

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: P528060

Luminaire Tested: **GALN-SA3A-760-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528060
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-760-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11996 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

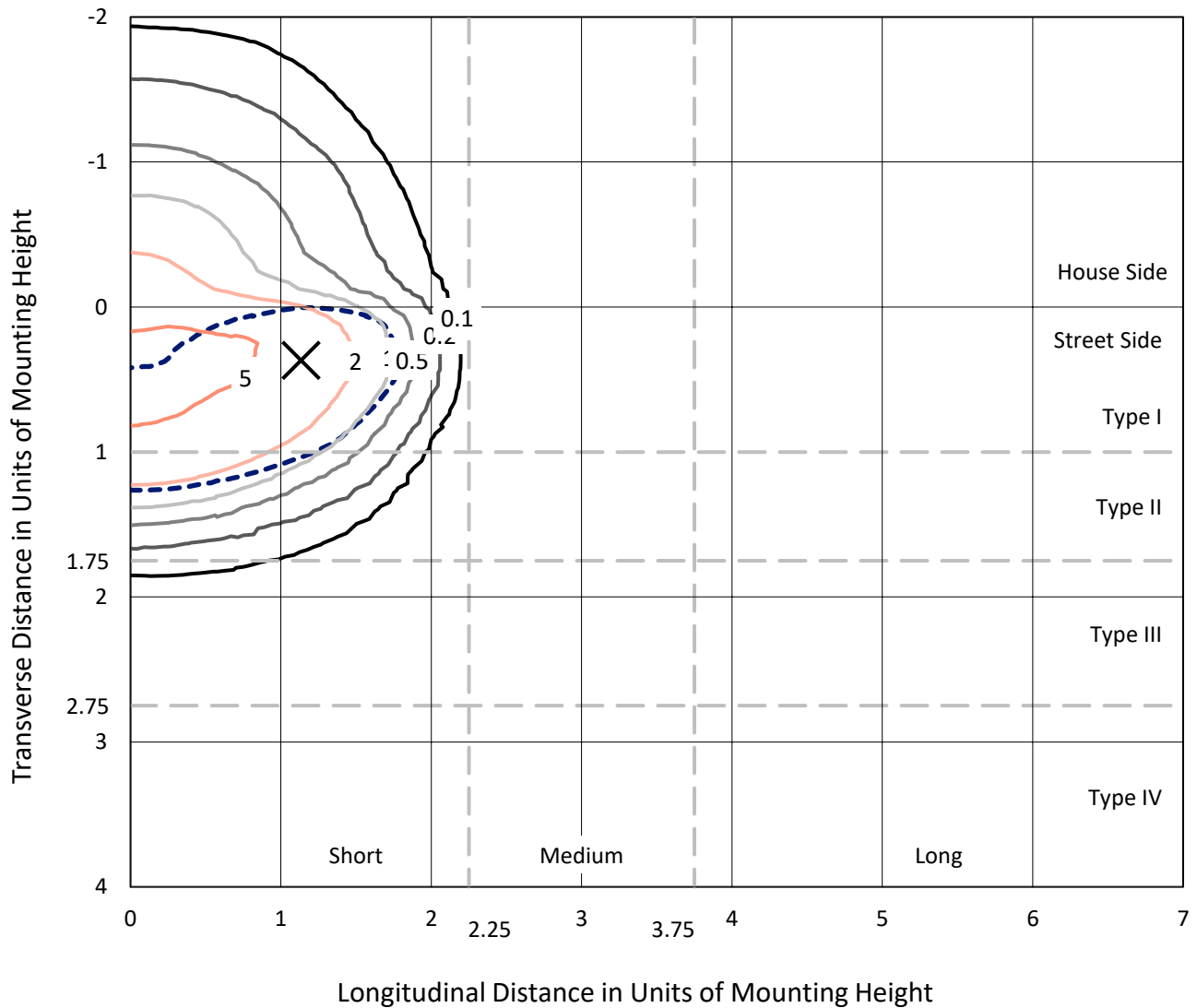
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

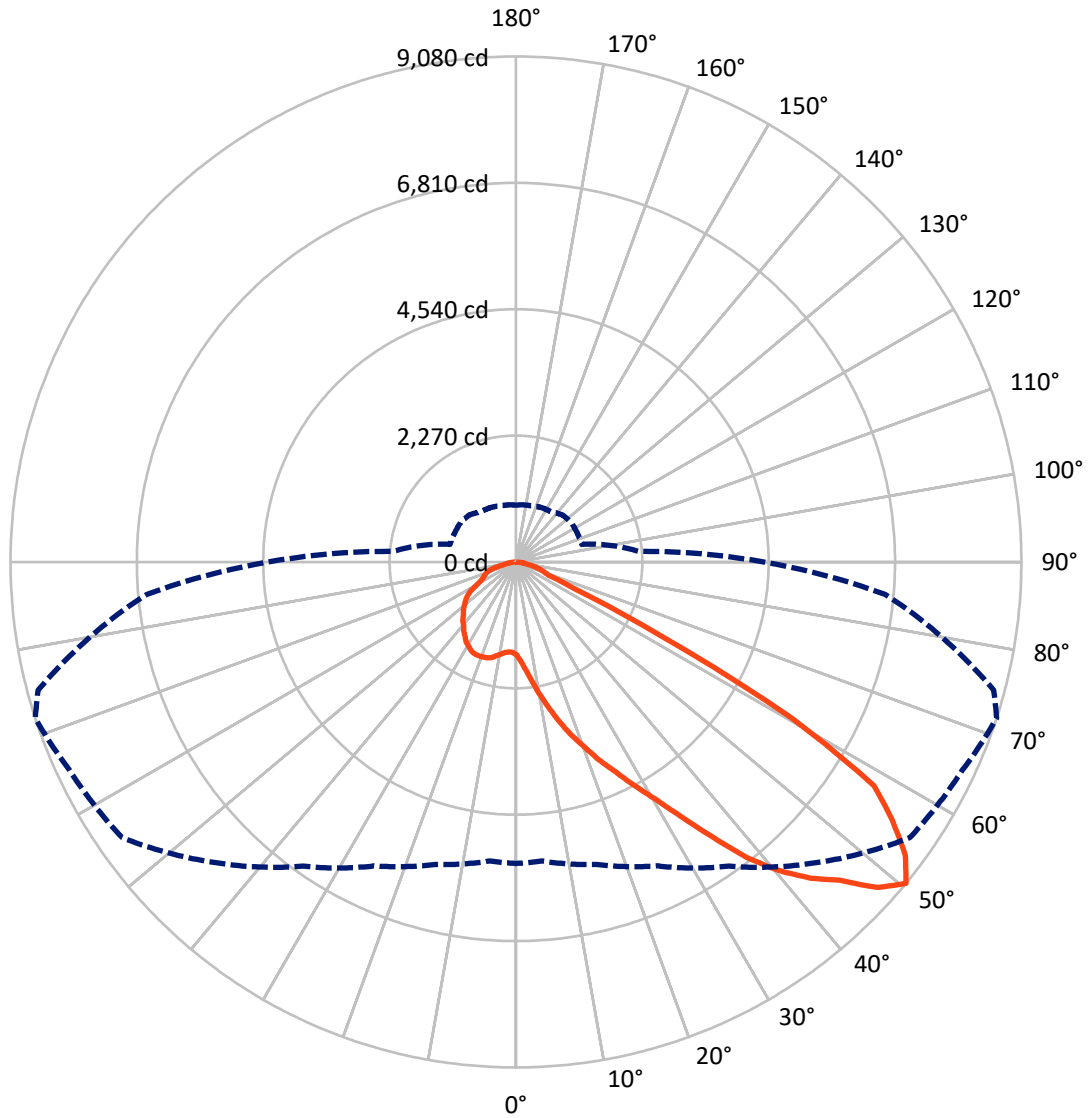
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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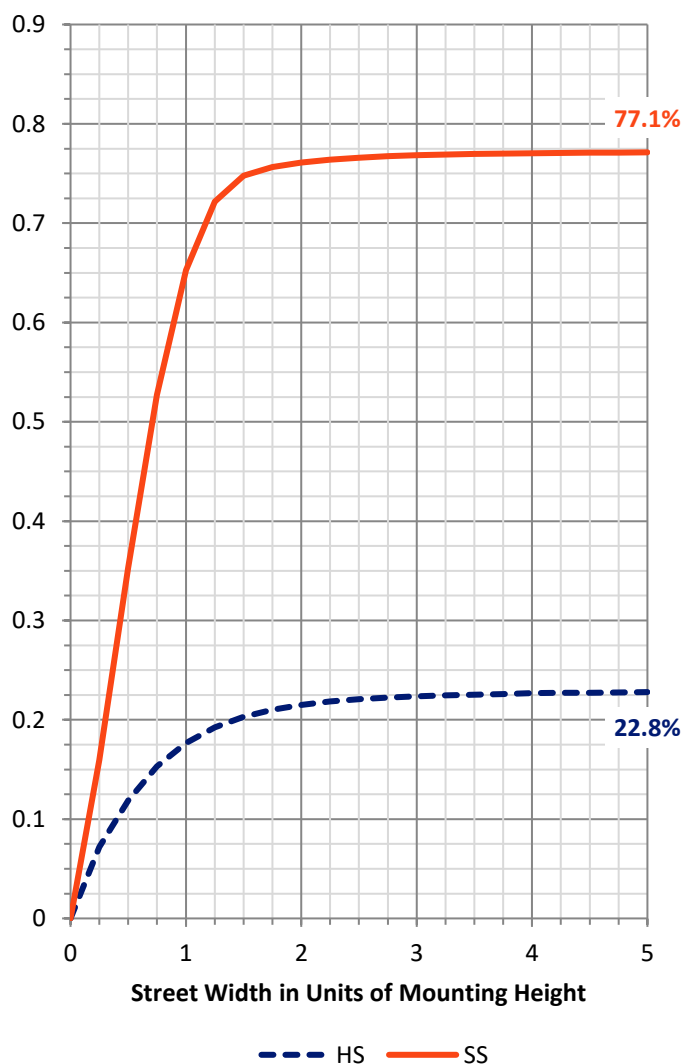
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2748.3	0.0	2748.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	9247.6	0.0	9247.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	11996.0	0.0	11996.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.4	1.6
10°-20°	734.3	6.1
20°-30°	1423.8	11.9
30°-40°	2358.7	19.7
40°-50°	3300.4	27.5
50°-60°	2784.3	23.2
60°-70°	848.6	7.1
70°-80°	297.7	2.5
80°-90°	51.8	0.4
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°	11996.0	100.0
0°-180°	11996.0	100.0

Coefficient of Utilization

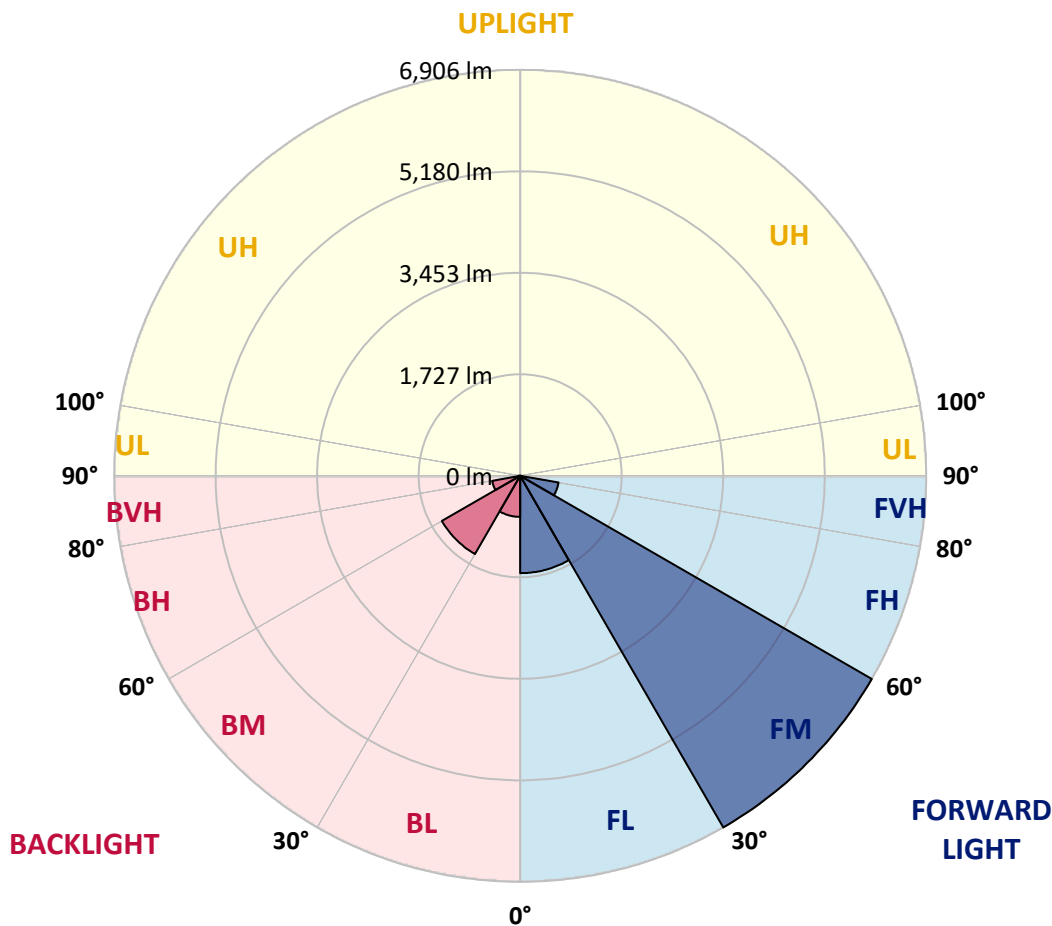


