

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: P651918

Luminaire Tested: **GALN-SA5A-840-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651918
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-840-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 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: 14140.6 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

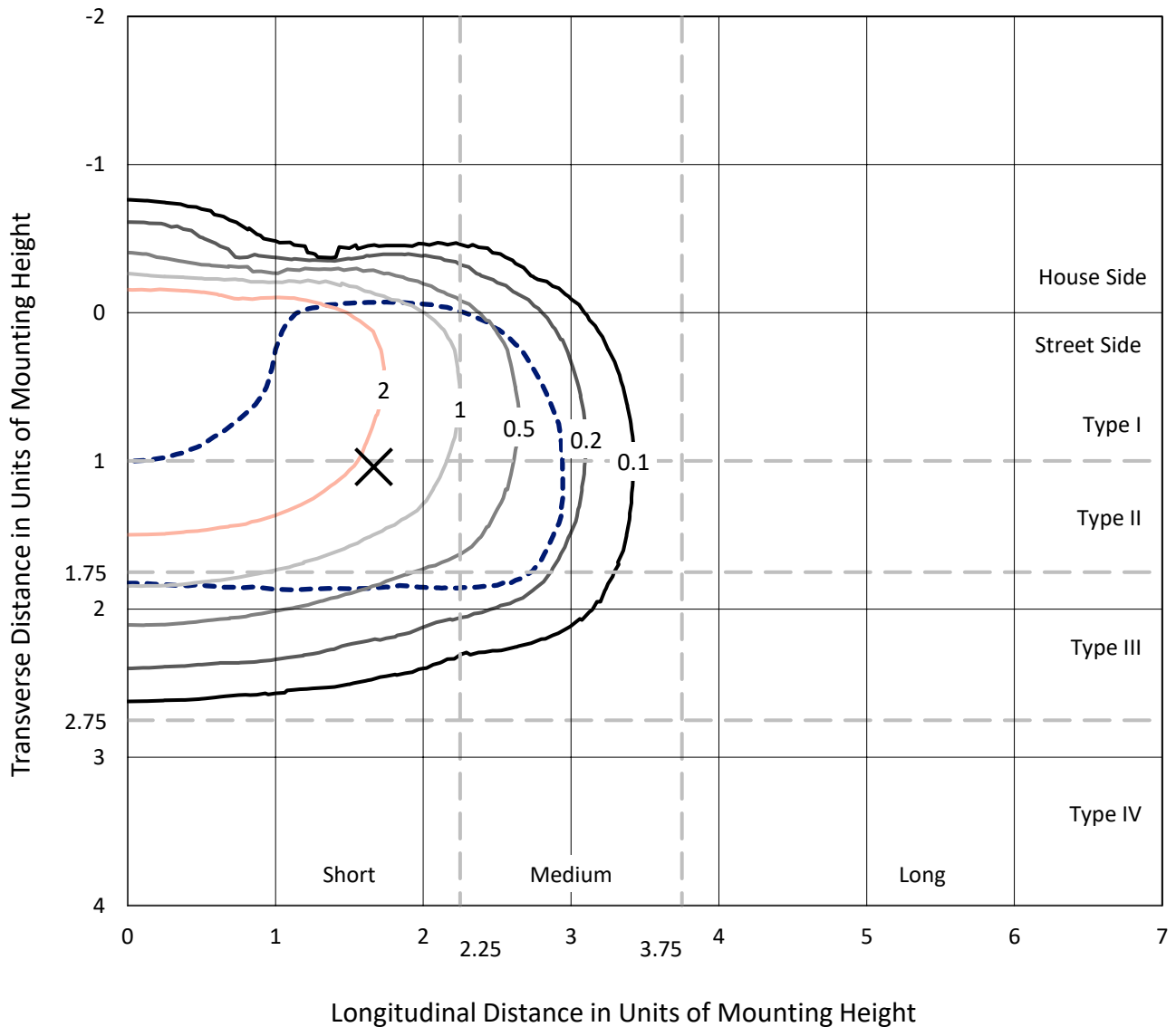
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

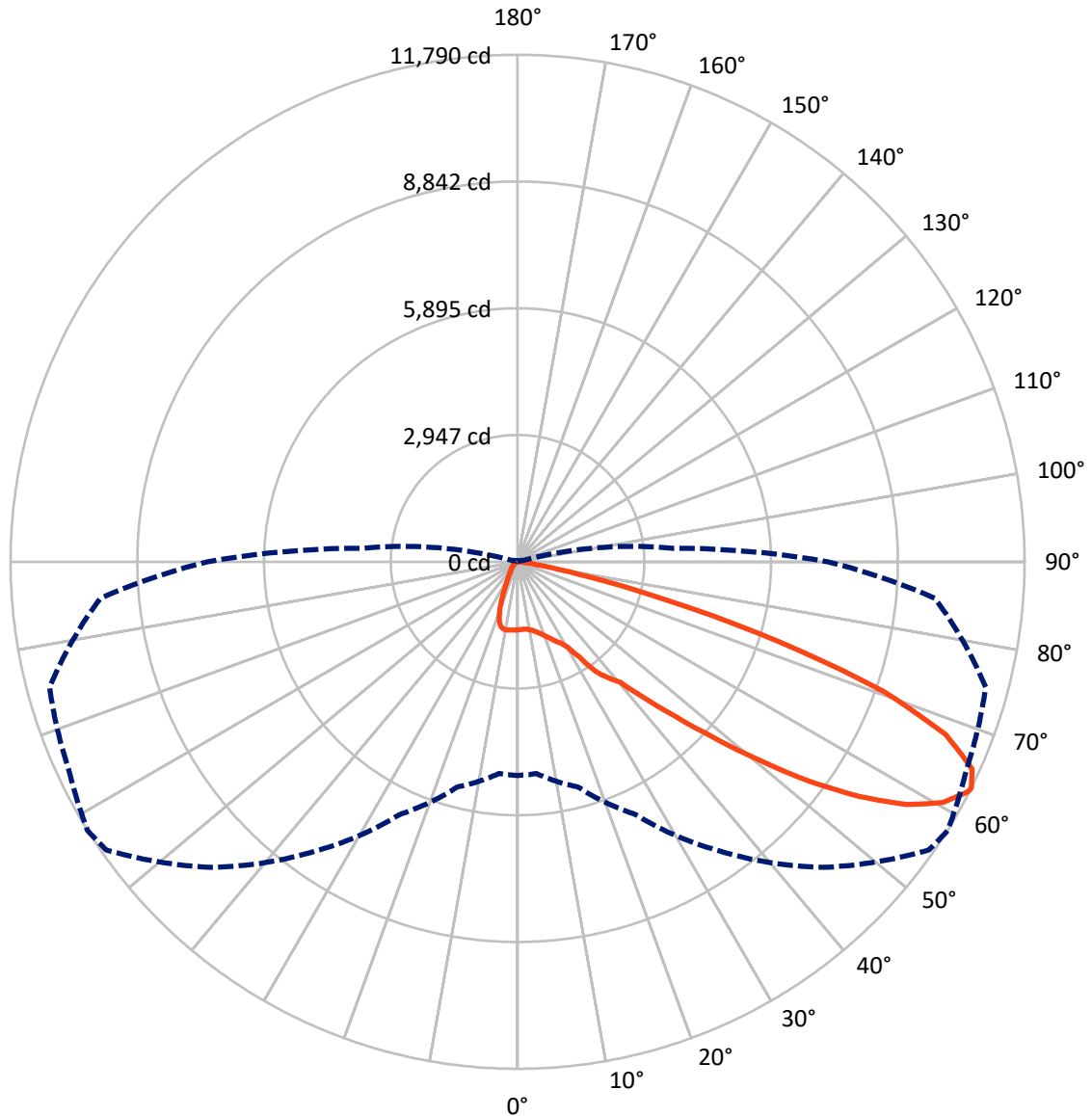
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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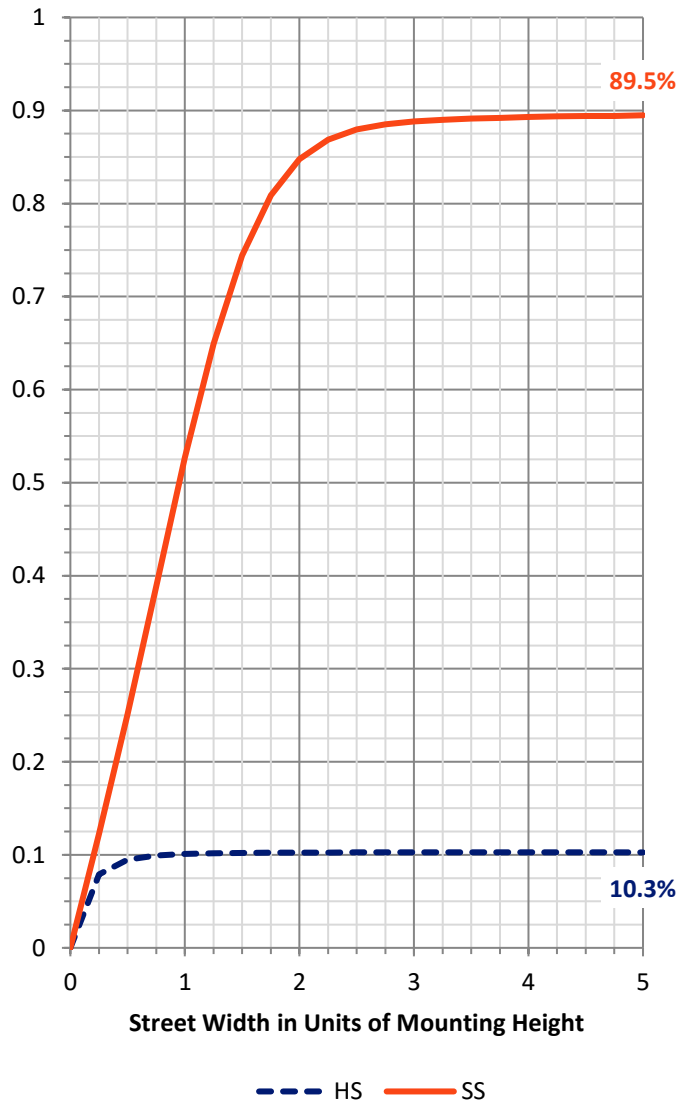
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1464.2	0.0	1464.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	12676.4	0.0	12676.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	14140.6	0.0	14140.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	1.0
10°-20°	403.6	2.9
20°-30°	700.5	5.0
30°-40°	1287.3	9.1
40°-50°	2423.3	17.1
50°-60°	4144.9	29.3
60°-70°	3968.8	28.1
70°-80°	1012.1	7.2
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°	14140.6	100.0
0°-180°	14140.6	100.0

