4406.5	3361.5
72.5°	475.6	475.2	514.5	605.5	762.7	1681.4	5015.6	5639.7	5438.4	4023.7	2777.4
75°	361.3	367.2	410.4	512.3	702.7	918.8	3500.1	4343.2	4343.5	3178.1	1733.1
77.5°	260.5	264.2	314.8	430.1	661.9	744.9	2331.3	3115.1	2928.4	1456.2	544.7
80°	170.6	172.8	211.4	340.6	596.8	702.7	1382.4	1906.7	1381.3	386.4	180.1
82.5°	93.5	104.5	129.2	220.5	478.9	649.2	840.2	965.0	518.1	172.2	93.9
85°	46.9	49.9	72.7	128.8	312.9	537.1	585.1	553.5	267.4	85.5	48.8
87.5°	13.8	17.5	30.2	49.9	127.0	279.8	325.6	292.2	102.9	30.9	10.2
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°	1803.0	1803.0	1803.0	1803.0	1803.0	1803.0	1803.0	1803.0	1803.0	1803.0	1803.0
2.5°	1788.1	1781.5	1752.4	1726.2	1702.2	1676.7	1655.3	1636.3	1638.2	1638.5	1619.3
5°	1747.3	1732.4	1677.1	1625.4	1581.8	1526.4	1479.2	1448.5	1433.3	1412.9	1420.2
7.5°	1692.0	1663.2	1586.5	1500.6	1420.2	1348.5	1270.7	1217.2	1183.0	1149.8	1154.2
10°	1634.9	1588.6	1477.0	1363.4	1259.4	1144.8	1045.4	960.3	896.9	873.3	857.7
12.5°	1576.3	1515.6	1373.6	1222.6	1078.9	941.7	800.9	709.6	639.7	602.6	607.3
15°	1522.8	1449.0	1265.9	1081.8	895.2	731.8	591.3	504.3	455.6	445.4	451.2
17.5°	1473.3	1376.5	1165.1	944.9	727.0	548.8	444.3	395.2	375.5	370.0	369.7
20°	1422.4	1315.1	1051.9	798.7	566.6	425.4	364.6	341.7	338.0	340.2	340.6
22.5°	1370.7	1239.0	935.5	653.5	451.2	347.8	318.7	312.6	315.5	320.6	321.3
25°	1323.1	1172.0	823.4	526.1	360.2	305.6	291.5	291.5	298.1	305.6	306.0
27.5°	1283.7	1107.3	711.7	417.7	301.7	275.1	270.4	272.9	282.0	287.8	288.2
30°	1251.3	1046.9	606.2	334.8	265.3	250.7	249.6	254.0	260.5	266.0	266.3
32.5°	1226.9	993.7	507.6	281.3	240.2	232.1	231.8	235.1	238.7	240.2	241.6
35°	1217.5	949.7	417.4	247.4	223.5	218.3	218.3	218.0	219.4	220.2	220.8
37.5°	1225.2	915.8	347.5	225.6	211.0	207.4	205.2	203.0	202.3	202.3	202.7
40°	1257.5	898.0	295.4	211.4	202.3	196.9	192.8	190.3	187.8	188.5	189.2
42.5°	1326.3	901.3	260.2	201.9	194.7	187.0	181.2	178.3	176.4	178.6	178.3
45°	1435.8	934.1	237.6	195.4	187.0	177.2	171.7	168.9	168.9	172.2	173.2
47.5°	1589.0	996.7	225.6	190.3	181.2	169.5	164.1	161.9	162.6	168.1	168.5
50°	1776.0	1105.4	223.5	187.8	178.3	164.1	157.9	155.8	157.5	163.4	164.1
52.5°	1982.4	1245.5	234.0	188.1	175.8	160.8	152.8	149.5	151.4	156.1	157.5
55°	2226.9	1421.0	261.3	189.6	172.2	159.0	149.2	141.9	144.1	147.3	147.8
57.5°	2476.5	1642.1	309.3	190.0	169.2	155.8	143.0	133.6	133.6	135.7	136.8
60°	2781.4	1883.0	372.6	190.3	169.5	151.0	134.6	124.0	122.6	123.7	124.0
62.5°	3084.2	2084.6	383.2	189.2	173.2	146.2	125.6	114.6	112.1	111.7	111.0
65°	3217.8	2047.2	314.0	184.1	177.2	143.4	118.2	105.5	101.2	99.7	99.7
67.5°	3000.1	1731.7	236.2	177.2	174.7	140.4	111.3	97.9	92.8	89.9	89.9
69°	2795.7	1540.3	212.1	172.5	168.1	135.7	107.0	93.9	87.7	84.4	83.3
70°	2637.7	1408.5	201.9	168.5	161.9	130.3	103.7	91.0	84.0	80.4	79.7
72.5°	2105.0	1105.1	176.9	153.2	137.9	109.5	92.1	81.8	75.4	71.3	70.2
75°	1213.1	599.0	146.7	133.2	111.0	85.1	77.9	71.3	66.2	62.6	61.5
77.5°	373.3	231.4	106.2	105.1	81.5	65.9	62.2	59.7	56.0	52.1	51.3
80°	157.2	117.9	72.1	71.0	54.2	45.8	44.7	44.4	43.0	39.7	38.6
82.5°	86.2	66.6	50.2	43.6	32.7	26.6	27.7	28.0	26.9	23.6	21.4
85°	42.2	36.4	24.4	19.7	14.9	9.4	9.1	10.9	10.2	7.3	8.0
87.5°	8.4	10.2	6.6	2.9	1.4	0.0	0.0	0.0	0.0	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)