

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: P452415

Luminaire Tested: **GALN-SA3B-760-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452415
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-SA3B-760-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 800mA 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: 12471 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

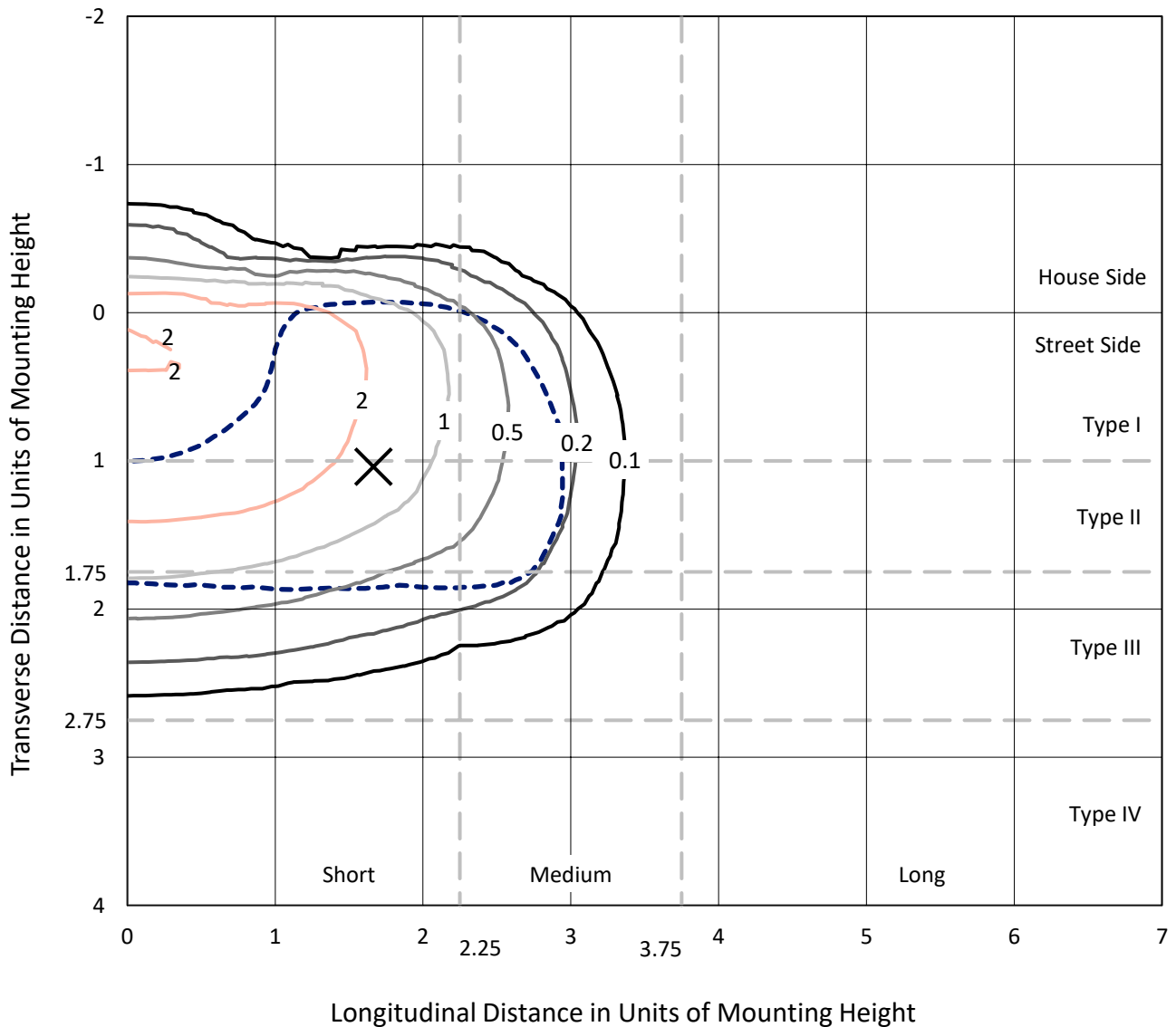
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

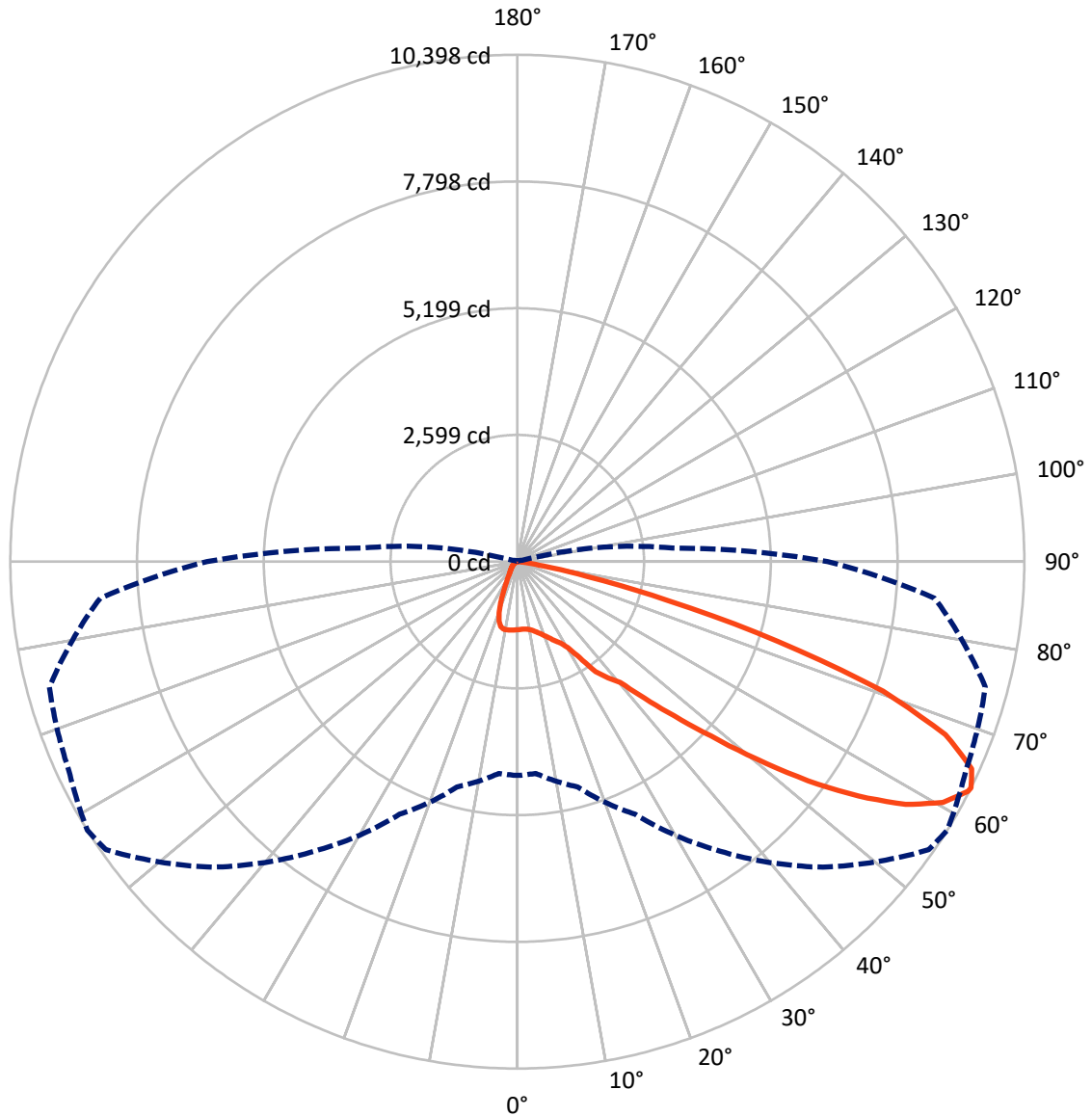
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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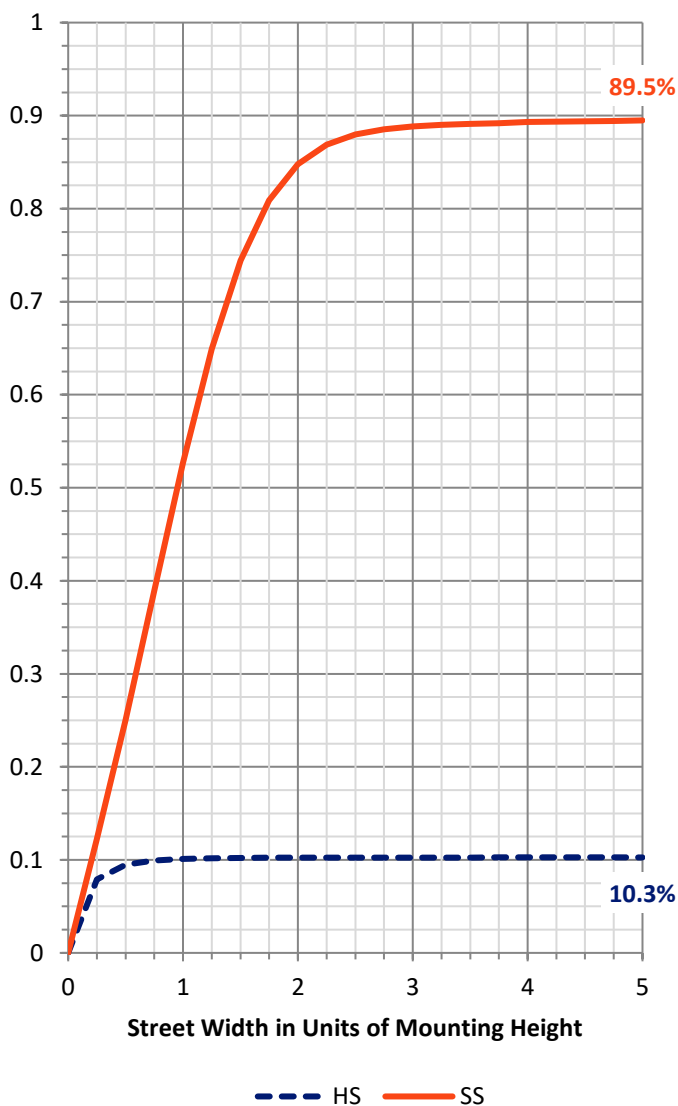
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1291.3	0.0	1291.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	11179.7	0.0	11179.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	12471.0	0.0	12471.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.7	1.0
10°-20°	356.0	2.9
20°-30°	617.8	5.0
30°-40°	1135.3	9.1
40°-50°	2137.2	17.1
50°-60°	3655.6	29.3
60°-70°	3500.2	28.1
70°-80°	892.6	7.2
80°-90°	45.6	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°	12471.0	100.0
0°-180°	12471.0	100.0

