

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: P453923

Luminaire Tested: **GALN-SA5A-727-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453923
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14062 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

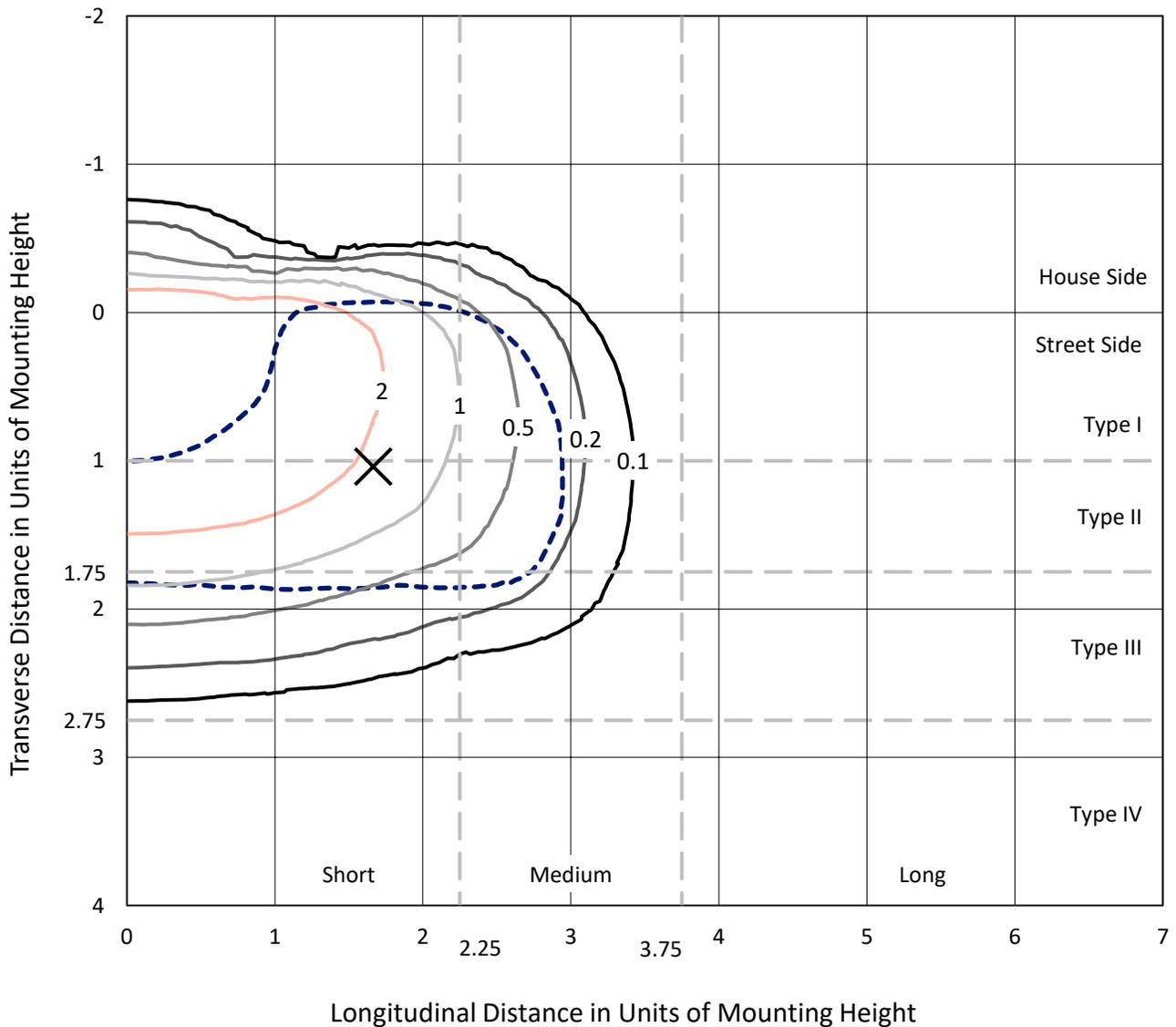
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

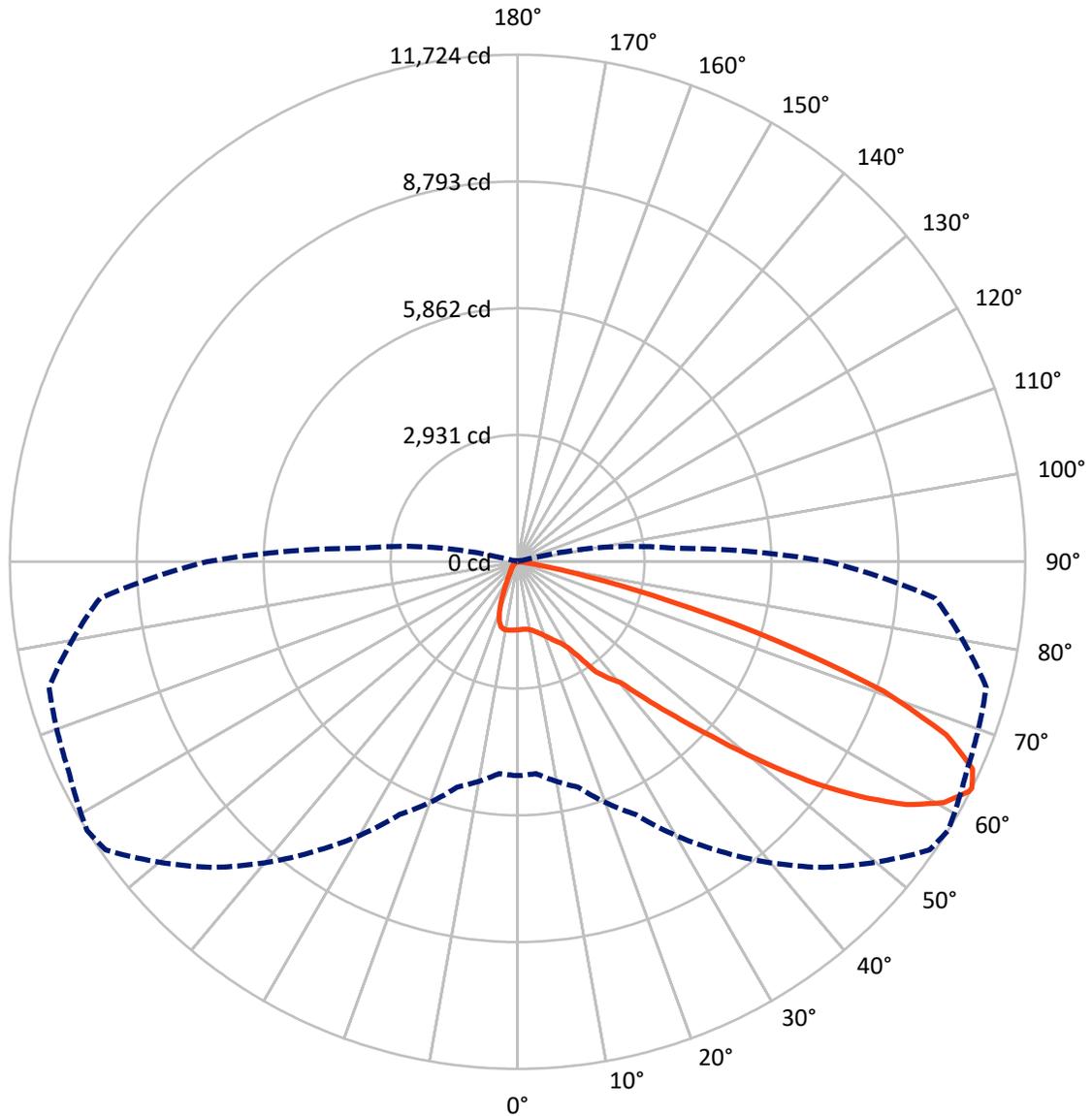
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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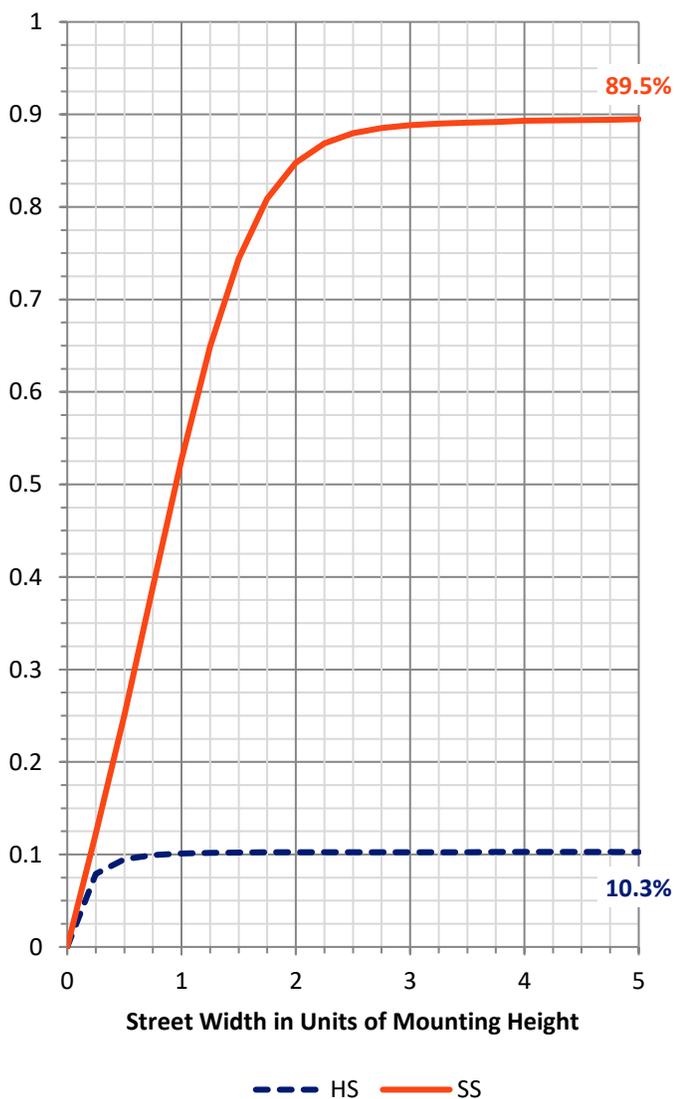
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1456.0	0.0	1456.0
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	12606.0	0.0	12606.0
	% Fixture	89.6	0.0	89.6
Total	Lumens	14062.0	0.0	14062.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.4	1.0
10°-20°	401.4	2.9
20°-30°	696.6	5.0
30°-40°	1280.2	9.1
40°-50°	2409.9	17.1
50°-60°	4121.9	29.3
60°-70°	3946.7	28.1
70°-80°	1006.4	7.2
80°-90°	51.5	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°	14062.0	100.0
0°-180°	14062.0	100.0

Coefficient of Utilization



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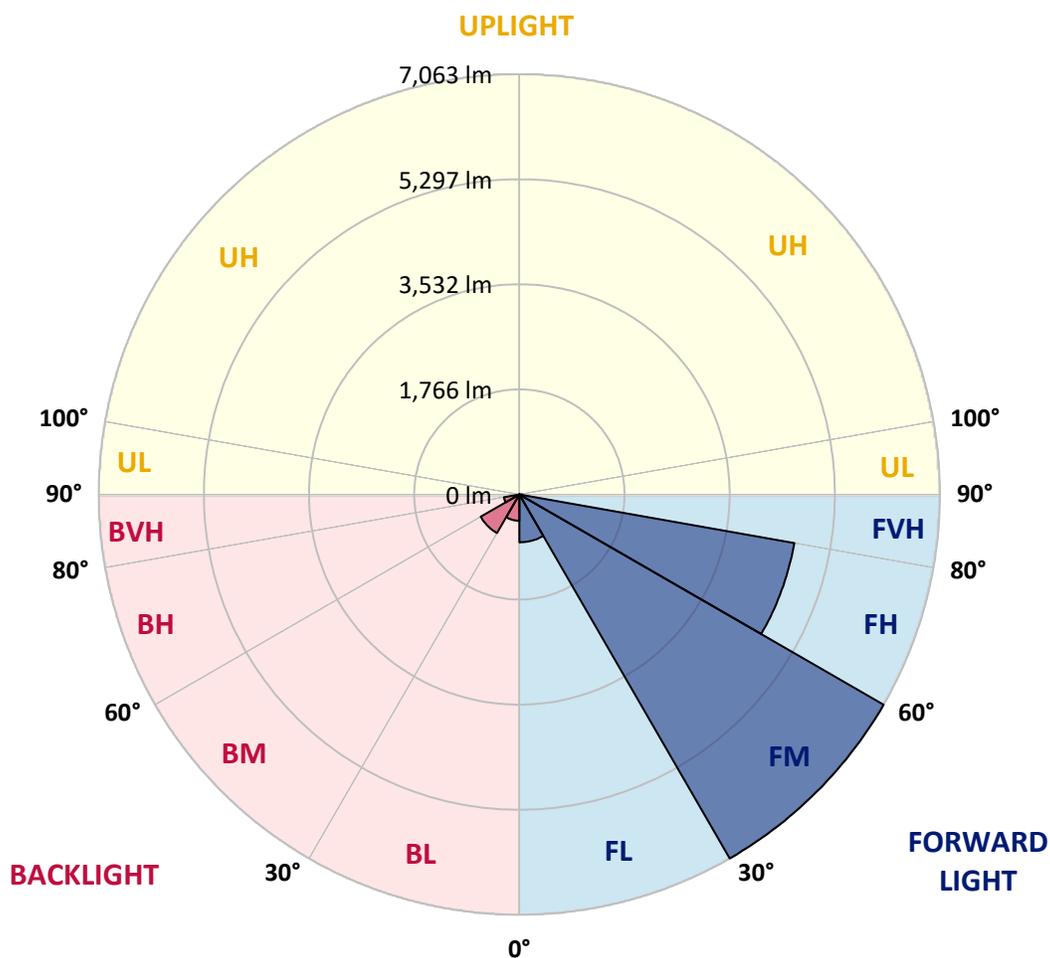