Coefficient of Utilization



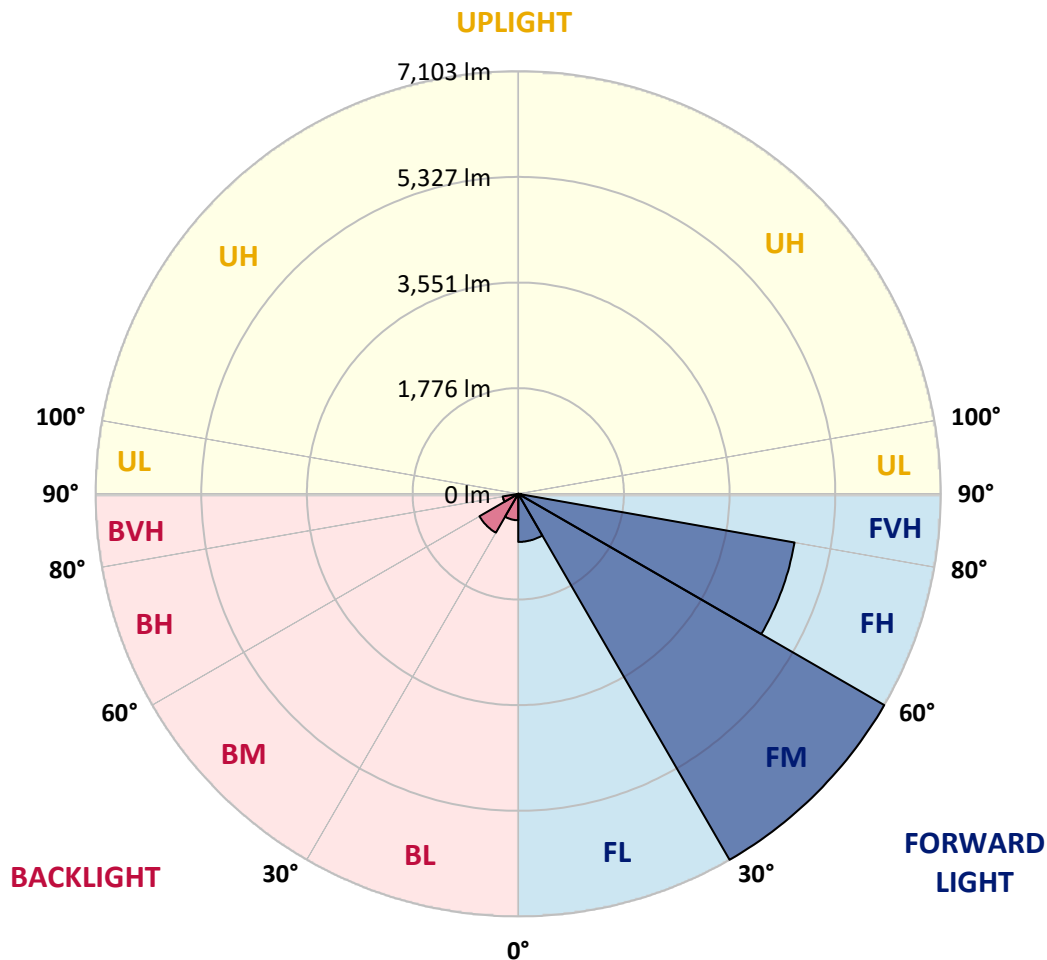
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	808.3	5.7			
FM (30°-60°)	7102.5	50.2			
FH (60°-80°)	4715.8	33.3			G2/5000
FVH (80°-90°)	49.7	0.4			G1/100
BL (0°-30°)	444.0	3.1	B1/500		
BM (30°-60°)	753.1	5.3	B1/1000		
BH (60°-80°)	265.1	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°	1583.1	1583.1	1583.1	1583.1	1583.1	1583.1	1583.1	1583.1	1583.1	1583.1	1583.1
2.5°	1543.7	1549.0	1554.3	1556.4	1563.9	1571.4	1576.7	1575.6	1584.2	1588.4	1588.4
5°	1481.9	1481.9	1495.8	1508.6	1529.9	1551.1	1571.4	1575.6	1591.6	1606.5	1611.9
7.5°	1429.8	1433.0	1443.7	1467.0	1495.8	1533.1	1573.5	1583.1	1610.8	1643.7	1657.6
10°	1405.3	1407.4	1421.3	1445.8	1481.9	1533.1	1589.5	1607.6	1650.1	1702.4	1721.5
12.5°	1400.0	1403.2	1417.0	1444.7	1486.2	1547.9	1624.6	1643.7	1705.5	1772.6	1801.3
15°	1409.6	1411.7	1425.5	1455.4	1501.1	1574.6	1671.5	1698.1	1771.6	1849.3	1886.5
17.5°	1443.7	1441.5	1451.1	1475.5	1526.7	1607.6	1727.9	1759.8	1846.1	1952.5	1977.0
20°	1588.4	1574.6	1566.0	1544.7	1565.0	1654.4	1796.0	1842.9	1949.4	2057.9	2074.9
22.5°	1900.3	1869.5	1808.8	1725.7	1661.9	1718.3	1878.0	1932.3	2069.6	2176.1	2176.1
