

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: P522668

Luminaire Tested: **GALN-SA2C-727-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522668
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11832 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

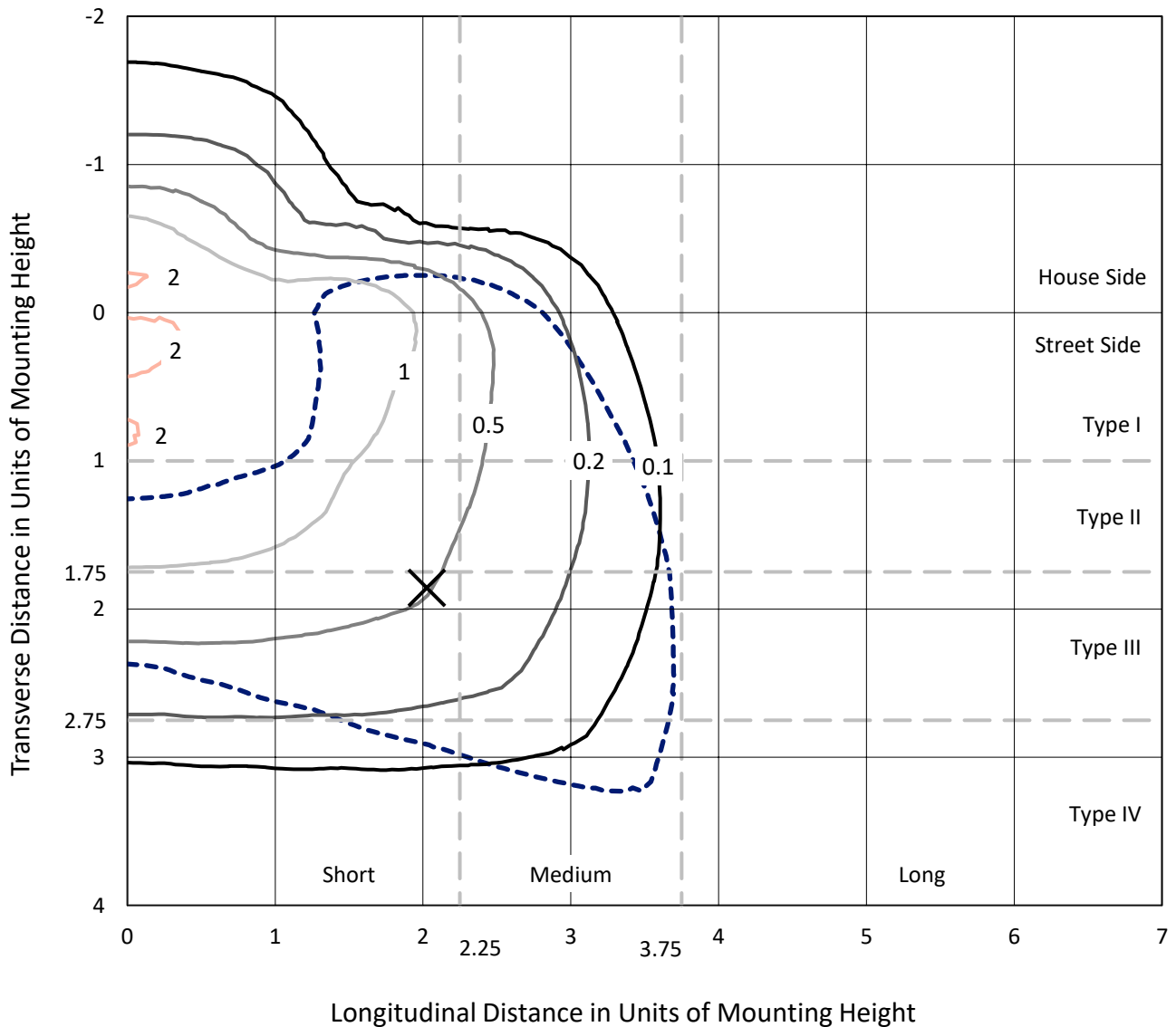
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

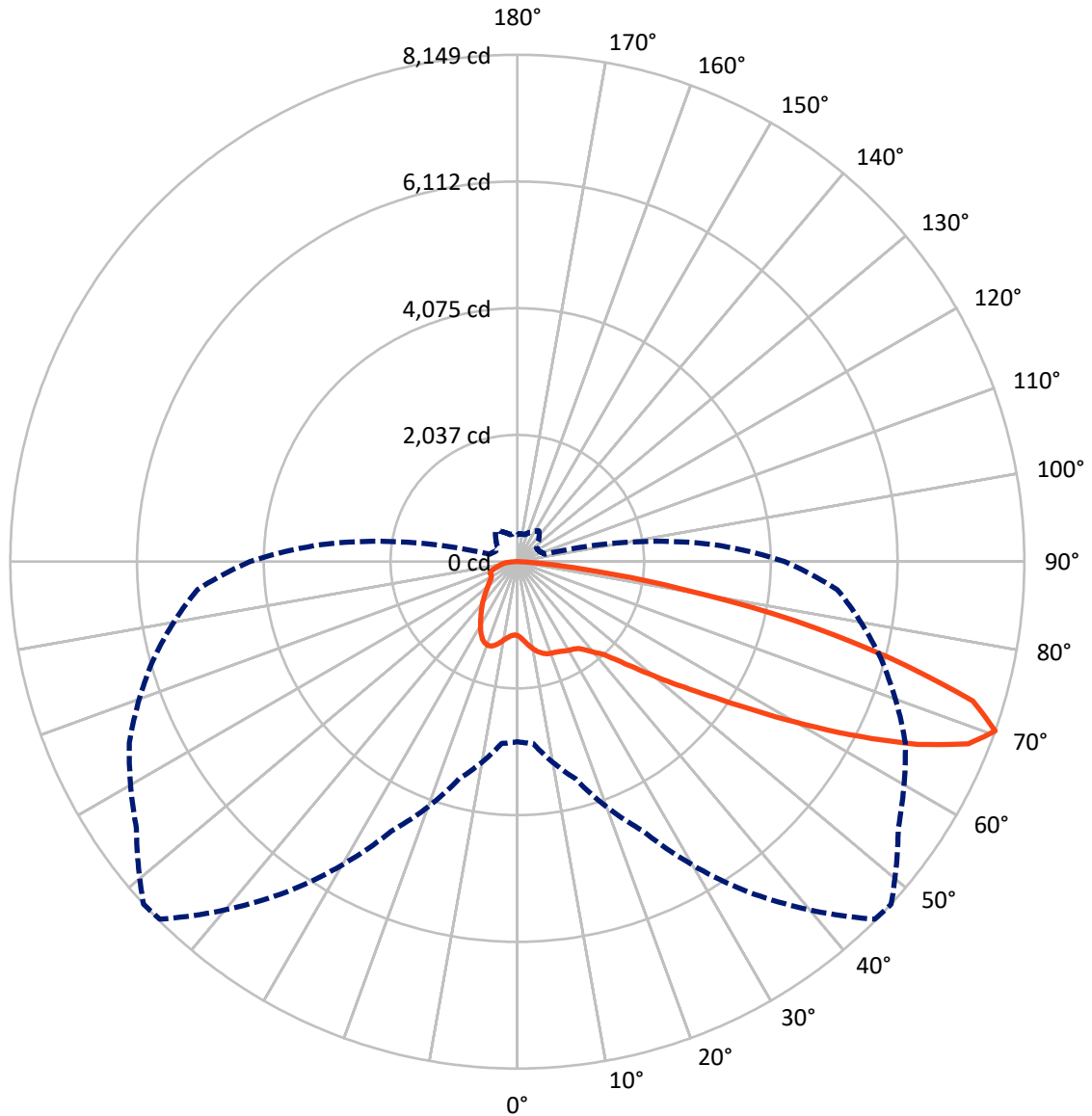
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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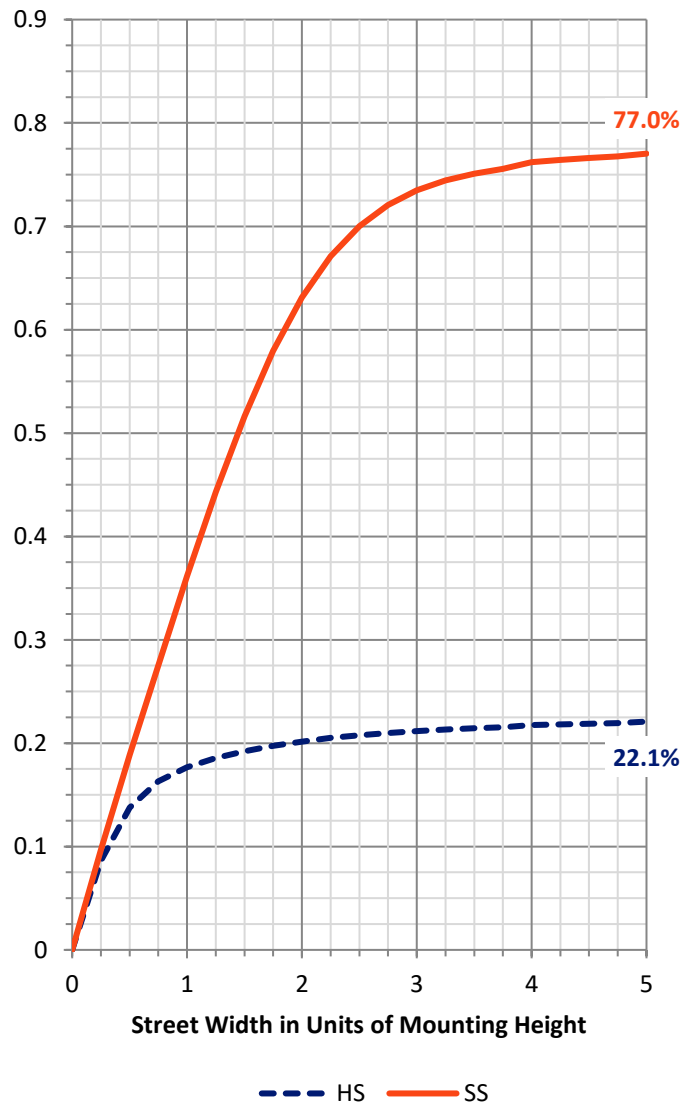
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2679.0	0.0	2679.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	9153.0	0.0	9153.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	11832.0	0.0	11832.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.4	1.0
10°-20°	409.3	3.5
20°-30°	680.7	5.8
30°-40°	964.8	8.2
40°-50°	1424.2	12.0
50°-60°	2466.8	20.8
60°-70°	3484.4	29.4
70°-80°	2003.0	16.9
80°-90°	276.4	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°	11832.0	100.0
0°-180°	11832.0	100.0



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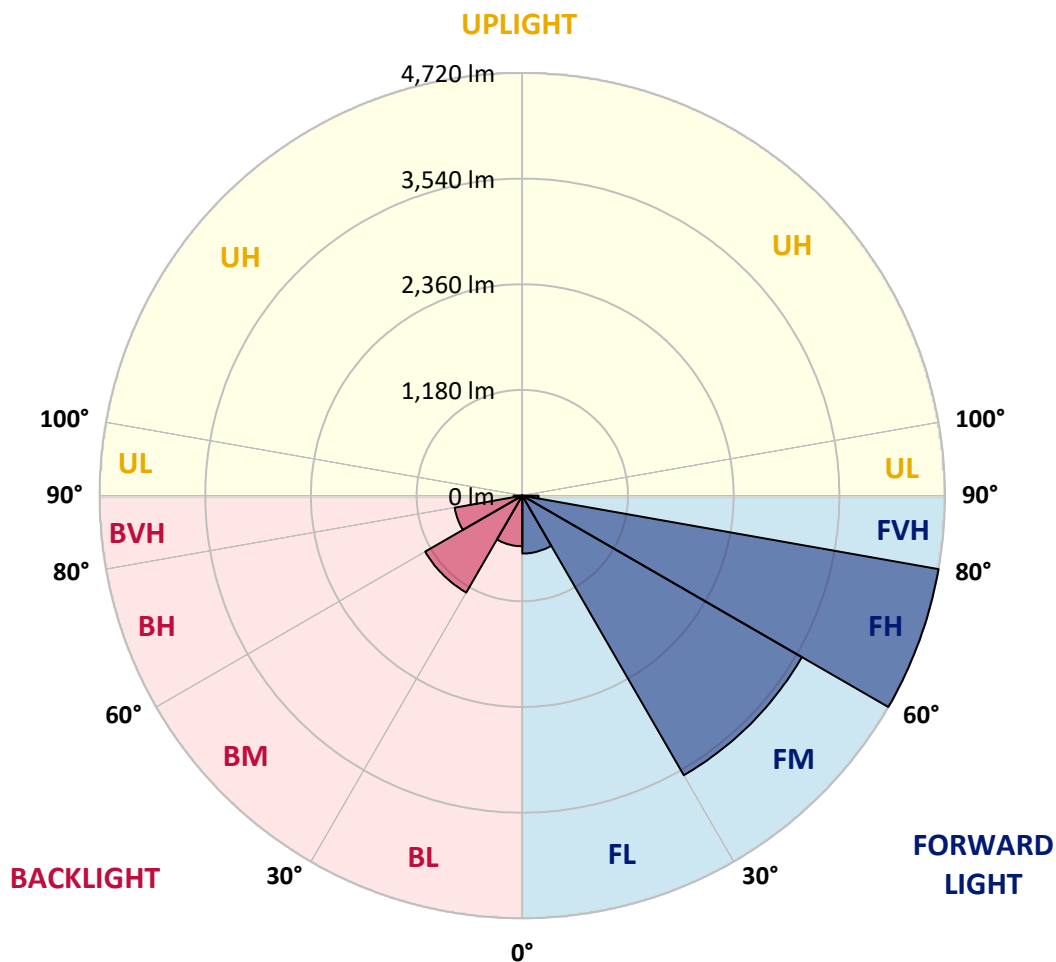