Coefficient of Utilization



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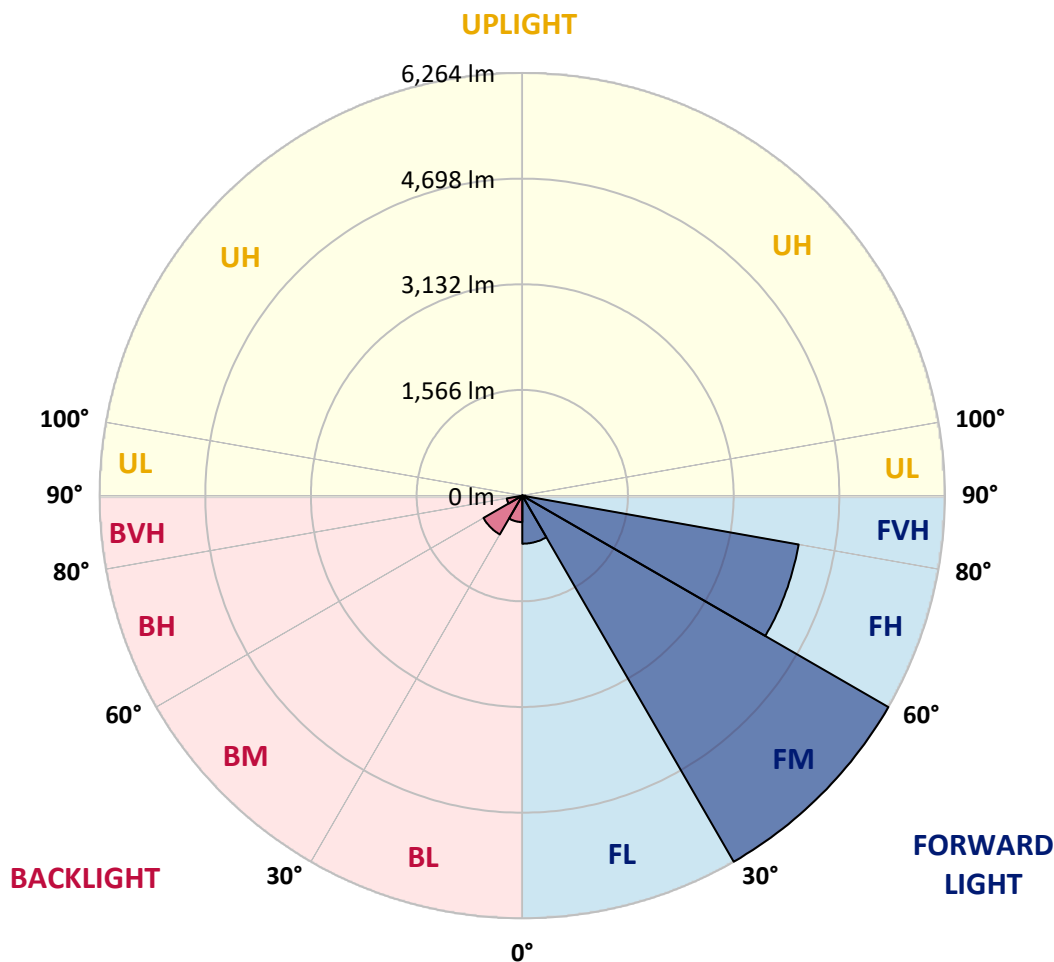
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	712.9	5.7			
FM	(30°-60°)	6263.9	50.2			
FH	(60°-80°)	4159.0	33.3			G2/5000
FVH	(80°-90°)	43.9	0.4			G1/100
BL	(0°-30°)	391.6	3.1	B1/500		
BM	(30°-60°)	664.2	5.3	B1/1000		
BH	(60°-80°)	233.7	1.9	B1/500		G1/500
BVH	(80°-90°)	1.8	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°	1396.2	1396.2	1396.2	1396.2	1396.2	1396.2	1396.2	1396.2	1396.2	1396.2	1396.2
2.5°	1361.4	1366.1	1370.8	1372.7	1379.3	1385.8	1390.5	1389.6	1397.1	1400.9	1400.9
5°	1307.0	1307.0	1319.2	1330.5	1349.2	1368.0	1385.8	1389.6	1403.7	1416.8	1421.5
7.5°	1261.0	1263.8	1273.2	1293.8	1319.2	1352.0	1387.7	1396.2	1420.6	1449.7	1461.9
10°	1239.4	1241.3	1253.5	1275.1	1307.0	1352.0	1401.8	1417.8	1455.3	1501.3	1518.2
12.5°	1234.7	1237.5	1249.7	1274.1	1310.7	1365.2	1432.8	1449.7	1504.2	1563.3	1588.7
15°	1243.1	1245.0	1257.2	1283.5	1323.9	1388.7	1474.1	1497.6	1562.4	1630.9	1663.8
17.5°	1273.2	1271.3	1279.8	1301.3	1346.4	1417.8	1523.9	1552.0	1628.1	1722.0	1743.6
20°	1400.9	1388.7	1381.2	1362.4	1380.2	1459.1	1584.0	1625.3	1719.2	1814.9	1830.0