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	803.8	5.7			
FM (30°-60°)	7063.1	50.2			
FH (60°-80°)	4689.6	33.3			G2/5000
FVH (80°-90°)	49.5	0.4			G1/100
BL (0°-30°)	441.6	3.1	B1/500		
BM (30°-60°)	748.9	5.3	B1/1000		
BH (60°-80°)	263.6	1.9	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
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°	1574.3	1574.3	1574.3	1574.3	1574.3	1574.3	1574.3	1574.3	1574.3	1574.3	1574.3
2.5°	1535.1	1540.4	1545.7	1547.8	1555.2	1562.6	1567.9	1566.9	1575.4	1579.6	1579.6
5°	1473.7	1473.7	1487.5	1500.2	1521.4	1542.5	1562.6	1566.9	1582.8	1597.6	1602.9
7.5°	1421.8	1425.0	1435.6	1458.9	1487.5	1524.5	1564.8	1574.3	1601.8	1634.6	1648.4
10°	1397.5	1399.6	1413.4	1437.7	1473.7	1524.5	1580.6	1598.6	1641.0	1692.9	1711.9
12.5°	1392.2	1395.4	1409.1	1436.7	1478.0	1539.4	1615.6	1634.6	1696.0	1762.7	1791.3
15°	1401.7	1403.8	1417.6	1447.3	1492.8	1565.8	1662.2	1688.6	1761.7	1839.0	1876.0
17.5°	1435.6	1433.5	1443.0	1467.4	1518.2	1598.6	1718.3	1750.0	1835.8	1941.7	1966.0
20°	1579.6	1565.8	1557.4	1536.2	1556.3	1645.2	1786.0	1832.6	1938.5	2046.5	2063.4
22.5°	1889.8	1859.1	1798.7	1716.2	1652.6	1708.8	1867.6	1921.6	2058.1	2164.0	2164.0