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	647.0	5.5			
FM	(30°-60°)	3605.0	30.5			
FH	(60°-80°)	4720.5	39.9			G2/5000
FVH	(80°-90°)	180.5	1.5			G2/225
BL	(0°-30°)	565.4	4.8	B2/1000		
BM	(30°-60°)	1250.8	10.6	B2/2500		
BH	(60°-80°)	767.0	6.5	B2/1000		G2/1000
BVH	(80°-90°)	95.8	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8
2.5°	1264.4	1260.0	1259.3	1249.8	1244.8	1235.3	1231.5	1222.6	1211.9	1201.1	1191.0
5°	1363.8	1363.8	1359.4	1346.1	1325.2	1303.7	1294.2	1277.1	1246.7	1222.0	1201.1
7.5°	1465.7	1467.0	1458.1	1438.5	1408.8	1373.9	1365.1	1339.7	1296.7	1260.6	1229.6
10°	1553.8	1553.8	1541.7	1515.1	1477.8	1439.8	1430.9	1402.4	1354.3	1309.4	1268.8
12.5°	1620.9	1620.9	1605.0	1570.2	1529.7	1495.5	1485.4	1458.1	1413.2	1363.2	1311.9
15°	1664.6	1661.4	1643.7	1604.4	1565.1	1535.4	1528.4	1505.6	1464.5	1413.8	1356.2
17.5°	1666.5	1665.2	1648.1	1615.2	1581.0	1560.7	1556.3	1541.1	1508.8	1460.7	1399.9
20°	1629.7	1632.3	1620.9	1597.4	1581.0	1572.1	1570.2	1565.1	1542.4	1497.4	1436.6
22.5°	1590.5	1594.9	1584.1	1571.5	1570.2	1579.1	1580.3	1581.6	1567.0	1523.4	1467.6
25°	1581.0	1584.1	1573.4	1562.0	1568.9	1592.4	1597.4	1602.5	1591.1	1554.4	1504.4
27.5°	1629.1	1626.6	1605.7	1581.0	1585.4	1617.1	1624.0	1629.7	1624.0	1592.4	1550.0
