

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: P452531

Luminaire Tested: **GALN-SA3C-727-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452531
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-SA3C-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA 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: 12886 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

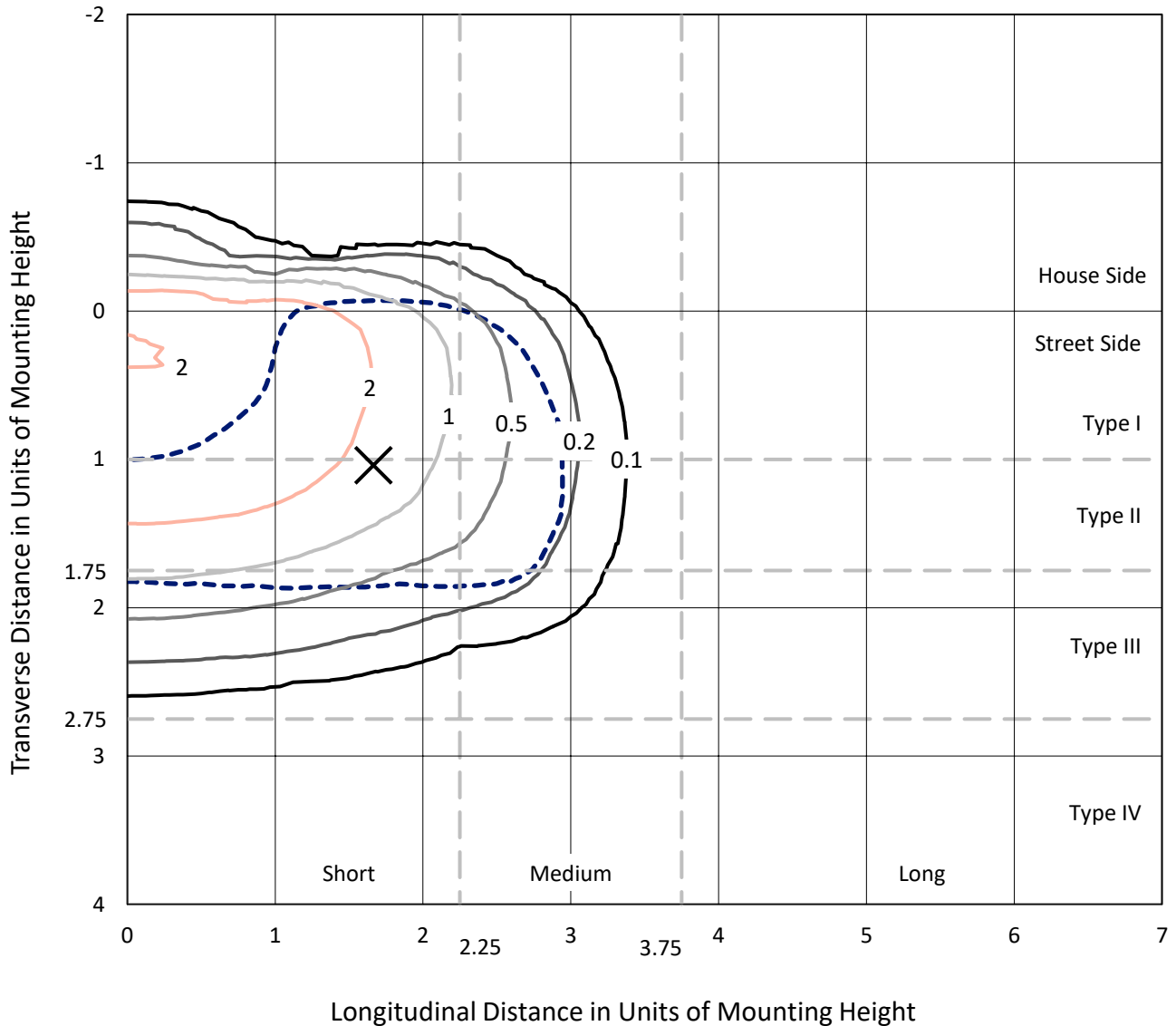
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

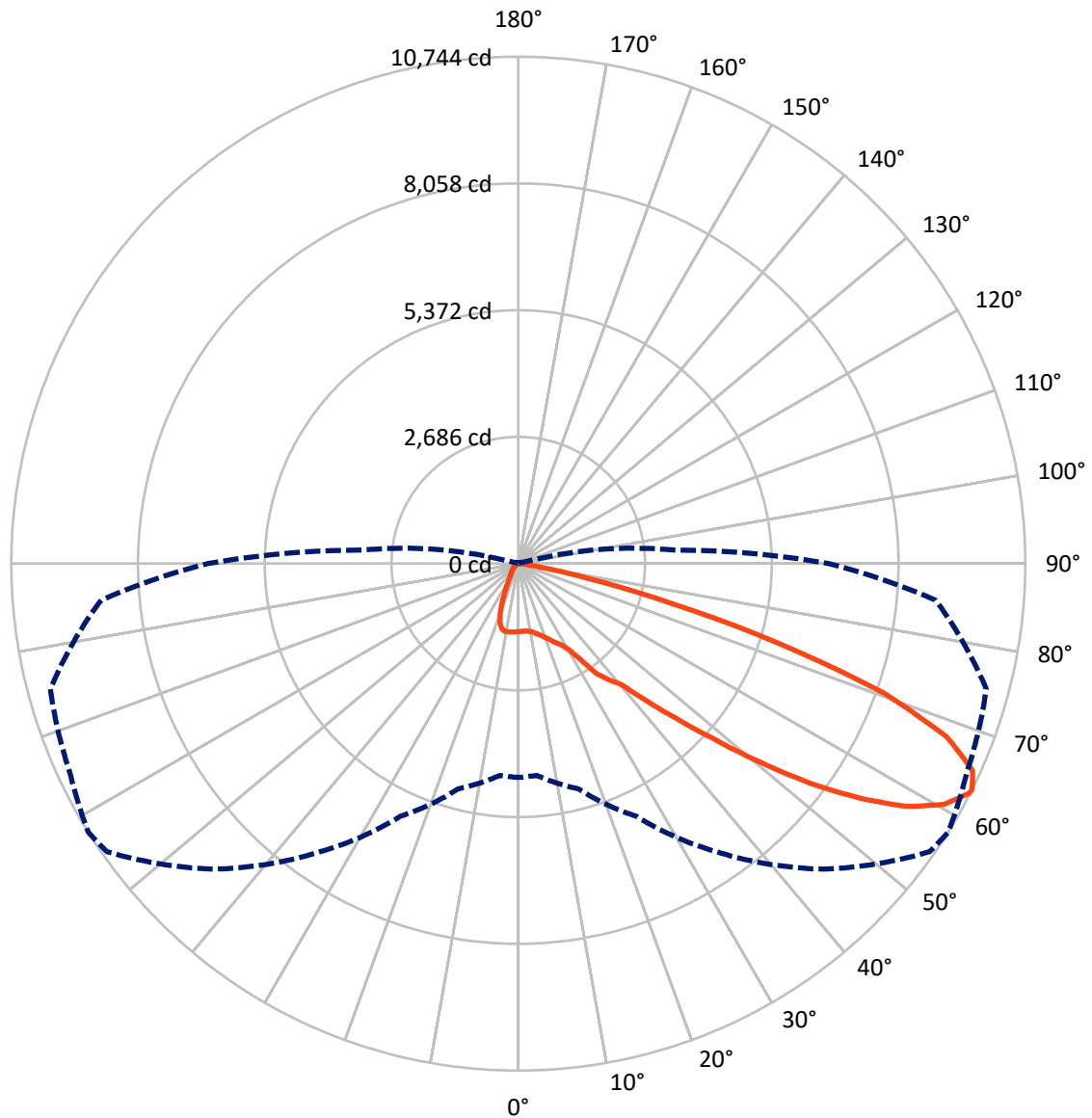
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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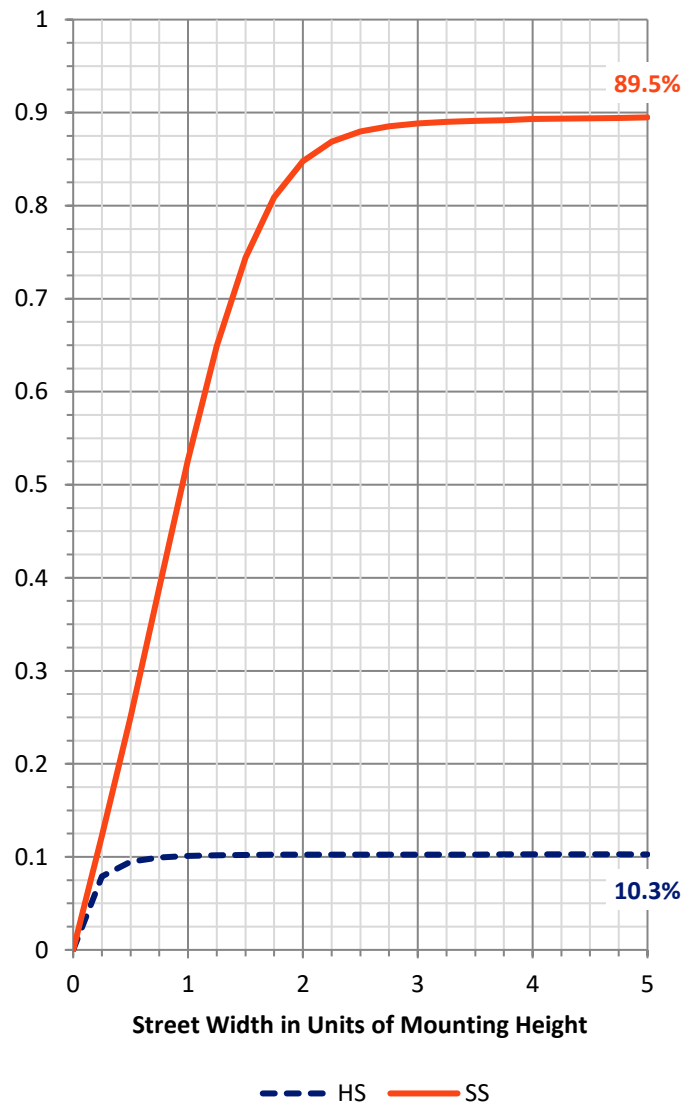
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1334.3	0.0	1334.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	11551.7	0.0	11551.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	12886.0	0.0	12886.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.0	1.0
10°-20°	367.8	2.9
20°-30°	638.4	5.0
30°-40°	1173.1	9.1
40°-50°	2208.3	17.1
50°-60°	3777.2	29.3
60°-70°	3616.7	28.1
70°-80°	922.3	7.2