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1655.9	13.8			
FM (30°-60°)	6906.4	57.6			
FH (60°-80°)	662.2	5.5			G1/1800
FVH (80°-90°)	23.2	0.2			G1/100
BL (0°-30°)	698.6	5.8	B2/1000		
BM (30°-60°)	1536.9	12.8	B2/2500		
BH (60°-80°)	484.2	4.0	B1/500		G1/500
BVH (80°-90°)	28.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1669.9	1669.9	1669.9	1669.9	1669.9	1669.9	1669.9	1669.9	1669.9	1669.9	1669.9
2.5°	2147.9	2134.6	2094.5	2081.1	2033.6	1947.5	1917.8	1830.3	1793.2	1759.0	1718.9
5°	2716.4	2654.1	2649.6	2573.9	2464.1	2400.3	2210.3	2082.6	1965.3	1906.0	1796.1
7.5°	3078.6	3080.1	3080.1	3017.8	2930.2	2768.4	2597.7	2367.6	2191.0	2103.4	1916.4
10°	3423.0	3393.3	3377.0	3371.1	3311.7	3154.3	2971.8	2686.8	2444.8	2342.4	2006.9
12.5°	3666.5	3641.2	3678.3	3659.0	3616.0	3513.6	3341.4	3016.3	2713.5	2575.4	2152.4
15°	3782.2	3800.1	3829.7	3883.2	3863.9	3825.3	3635.3	3354.7	3002.9	2847.1	2281.5
17.5°	3960.4	3911.4	3947.0	4013.8	4067.2	4049.4	3941.1	3599.7	3289.4	3097.9	2455.2
20°	4085.1	4056.9	4074.7	4151.9	4191.9	4292.9	4236.5	3920.3	3564.0	3362.2	2660.0
22.5°	4441.3	4399.7	4341.9	4353.7	4368.6	4439.8	4453.2	4272.1	3883.2	3669.4	2854.5
25°	4880.7	4842.1	4773.8	4704.1	4661.0	4647.6	4693.7	4548.2	4189.0	3967.8	3063.8