30°	1765.2	1757.0	1715.2	1643.0	1620.2	1642.4	1649.4	1665.2	1665.2	1641.8	1599.3
32.5°	1993.2	1977.3	1900.7	1758.9	1679.7	1666.5	1673.4	1699.4	1712.7	1694.3	1648.1
35°	2269.8	2253.4	2143.8	1953.3	1788.7	1714.6	1712.7	1741.8	1777.3	1736.1	1675.9
37.5°	2547.8	2530.7	2399.0	2185.0	1947.6	1815.9	1804.5	1814.6	1829.8	1754.5	1714.6
40°	2825.8	2805.5	2690.3	2444.0	2141.9	1950.1	1920.3	1874.8	1868.4	1814.6	1789.3
42.5°	3101.2	3082.8	3024.6	2734.6	2374.9	2081.2	2035.6	1957.1	1981.1	1948.8	1926.7
45°	3379.1	3380.4	3318.3	3060.6	2656.1	2323.0	2261.6	2138.8	2195.8	2183.7	2196.4
47.5°	3625.4	3622.3	3600.1	3377.2	3004.9	2634.5	2555.4	2412.9	2510.4	2554.8	2651.6
50°	3864.1	3862.2	3863.5	3736.2	3410.1	3004.9	2917.6	2768.1	2987.8	3141.7	3315.2
52.5°	4206.0	4216.8	4140.2	4106.6	3902.7	3442.4	3346.2	3191.7	3552.0	3794.5	4133.2
55°	4549.2	4540.3	4480.2	4515.0	4418.1	3960.4	3859.7	3736.9	4180.1	4445.4	4954.4
57.5°	4751.2	4754.3	4815.7	4986.1	5054.4	4606.2	4515.0	4420.0	4886.0	5074.1	5685.1
60°	4932.9	4947.4	5124.1	5445.7	5631.2	5399.5	5318.5	5226.0	5533.7	5608.4	6319.5
62.5°	4989.9	5034.8	5343.2	5824.4	6193.5	6294.8	6194.1	5990.2	6150.4	6121.3	6749.4