25°	2297.4	2258.1	2197.4	2016.4	1859.9	1823.7	1970.6	2038.8	2200.6	2308.1	2273.0
27.5°	2794.6	2763.8	2645.6	2434.8	2195.3	2007.9	2078.1	2140.9	2316.6	2446.5	2373.0
30°	3199.2	3184.3	3087.4	2898.9	2634.9	2361.4	2278.3	2319.8	2471.0	2621.1	2545.5
32.5°	3540.9	3540.9	3442.0	3266.3	3019.3	2776.6	2617.9	2647.7	2792.5	2966.0	2825.5
35°	3916.7	3904.0	3824.1	3657.0	3380.1	3166.2	3101.3	3141.7	3272.7	3401.4	3055.4
37.5°	4311.7	4307.4	4224.4	4062.6	3836.9	3567.5	3415.3	3426.0	3493.0	3571.8	3324.8
40°	4740.7	4747.1	4638.5	4538.5	4325.5	4049.8	3758.1	3691.1	3753.9	3976.3	3822.0
42.5°	5247.5	5232.6	5185.8	5049.5	4878.1	4713.0	4362.9	4338.3	4393.7	4632.1	4465.0
45°	5836.3	5857.6	5776.7	5701.1	5586.1	5448.8	5156.0	5113.4	5174.1	5544.5	5307.1
47.5°	6426.1	6405.8	6458.0	6444.2	6505.9	6403.7	6145.0	6057.7	6203.6	6554.8	6205.7
50°	6875.3	6897.7	7006.3	7164.9	7430.0	7487.5	7239.4	7209.6	7274.6	7500.3	7009.5
52.5°	7167.0	7241.5	7411.9	7819.6	8297.6	8669.2	8480.8	8464.8	8438.2	8498.9	7778.2
55°	7357.6	7433.2	7655.7	8256.1	9079.1	9682.8	9692.3	9624.2	9448.6	9404.9	8496.7
57.5°	7240.5	7255.4	7572.6	8375.4	9512.4	10405.6	10718.6	10650.5	10325.8	10160.7	9131.2
60°	6508.0	6538.9	6980.7	7924.0	9323.9	10641.9	11398.9	11368.0	11012.5	10826.1	9625.2