22.5°	1676.0	1648.7	1595.2	1522.0	1465.7	1515.4	1656.3	1704.1	1825.3	1919.2	1919.2
25°	2026.2	1991.5	1937.9	1778.3	1640.3	1608.4	1737.9	1798.0	1940.8	2035.6	2004.6
27.5°	2464.7	2437.4	2333.2	2147.3	1936.1	1770.8	1832.8	1888.2	2043.1	2157.6	2092.9
30°	2821.5	2808.3	2722.9	2556.7	2323.8	2082.5	2009.3	2045.9	2179.2	2311.6	2245.0
32.5°	3122.9	3122.9	3035.5	2880.6	2662.8	2448.7	2308.8	2335.1	2462.8	2615.8	2491.9
35°	3454.3	3443.0	3372.6	3225.2	2981.1	2792.4	2735.1	2770.8	2886.2	2999.9	2694.7
37.5°	3802.6	3798.9	3725.6	3582.9	3383.9	3146.3	3012.1	3021.5	3080.6	3150.1	2932.3
40°	4181.0	4186.7	4090.9	4002.6	3814.8	3571.7	3314.4	3255.2	3310.6	3506.9	3370.7
42.5°	4627.9	4614.8	4573.5	4453.3	4302.1	4156.6	3847.7	3826.1	3874.9	4085.2	3937.8
45°	5147.2	5165.9	5094.6	5027.9	4926.5	4805.4	4547.2	4509.6	4563.2	4889.9	4680.5
47.5°	5667.3	5649.5	5695.5	5683.3	5737.8	5647.6	5419.5	5342.5	5471.1	5780.9	5473.0
50°	6063.6	6083.3	6179.0	6318.9	6552.7	6603.4	6384.7	6358.4	6415.7	6614.7	6181.9
52.5°	6320.8	6386.5	6536.8	6896.4	7318.0	7645.6	7479.5	7465.4	7441.9	7495.4	6859.8
55°	6488.9	6555.6	6751.8	7281.3	8007.1	8539.5	8547.9	8487.9	8332.9	8294.4	7493.5
57.5°	6385.6	6398.8	6678.6	7386.5	8389.3	9177.0	9453.1	9393.0	9106.6	8961.1	8053.1