25°	2284.7	2245.5	2185.2	2005.2	1849.6	1813.6	1959.7	2027.4	2188.3	2295.3	2260.3
27.5°	2779.1	2748.4	2630.9	2421.3	2183.1	1996.7	2066.6	2129.1	2303.7	2432.9	2359.9
30°	3181.4	3166.6	3070.2	2882.9	2620.3	2348.2	2265.6	2306.9	2457.3	2606.5	2531.4
32.5°	3521.3	3521.3	3422.8	3248.1	3002.5	2761.1	2603.4	2633.0	2777.0	2949.6	2809.8
35°	3895.0	3882.3	3802.9	3636.7	3361.4	3148.6	3084.0	3124.2	3254.5	3382.6	3038.5
37.5°	4287.8	4283.5	4200.9	4040.0	3815.6	3547.7	3396.3	3406.9	3473.6	3552.0	3306.3
40°	4714.4	4720.8	4612.8	4513.3	4301.5	4027.3	3737.2	3670.5	3733.0	3954.3	3800.8
42.5°	5218.4	5203.5	5157.0	5021.4	4851.0	4686.9	4338.6	4314.2	4369.3	4606.4	4440.2
45°	5803.8	5825.0	5744.5	5669.4	5555.0	5418.5	5127.3	5085.0	5145.3	5513.7	5277.6
47.5°	6390.3	6370.2	6422.1	6408.3	6469.8	6368.1	6110.8	6024.0	6169.1	6518.5	6171.2
50°	6837.1	6859.4	6967.3	7125.1	7388.7	7445.9	7199.2	7169.6	7234.1	7458.6	6970.5
52.5°	7127.2	7201.3	7370.7	7776.2	8251.6	8621.0	8433.6	8417.8	8391.3	8451.6	7734.9
55°	7316.7	7391.9	7613.2	8210.3	9028.6	9628.9	9638.5	9570.7	9396.0	9352.6	8449.5
57.5°	7200.3	7215.1	7530.6	8328.8	9459.5	10347.8	10659.0	10591.3	10268.4	10104.3	9080.5
60°	6471.9	6502.6	6941.9	7879.9	9272.1	10582.8	11335.6	11304.9	10951.3	10766.0	9571.8