65°	4705.6	4767.0	5319.7	5966.2	6695.6	7144.5	7080.5	6701.9	6675.9	6500.6	6819.7
67.5°	3957.2	4018.6	4728.4	5668.6	6903.2	7880.2	7816.2	7221.1	6995.0	6536.0	6287.8
70°	2895.4	2934.0	3612.8	4772.7	6486.0	8127.1	8149.3	7474.3	6881.1	6054.2	5162.7
72.5°	1668.4	1753.8	2229.3	3357.6	5298.8	7502.8	7656.7	6947.6	6160.6	5050.6	3609.6
75°	717.4	719.3	1030.8	1852.0	3588.7	6030.8	6179.5	5759.1	4837.9	3492.5	1927.3
77.5°	341.3	347.6	453.3	826.9	1975.4	4166.8	4568.2	4068.6	3094.2	1677.8	728.1
80°	221.6	226.0	277.3	410.3	968.7	2416.1	2696.0	2347.1	1365.1	599.6	314.0
82.5°	134.2	135.5	185.5	250.7	533.1	1094.1	1289.7	1018.7	582.5	359.0	184.9
85°	81.7	82.3	112.7	155.1	323.5	378.0	388.1	385.0	341.9	234.9	98.8
87.5°	39.3	40.5	58.2	73.4	127.3	117.1	110.8	128.5	161.5	126.6	42.4
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°	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8	1187.8
2.5°	1186.5	1184.6	1180.2	1178.3	1177.0	1177.7	1177.0	1177.0	1177.7	1177.7	1177.7
5°	1192.2	1189.1	1182.1	1182.1	1185.9	1194.8	1203.0	1209.3	1216.3	1215.6	1215.6
7.5°	1216.9	1211.2	1203.0	1205.5	1215.0	1228.9	1243.5	1257.4	1271.4	1272.6	1272.0
10°	1253.0	1247.3	1238.4	1241.6	1256.8	1277.7	1296.1	1316.3	1331.5	1335.9	1334.7