62.5°	5210.2	5299.6	5754.3	6806.1	8447.8	10243.8	11674.7	11762.0	11485.1	11228.5	9780.7
63°	4971.7	4943.1	5423.2	6480.3	8215.6	10046.8	11678.9	11789.6	11506.4	11266.9	9738.1
65°	3680.4	3766.7	4078.6	5110.2	6837.0	9130.2	11415.9	11611.9	11427.7	11097.6	9266.5
67.5°	2066.4	2062.1	2407.1	3344.0	4785.5	7161.7	10322.6	10736.7	10698.4	9958.4	7681.3
70°	1011.4	1027.4	1169.0	1733.2	2775.5	4940.9	8577.7	9024.8	9038.6	7821.8	5311.4
72.5°	457.8	465.2	566.4	844.3	1426.6	2630.6	5910.8	6337.7	6258.9	4984.5	2933.1
75°	241.7	257.6	311.9	424.8	687.8	1084.9	3215.1	3628.2	3463.2	2277.3	1079.5
77.5°	178.9	184.2	211.8	270.4	368.4	422.7	1387.2	1650.1	1545.8	824.0	357.7
80°	130.9	135.2	157.6	191.7	232.1	215.0	522.8	599.4	537.7	280.0	109.7
82.5°	79.8	80.9	115.0	142.6	145.8	120.3	172.5	185.3	193.8	157.6	59.6
85°	28.8	36.2	77.7	103.3	86.2	60.7	72.4	79.8	87.3	100.1	35.2
87.5°	3.2	4.3	37.3	50.0	24.5	22.4	26.6	29.8	32.0	37.3	17.1
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°	1583.1	1583.1	1583.1	1583.1	1583.1	1583.1	1583.1	1583.1	1583.1	1583.1	1583.1
2.5°	1592.7	1596.9	1593.8	1588.4	1587.4	1584.2	1577.8	1577.8	1577.8	1579.9	1577.8