80°-90°	47.2	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°	12886.0	100.0
0°-180°	12886.0	100.0



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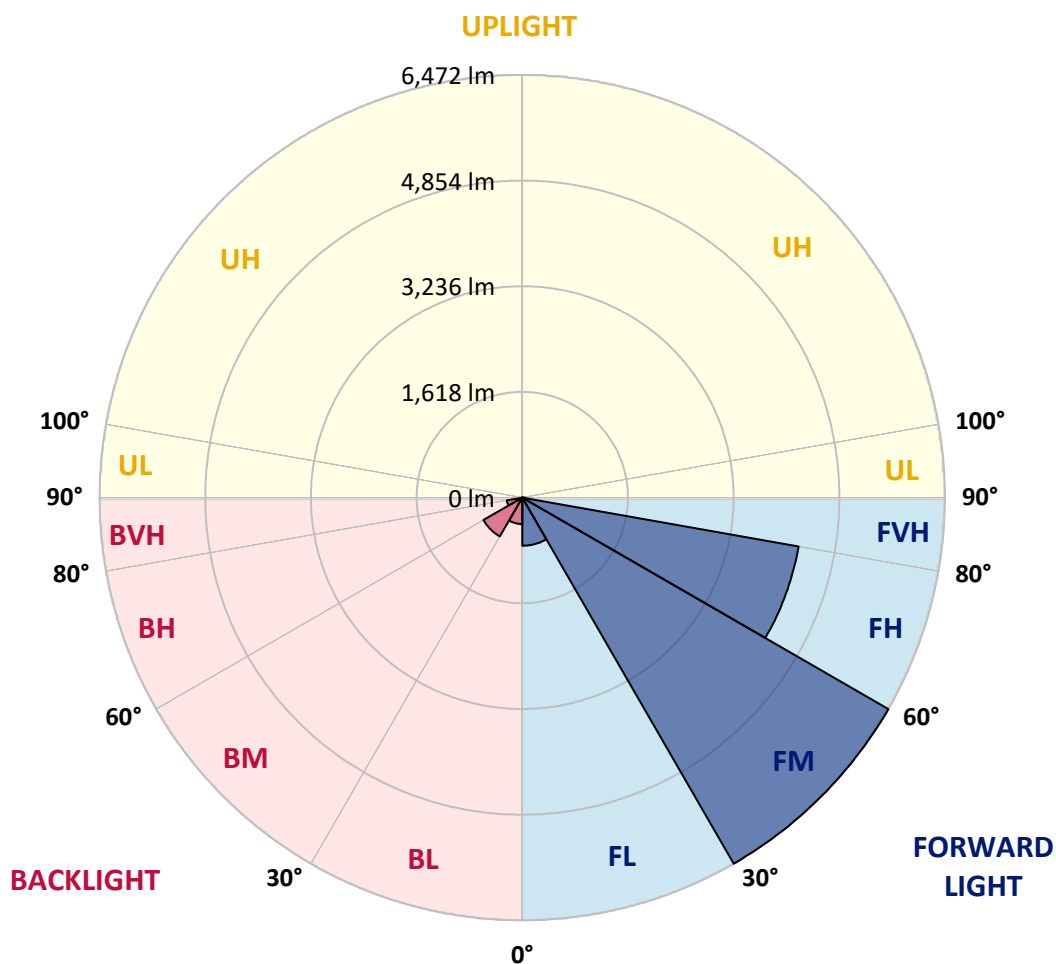
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	736.6	5.7			
FM	(30°-60°)	6472.4	50.2			
FH	(60°-80°)	4297.4	33.3			G2/5000
FVH	(80°-90°)	45.3	0.4			G1/100
BL	(0°-30°)	404.6	3.1	B1/500		
BM	(30°-60°)	686.3	5.3	B1/1000		
BH	(60°-80°)	241.5	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°	1442.6	1442.6	1442.6	1442.6	1442.6	1442.6	1442.6	1442.6	1442.6	1442.6	1442.6
2.5°	1406.7	1411.6	1416.4	1418.4	1425.2	1432.0	1436.8	1435.8	1443.6	1447.5	1447.5
5°	1350.5	1350.5	1363.1	1374.7	1394.1	1413.5	1432.0	1435.8	1450.4	1464.0	1468.8
7.5°	1302.9	1305.8	1315.5	1336.9	1363.1	1397.0	1433.9	1442.6	1467.9	1497.9	1510.5
10°	1280.6	1282.6	1295.2	1317.5	1350.5	1397.0	1448.5	1465.0	1503.8	1551.3	1568.8
12.5°	1275.8	1278.7	1291.3	1316.5	1354.4	1410.6	1480.5	1497.9	1554.2	1615.3	1641.5
15°	1284.5	1286.4	1299.1	1326.2	1367.9	1434.9	1523.2	1547.4	1614.4	1685.2	1719.1