60°	5739.6	5766.9	6156.5	6988.4	8223.1	9385.5	10053.0	10025.8	9712.2	9547.9	8488.8
62.5°	4595.1	4674.0	5074.9	6002.5	7450.3	9034.3	10296.2	10373.2	10129.1	9902.8	8625.9
63°	4384.8	4359.4	4782.9	5715.2	7245.7	8860.6	10300.0	10397.6	10147.9	9936.6	8588.3
65°	3245.9	3321.9	3597.0	4506.8	6029.8	8052.2	10068.1	10240.8	10078.4	9787.3	8172.4
67.5°	1822.4	1818.7	2122.9	2949.2	4220.5	6316.1	9103.8	9469.0	9435.2	8782.7	6774.3
70°	892.0	906.1	1030.9	1528.6	2447.8	4357.5	7564.9	7959.2	7971.4	6898.3	4684.3
72.5°	403.7	410.3	499.5	744.6	1258.2	2320.1	5212.9	5589.4	5519.9	4396.0	2586.7
75°	213.1	227.2	275.1	374.6	606.5	956.8	2835.5	3199.8	3054.3	2008.4	952.1
77.5°	157.7	162.4	186.8	238.5	324.9	372.8	1223.4	1455.3	1363.3	726.7	315.5
80°	115.5	119.2	139.0	169.0	204.7	189.7	461.0	528.6	474.2	246.9	96.7
82.5°	70.4	71.4	101.4	125.8	128.6	106.1	152.1	163.4	170.9	139.0	52.6
85°	25.4	31.9	68.5	91.1	76.1	53.5	63.8	70.4	77.0	88.3	31.0
87.5°	2.8	3.8	32.9	44.1	21.6	19.7	23.5	26.3	28.2	32.9	15.0
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°	1396.2	1396.2	1396.2	1396.2	1396.2	1396.2	1396.2	1396.2	1396.2	1396.2	1396.2
2.5°	1404.6	1408.4	1405.6	1400.9	1399.9	1397.1	1391.5	1391.5	1391.5	1393.4	1391.5