5°	1616.1	1619.3	1611.9	1601.2	1589.5	1574.6	1558.6	1549.0	1547.9	1545.8	1540.5
7.5°	1660.8	1665.1	1648.0	1622.5	1590.6	1554.3	1520.3	1488.3	1473.4	1461.7	1461.7
10°	1725.7	1730.0	1696.0	1650.1	1586.3	1512.8	1431.9	1358.5	1300.9	1274.4	1268.0
12.5°	1803.4	1805.6	1749.2	1669.3	1563.9	1422.3	1249.9	1089.1	977.3	926.2	920.9
15°	1888.6	1873.7	1799.2	1676.8	1500.1	1236.0	938.0	741.0	624.9	590.9	603.7
17.5°	1974.8	1947.2	1837.5	1665.1	1356.4	938.0	630.2	505.7	469.5	459.9	459.9
20°	2055.8	2017.5	1865.3	1614.0	1107.2	646.2	467.3	437.6	431.2	424.8	425.9
22.5°	2136.7	2078.1	1889.7	1500.1	825.1	462.0	418.4	408.8	400.3	391.8	390.7
25°	2215.4	2134.5	1899.3	1289.3	562.1	397.1	382.2	369.5	352.4	342.8	340.7
27.5°	2297.4	2202.7	1892.9	1023.1	409.9	355.6	340.7	322.6	302.3	285.4	285.4
30°	2455.0	2332.6	1870.6	735.6	345.0	313.0	293.8	265.1	242.7	225.7	224.6
32.5°	2670.1	2501.9	1793.9	517.4	306.6	275.8	247.0	215.0	191.7	178.9	178.9
35°	2861.7	2672.2	1650.1	381.1	275.8	239.5	204.4	173.5	155.4	146.9	143.7
37.5°	3153.4	2921.3	1452.2	309.8	245.9	207.6	171.4	142.6	127.7	121.4	121.4
40°	3591.0	3225.8	1209.4	271.5	217.1	176.7	142.6	120.3	108.6	101.2	101.2
42.5°	4133.9	3598.4	963.4	243.8	190.6	152.2	119.3	102.2	91.6	86.2	85.2