27.5°	5364.6	5299.3	5256.2	5112.3	4996.5	4978.7	4956.4	4877.7	4551.2	4312.2	3299.8
30°	5835.2	5783.2	5725.3	5495.2	5375.0	5355.7	5245.9	5268.1	4944.5	4678.8	3567.0
32.5°	6191.4	6195.9	6063.8	5890.1	5777.3	5674.8	5634.8	5698.6	5449.2	5235.5	3865.4
35°	6479.4	6492.7	6366.6	6209.2	6087.5	6158.8	6140.9	6170.6	6051.9	5790.6	4212.7
37.5°	6759.9	6693.1	6558.1	6482.4	6418.5	6535.8	6687.2	6712.4	6734.7	6427.4	4616.5
40°	6806.0	6811.9	6733.2	6786.7	6706.5	6883.1	7234.9	7202.3	7292.8	7024.2	5054.4
42.5°	6740.6	6754.0	6785.2	6860.9	7053.8	7266.1	7788.6	7655.0	7764.9	7525.9	5480.4
45°	6633.8	6578.8	6617.4	6905.4	7239.4	7711.4	8294.8	8190.9	8155.3	7954.9	5988.1
47.5°	6123.1	6179.5	6299.8	6654.5	7156.3	7788.6	8654.0	8630.3	8737.2	8596.1	6449.7
50°	5415.1	5392.8	5624.4	6023.7	6670.9	7637.2	8634.7	8850.0	9080.1	8884.1	6656.0
52.5°	4055.4	4174.1	4373.0	4868.8	5792.1	6811.9	8213.2	8572.4	8759.4	8717.9	6489.8
55°	2563.6	2599.2	2719.4	3308.7	4140.0	5467.0	7040.5	7873.2	8207.2	8363.1	6336.9
57.5°	1245.4	1178.6	1325.6	1799.1	2391.4	3676.8	5429.9	6857.9	7583.8	7865.8	6004.4
60°	650.2	675.4	733.3	902.5	1236.5	1908.9	3384.4	4570.5	5679.3	6112.7	4551.2