5°	1425.3	1428.1	1421.5	1412.1	1401.8	1388.7	1374.6	1366.1	1365.2	1363.3	1358.6
7.5°	1464.7	1468.5	1453.5	1430.9	1402.7	1370.8	1340.8	1312.6	1299.5	1289.1	1289.1
10°	1522.0	1525.7	1495.7	1455.3	1399.0	1334.2	1262.8	1198.1	1147.4	1123.9	1118.3
12.5°	1590.5	1592.4	1542.6	1472.2	1379.3	1254.4	1102.3	960.5	861.9	816.9	812.2
15°	1665.6	1652.5	1586.8	1478.8	1322.9	1090.1	827.2	653.5	551.1	521.1	532.4
17.5°	1741.7	1717.3	1620.6	1468.5	1196.2	827.2	555.8	446.0	414.1	405.6	405.6
20°	1813.1	1779.3	1645.0	1423.4	976.5	569.9	412.2	385.9	380.3	374.6	375.6
22.5°	1884.4	1832.8	1666.6	1322.9	727.7	407.5	369.0	360.5	353.0	345.5	344.6
25°	1953.9	1882.5	1675.0	1137.0	495.8	350.2	337.1	325.8	310.8	302.3	300.5
27.5°	2026.2	1942.6	1669.4	902.3	361.5	313.6	300.5	284.5	266.7	251.6	251.6
30°	2165.2	2057.2	1649.7	648.8	304.2	276.0	259.1	233.8	214.1	199.1	198.1
32.5°	2354.8	2206.5	1582.1	456.3	270.4	243.2	217.8	189.7	169.0	157.7	157.7
35°	2523.8	2356.7	1455.3	336.1	243.2	211.3	180.3	153.0	137.1	129.6	126.8
37.5°	2781.1	2576.4	1280.7	273.2	216.9	183.1	151.2	125.8	112.7	107.0	107.0
40°	3167.0	2844.9	1066.6	239.4	191.5	155.9	125.8	106.1	95.8	89.2	89.2
42.5°	3645.8	3173.6	849.7	215.0	168.1	134.3	105.2	90.1	80.7	76.1	75.1