17.5°	1315.5	1313.6	1322.3	1344.7	1391.2	1465.0	1574.6	1603.7	1682.3	1779.3	1801.6
20°	1447.5	1434.9	1427.1	1407.7	1426.1	1507.6	1636.7	1679.4	1776.4	1875.3	1890.9
22.5°	1731.7	1703.6	1648.3	1572.6	1514.4	1565.8	1711.4	1760.9	1886.0	1983.0	1983.0
25°	2093.6	2057.7	2002.4	1837.5	1694.9	1661.9	1795.8	1857.9	2005.3	2103.3	2071.3
27.5°	2546.7	2518.6	2410.9	2218.8	2000.5	1829.7	1893.8	1951.0	2111.1	2229.4	2162.5
30°	2915.4	2901.8	2813.5	2641.8	2401.2	2151.8	2076.2	2114.0	2251.8	2388.5	2319.7
32.5°	3226.8	3226.8	3136.5	2976.5	2751.4	2530.2	2385.6	2412.8	2544.7	2702.9	2574.8
35°	3569.2	3557.6	3484.8	3332.5	3080.3	2885.3	2826.1	2863.0	2982.3	3099.7	2784.4
37.5°	3929.2	3925.3	3849.6	3702.2	3496.5	3251.0	3112.3	3122.0	3183.1	3254.9	3029.8
40°	4320.2	4326.0	4227.0	4135.8	3941.8	3690.5	3424.7	3363.6	3420.8	3623.6	3482.9
42.5°	4782.0	4768.4	4725.7	4601.5	4445.3	4294.9	3975.7	3953.4	4003.9	4221.2	4068.9
45°	5318.5	5337.9	5264.1	5195.2	5090.5	4965.3	4698.5	4659.7	4715.0	5052.6	4836.3
47.5°	5855.9	5837.5	5885.0	5872.4	5928.7	5835.6	5599.8	5520.2	5653.2	5973.3	5655.1
50°	6265.3	6285.7	6384.7	6529.2	6770.8	6823.2	6597.1	6570.0	6629.1	6834.8	6387.6