45°	4817.4	3991.3	742.0	218.2	169.3	129.9	101.2	86.2	75.6	72.4	73.4
47.5°	5530.7	4337.3	574.9	195.9	146.9	109.7	86.2	74.5	67.1	62.8	62.8
50°	6139.6	4575.7	436.5	170.3	129.9	92.6	75.6	67.1	60.7	58.5	57.5
52.5°	6648.5	4644.9	334.3	148.0	114.0	79.8	67.1	60.7	55.3	52.1	52.1
55°	7081.9	4584.3	261.9	124.6	95.8	69.2	59.6	54.3	47.9	44.7	43.6
57.5°	7335.2	4389.4	200.2	103.3	77.7	57.5	52.1	45.8	38.3	33.0	33.0
60°	7463.0	4106.3	153.3	85.2	59.6	45.8	42.6	34.1	26.6	22.4	21.3
62.5°	7309.7	3730.4	116.1	67.1	44.7	34.1	28.8	24.5	17.1	12.8	12.8
63°	7214.9	3621.9	111.8	63.9	41.5	32.0	26.6	22.4	14.9	11.7	10.7
65°	6577.2	3148.1	91.6	51.1	33.0	22.4	18.1	16.0	10.7	5.3	4.3
67.5°	5223.0	2408.2	72.4	38.3	23.4	16.0	10.7	9.6	3.2	0.0	0.0
70°	3531.4	1555.4	56.4	27.7	16.0	9.6	5.3	4.3	1.1	0.0	0.0
72.5°	1841.8	797.4	43.6	20.3	9.6	6.4	3.2	1.1	0.0	0.0	0.0
75°	651.5	271.5	32.0	12.8	6.4	3.2	1.1	0.0	0.0	0.0	0.0
77.5°	197.0	101.2	20.3	9.6	4.3	2.1	0.0	0.0	0.0	0.0	0.0
80°	69.2	37.3	11.7	6.4	3.2	1.1	0.0	0.0	0.0	0.0	0.0
82.5°	34.1	18.1	7.5	5.3	3.2	1.1	0.0	0.0	0.0	0.0	0.0
85°	19.2	11.7	6.4	5.3	3.2	2.1	0.0	0.0	0.0	0.0	0.0
87.5°	13.9	8.5	6.4	5.3	4.3	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)