62.5°	538.8	547.7	586.3	670.9	822.4	1098.5	1727.8	2228.1	2896.1	3286.5	2588.8
65°	457.2	461.6	503.2	559.6	656.1	773.4	889.2	930.7	1126.7	1156.3	920.3
67.5°	381.5	385.9	430.5	483.9	546.3	577.4	607.1	604.1	626.4	617.5	616.0
70°	293.9	298.4	344.4	400.8	432.0	414.1	506.2	527.0	535.9	543.3	555.2
72.5°	212.3	221.2	256.8	296.9	280.6	322.1	417.1	448.3	460.2	464.6	479.5
75°	154.4	157.3	166.3	154.4	178.1	224.1	293.9	332.5	347.3	351.8	374.1
77.5°	68.3	69.8	71.3	89.1	114.3	139.5	175.2	206.3	227.1	233.1	239.0
80°	35.6	37.1	46.0	60.9	81.6	102.4	127.7	145.5	158.8	160.3	166.3
82.5°	22.3	23.8	32.7	43.0	57.9	75.7	93.5	108.4	118.8	120.2	121.7
85°	10.4	13.4	19.3	26.7	38.6	49.0	50.5	43.0	46.0	47.5	44.5
87.5°	3.0	4.5	5.9	4.5	5.9	5.9	7.4	8.9	8.9	8.9	10.4
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°	1669.9	1669.9	1669.9	1669.9	1669.9	1669.9	1669.9	1669.9	1669.9	1669.9	1669.9
2.5°	1696.7	1683.3	1631.4	1612.1	1561.6	1570.5	1543.8	1542.3	1536.3	1534.9	1533.4
5°	1738.2	1696.7	1634.3	1586.8	1558.6	1555.6	1536.3	1536.3	1542.3	1546.7	1536.3
7.5°	1806.5	1759.0	1653.6	1609.1	1583.9	1579.4	1566.0	1555.6	1569.0	1564.6	1552.7
10°	1885.2	1802.1	1690.7	1652.1	1610.6	1600.2	1600.2	1604.6	1582.4	1589.8	1577.9