52.5°	6531.2	6599.1	6754.3	7125.9	7561.5	7900.1	7728.3	7713.8	7689.5	7744.8	7088.0
55°	6704.8	6773.7	6976.5	7523.6	8273.6	8823.7	8832.4	8770.3	8610.2	8570.5	7742.9
57.5°	6598.1	6611.7	6900.8	7632.3	8668.4	9482.4	9767.6	9705.5	9409.6	9259.3	8321.1
60°	5930.6	5958.8	6361.4	7220.9	8496.7	9697.8	10387.6	10359.4	10035.4	9865.6	8771.3
62.5°	4748.0	4829.5	5243.7	6202.3	7698.3	9334.9	10638.8	10718.4	10466.2	10232.3	8912.9
63°	4530.7	4504.5	4942.0	5905.4	7486.8	9155.5	10642.7	10743.6	10485.6	10267.3	8874.1
65°	3353.9	3432.4	3716.7	4656.8	6230.4	8320.1	10403.1	10581.6	10413.8	10113.0	8444.3
67.5°	1883.1	1879.2	2193.5	3047.3	4360.9	6526.3	9406.7	9784.1	9749.2	9074.9	6999.8
70°	921.7	936.2	1065.2	1579.4	2529.2	4502.5	7816.6	8224.1	8236.7	7127.8	4840.2
72.5°	417.2	424.0	516.1	769.3	1300.0	2397.3	5386.4	5775.4	5703.6	4542.3	2672.8
75°	220.2	234.8	284.3	387.1	626.7	988.6	2929.9	3306.3	3156.0	2075.2	983.7
77.5°	163.0	167.8	193.1	246.4	335.7	385.2	1264.1	1503.8	1408.7	750.9	326.0
80°	119.3	123.2	143.6	174.6	211.5	196.0	476.4	546.2	489.9	255.2	99.9