12.5°	1294.2	1282.8	1275.2	1284.0	1308.1	1335.9	1353.7	1368.9	1379.6	1386.0	1383.4
15°	1335.9	1325.2	1316.3	1334.7	1363.8	1389.8	1398.6	1401.2	1403.1	1409.4	1408.1
17.5°	1376.5	1361.9	1358.7	1382.8	1410.7	1422.1	1417.0	1406.2	1398.0	1403.1	1402.4
20°	1412.6	1401.2	1399.9	1424.0	1434.7	1424.0	1402.4	1383.4	1368.9	1370.1	1369.5
22.5°	1446.7	1437.9	1439.2	1449.3	1432.2	1395.5	1360.0	1334.0	1318.2	1321.4	1323.3
25°	1484.7	1475.9	1479.0	1462.6	1406.2	1342.3	1291.0	1268.8	1262.5	1268.8	1273.3
27.5°	1534.1	1528.4	1526.5	1463.2	1360.0	1263.8	1205.5	1197.3	1203.0	1216.9	1223.9
30°	1587.3	1587.3	1577.2	1452.4	1296.7	1169.4	1118.8	1120.0	1139.7	1159.3	1166.3
32.5°	1638.6	1649.4	1617.7	1423.3	1215.0	1077.6	1039.0	1040.3	1057.4	1081.4	1087.8
35°	1681.0	1712.0	1652.5	1370.1	1118.8	1000.4	971.3	954.2	954.8	973.2	978.2
37.5°	1739.3	1796.9	1672.8	1291.0	1016.2	934.5	901.6	871.8	852.2	844.6	844.6
40°	1840.6	1925.4	1677.8	1173.9	919.3	871.8	825.0	789.5	751.5	717.4	711.0
42.5°	2012.2	2119.2	1667.7	1039.0	832.0	802.8	757.2	713.6	661.0	612.9	609.1
45°	2316.1	2371.1	1640.5	899.1	754.1	736.4	692.0	644.5	588.8	545.8	542.6
47.5°	2803.0	2725.1	1604.4	775.0	683.2	678.1	643.9	588.8	533.1	503.4	500.2