45°	4248.6	3520.0	654.4	192.5	149.3	114.5	89.2	76.1	66.7	63.8	64.8
47.5°	4877.7	3825.2	507.0	172.8	129.6	96.7	76.1	65.7	59.2	55.4	55.4
50°	5414.8	4035.5	385.0	150.2	114.5	81.7	66.7	59.2	53.5	51.6	50.7
52.5°	5863.6	4096.5	294.8	130.5	100.5	70.4	59.2	53.5	48.8	46.0	46.0
55°	6245.7	4043.0	231.0	109.9	84.5	61.0	52.6	47.9	42.3	39.4	38.5
57.5°	6469.2	3871.2	176.5	91.1	68.5	50.7	46.0	40.4	33.8	29.1	29.1
60°	6581.8	3621.4	135.2	75.1	52.6	40.4	37.6	30.0	23.5	19.7	18.8
62.5°	6446.6	3290.0	102.3	59.2	39.4	30.0	25.4	21.6	15.0	11.3	11.3
63°	6363.1	3194.2	98.6	56.3	36.6	28.2	23.5	19.7	13.1	10.3	9.4
65°	5800.7	2776.4	80.7	45.1	29.1	19.7	16.0	14.1	9.4	4.7	3.8
67.5°	4606.4	2123.8	63.8	33.8	20.7	14.1	9.4	8.5	2.8	0.0	0.0
70°	3114.4	1371.8	49.8	24.4	14.1	8.5	4.7	3.8	0.9	0.0	0.0
72.5°	1624.3	703.3	38.5	17.8	8.5	5.6	2.8	0.9	0.0	0.0	0.0
75°	574.6	239.4	28.2	11.3	5.6	2.8	0.9	0.0	0.0	0.0	0.0
77.5°	173.7	89.2	17.8	8.5	3.8	1.9	0.0	0.0	0.0	0.0	0.0
80°	61.0	32.9	10.3	5.6	2.8	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	30.0	16.0	6.6	4.7	2.8	0.9	0.0	0.0	0.0	0.0	0.0
85°	16.9	10.3	5.6	4.7	2.8	1.9	0.0	0.0	0.0	0.0	0.0
87.5°	12.2	7.5	5.6	4.7	3.8	1.9	0.9	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)