12.5°	1972.8	1861.4	1738.2	1693.7	1644.7	1638.8	1635.8	1603.1	1615.0	1609.1	1579.4
15°	2084.1	1929.7	1799.1	1723.4	1681.8	1655.1	1616.5	1610.6	1603.1	1588.3	1574.9
17.5°	2204.3	2003.9	1827.3	1732.3	1669.9	1650.6	1621.0	1589.8	1567.5	1570.5	1560.1
20°	2306.8	2072.2	1837.7	1741.2	1661.0	1623.9	1577.9	1558.6	1534.9	1533.4	1531.9
22.5°	2428.5	2164.2	1852.5	1717.4	1634.3	1595.7	1564.6	1530.4	1514.1	1493.3	1503.7
25°	2573.9	2199.9	1855.5	1704.1	1615.0	1546.7	1530.4	1493.3	1487.4	1457.7	1463.6
27.5°	2679.3	2219.2	1831.7	1662.5	1570.5	1518.5	1488.8	1462.1	1451.7	1429.5	1423.5
30°	2820.4	2248.9	1781.3	1610.6	1526.0	1468.1	1450.3	1444.3	1414.6	1390.9	1387.9
32.5°	2980.7	2268.2	1748.6	1557.1	1479.9	1435.4	1444.3	1416.1	1379.0	1358.2	1352.3
35°	3108.3	2275.6	1667.0	1496.3	1448.8	1420.6	1410.2	1404.2	1350.8	1331.5	1316.7
37.5°	3302.8	2259.3	1598.7	1453.2	1414.6	1404.2	1395.3	1355.3	1294.4	1266.2	1245.4
40°	3529.9	2254.8	1511.1	1392.4	1382.0	1393.8	1367.1	1304.8	1220.2	1189.0	1174.2
42.5°	3748.1	2286.0	1456.2	1359.7	1346.3	1350.8	1313.7	1220.2	1178.6	1160.8	1137.0
45°	4113.3	2351.3	1365.6	1309.2	1303.3	1300.3	1255.8	1157.8	1134.1	1111.8	1107.4
47.5°	4442.8	2308.2	1307.8	1257.3	1263.2	1246.9	1151.9	1120.7	1094.0	1071.7	1064.3