50°	3514.0	3282.3	1599.3	685.1	626.2	628.7	600.9	550.2	501.5	476.8	473.0
52.5°	4370.0	3955.3	1632.9	621.8	576.2	585.7	571.7	524.9	481.8	460.9	457.1
55°	5200.7	4560.6	1653.2	572.4	529.3	547.0	548.9	509.7	470.4	449.5	447.0
57.5°	5875.0	5016.5	1563.2	527.4	488.8	516.0	529.9	500.8	464.7	448.9	446.4
60°	6344.2	5231.7	1307.5	487.5	459.0	491.3	523.0	501.5	478.7	480.6	481.8
62.5°	6493.6	5136.1	980.8	457.8	438.8	483.1	534.4	527.4	504.0	518.6	521.1
65°	6246.0	4741.0	711.0	434.3	421.0	488.8	568.6	546.4	495.1	505.9	505.9
67.5°	5417.2	4084.5	553.4	412.8	400.8	499.6	602.8	544.5	474.2	486.9	475.5
70°	4297.2	3159.4	460.9	388.8	379.3	483.7	605.9	524.9	449.5	452.1	430.5
72.5°	2851.7	2077.4	396.4	366.0	346.3	435.0	580.0	499.6	425.5	410.9	389.4
75°	1397.4	1035.8	345.7	337.5	303.3	378.6	544.5	475.5	399.5	376.7	364.7
77.5°	541.3	440.7	295.0	301.4	264.0	333.7	497.7	441.3	365.3	334.3	324.8
80°	262.8	250.1	241.9	251.4	217.2	284.3	454.6	411.5	333.7	299.5	285.6
82.5°	163.4	154.5	185.5	195.6	167.2	259.6	431.2	386.2	293.8	248.2	236.8
85°	82.9	88.6	124.1	133.6	119.7	206.4	355.2	290.0	212.1	176.0	177.3
87.5°	31.7	42.4	65.2	70.3	63.9	108.9	195.6	169.1	136.1	92.4	85.5
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)