62.5°	5181.3	5270.2	5722.3	6768.3	8400.8	10186.9	11609.8	11696.6	11421.3	11166.2	9726.3
63°	4944.2	4915.6	5393.0	6444.3	8170.0	9991.0	11614.0	11724.1	11442.5	11204.3	9684.0
65°	3659.9	3745.7	4055.9	5081.8	6799.0	9079.5	11352.5	11547.3	11364.1	11035.9	9215.0
67.5°	2054.9	2050.7	2393.7	3325.4	4758.9	7121.9	10265.2	10677.0	10638.9	9903.1	7638.6
70°	1005.8	1021.7	1162.5	1723.6	2760.0	4913.5	8530.0	8974.6	8988.4	7778.3	5281.9
72.5°	455.2	462.7	563.2	839.6	1418.7	2616.1	5877.9	6302.5	6224.1	4956.9	2916.7
75°	240.3	256.2	310.2	422.4	683.9	1078.8	3197.3	3608.1	3444.0	2264.6	1073.5
77.5°	177.9	183.2	210.7	268.9	366.3	420.3	1379.5	1641.0	1537.2	819.4	355.7
80°	130.2	134.5	156.7	190.6	230.8	213.9	519.8	596.1	534.6	278.4	109.0
82.5°	79.4	80.5	114.3	141.9	145.0	119.6	171.5	184.2	192.7	156.7	59.3
85°	28.6	36.0	77.3	102.7	85.8	60.3	72.0	79.4	86.8	99.5	34.9
87.5°	3.2	4.2	37.1	49.8	24.4	22.2	26.5	29.6	31.8	37.1	16.9
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°	1574.3	1574.3	1574.3	1574.3	1574.3	1574.3	1574.3	1574.3	1574.3	1574.3	1574.3
2.5°	1583.8	1588.1	1584.9	1579.6	1578.5	1575.4	1569.0	1569.0	1569.0	1571.1	1569.0
5°	1607.1	1610.3	1602.9	1592.3	1580.6	1565.8	1549.9	1540.4	1539.4	1537.2	1531.9