50°	4462.1	2205.8	1226.1	1217.2	1218.7	1190.5	1099.9	1079.2	1045.0	1030.2	1019.8
52.5°	4361.2	2038.1	1150.4	1153.4	1157.8	1111.8	1036.1	1021.3	993.1	972.3	966.3
55°	4077.6	1776.8	1076.2	1088.1	1099.9	1012.4	988.6	951.5	929.2	899.5	901.0
57.5°	3592.2	1431.0	972.3	991.6	1016.8	920.3	902.5	856.5	823.8	800.1	797.1
60°	2407.7	1018.3	816.4	823.8	880.2	841.7	840.2	794.2	749.6	728.8	717.0
62.5°	1420.6	777.8	705.1	697.7	696.2	718.4	755.6	739.2	681.3	641.3	653.1
65°	743.7	672.4	656.1	630.9	616.0	610.1	638.3	645.7	607.1	564.1	561.1
67.5°	624.9	624.9	611.6	602.7	581.9	556.6	538.8	515.1	509.1	497.3	482.4
70°	568.5	583.4	578.9	558.1	540.3	512.1	466.1	427.5	390.4	377.0	385.9
72.5°	495.8	510.6	510.6	500.2	476.5	433.4	388.9	344.4	313.2	289.5	286.5
75°	381.5	388.9	406.7	394.8	363.7	337.0	290.9	244.9	215.2	193.0	188.5
77.5°	243.4	255.3	255.3	253.8	231.6	206.3	176.6	144.0	121.7	105.4	100.9
80°	161.8	169.2	175.2	169.2	154.4	135.1	112.8	90.5	74.2	60.9	57.9
82.5°	118.8	127.7	132.1	126.2	111.3	96.5	80.2	63.8	47.5	37.1	34.1
85°	46.0	47.5	53.4	63.8	62.3	60.9	49.0	35.6	26.7	19.3	17.8
87.5°	11.9	10.4	11.9	11.9	10.4	8.9	8.9	8.9	8.9	4.5	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

(END OF REPORT)