7.5°	1651.6	1655.8	1638.9	1613.5	1581.7	1545.7	1511.8	1480.1	1465.2	1453.6	1453.6
10°	1716.2	1720.4	1686.5	1641.0	1577.5	1504.4	1424.0	1350.9	1293.7	1267.3	1260.9
12.5°	1793.4	1795.6	1739.5	1660.1	1555.2	1414.4	1242.9	1083.1	971.9	921.1	915.8
15°	1878.1	1863.3	1789.2	1667.5	1491.7	1229.2	932.7	736.9	621.5	587.6	600.3
17.5°	1963.9	1936.4	1827.3	1655.8	1348.8	932.7	626.8	502.9	466.9	457.4	457.4
20°	2044.4	2006.2	1854.9	1605.0	1101.1	642.6	464.8	435.1	428.8	422.4	423.5
22.5°	2124.8	2066.6	1879.2	1491.7	820.5	459.5	416.1	406.5	398.1	389.6	388.5
25°	2203.2	2122.7	1888.7	1282.1	559.0	394.9	380.1	367.4	350.4	340.9	338.8
27.5°	2284.7	2190.5	1882.4	1017.4	407.6	353.6	338.8	320.8	300.7	283.7	283.7
30°	2441.4	2319.6	1860.1	731.6	343.0	311.3	292.2	263.6	241.4	224.4	223.4
32.5°	2655.2	2488.0	1783.9	514.5	304.9	274.2	245.6	213.9	190.6	177.9	177.9
35°	2845.8	2657.4	1641.0	379.0	274.2	238.2	203.3	172.6	154.6	146.1	142.9
37.5°	3135.9	2905.1	1444.1	308.1	244.6	206.4	170.5	141.9	127.0	120.7	120.7
40°	3571.0	3207.9	1202.7	270.0	216.0	175.7	141.9	119.6	108.0	100.6	100.6
42.5°	4111.0	3578.4	958.1	242.4	189.5	151.4	118.6	101.6	91.0	85.8	84.7
45°	4790.6	3969.1	737.9	217.0	168.3	129.2	100.6	85.8	75.2	72.0	73.1
47.5°	5500.0	4313.2	571.7	194.8	146.1	109.0	85.8	74.1	66.7	62.5	62.5
50°	6105.6	4550.3	434.1	169.4	129.2	92.1	75.2	66.7	60.3	58.2	57.2
52.5°	6611.6	4619.1	332.4	147.2	113.3	79.4	66.7	60.3	55.1	51.9	51.9
55°	7042.5	4558.8	260.4	123.9	95.3	68.8	59.3	54.0	47.6	44.5	43.4
57.5°	7294.5	4365.0	199.0	102.7	77.3	57.2	51.9	45.5	38.1	32.8	32.8
60°	7421.5	4083.4	152.5	84.7	59.3	45.5	42.3	33.9	26.5	22.2	21.2
62.5°	7269.1	3709.7	115.4	66.7	44.5	33.9	28.6	24.4	16.9	12.7	12.7
63°	7174.8	3601.7	111.2	63.5	41.3	31.8	26.5	22.2	14.8	11.6	10.6
65°	6540.7	3130.6	91.0	50.8	32.8	22.2	18.0	15.9	10.6	5.3	4.2
67.5°	5194.0	2394.8	72.0	38.1	23.3	15.9	10.6	9.5	3.2	0.0	0.0
70°	3511.7	1546.8	56.1	27.5	15.9	9.5	5.3	4.2	1.1	0.0	0.0
72.5°	1831.6	793.0	43.4	20.1	9.5	6.4	3.2	1.1	0.0	0.0	0.0
75°	647.9	270.0	31.8	12.7	6.4	3.2	1.1	0.0	0.0	0.0	0.0
77.5°	195.9	100.6	20.1	9.5	4.2	2.1	0.0	0.0	0.0	0.0	0.0
80°	68.8	37.1	11.6	6.4	3.2	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	33.9	18.0	7.4	5.3	3.2	1.1	0.0	0.0	0.0	0.0	0.0
85°	19.1	11.6	6.4	5.3	3.2	2.1	0.0	0.0	0.0	0.0	0.0
87.5°	13.8	8.5	6.4	5.3	4.2	2.1	1.1	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)