82.5°	72.8	73.7	104.8	130.0	132.9	109.6	157.2	168.8	176.6	143.6	54.3
85°	26.2	33.0	70.8	94.1	78.6	55.3	66.0	72.8	79.6	91.2	32.0
87.5°	2.9	3.9	34.0	45.6	22.3	20.4	24.3	27.2	29.1	34.0	15.5
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°	1442.6	1442.6	1442.6	1442.6	1442.6	1442.6	1442.6	1442.6	1442.6	1442.6	1442.6
2.5°	1451.4	1455.2	1452.3	1447.5	1446.5	1443.6	1437.8	1437.8	1437.8	1439.7	1437.8
5°	1472.7	1475.6	1468.8	1459.1	1448.5	1434.9	1420.3	1411.6	1410.6	1408.7	1403.8
7.5°	1513.5	1517.3	1501.8	1478.5	1449.4	1416.4	1385.4	1356.3	1342.7	1332.0	1332.0
10°	1572.6	1576.5	1545.5	1503.8	1445.5	1378.6	1304.9	1237.9	1185.5	1161.3	1155.5
12.5°	1643.5	1645.4	1594.0	1521.2	1425.2	1296.1	1139.0	992.5	890.6	844.0	839.2
15°	1721.1	1707.5	1639.6	1528.0	1367.0	1126.4	854.7	675.2	569.5	538.4	550.1
17.5°	1799.7	1774.4	1674.5	1517.3	1236.0	854.7	574.3	460.8	427.8	419.1	419.1
20°	1873.4	1838.5	1699.7	1470.8	1009.0	588.9	425.9	398.7	392.9	387.1	388.1
22.5°	1947.1	1893.8	1722.0	1367.0	751.9	421.1	381.3	372.5	364.8	357.0	356.1
25°	2018.9	1945.2	1730.8	1174.9	512.2	361.9	348.3	336.6	321.1	312.4	310.5
27.5°	2093.6	2007.3	1725.0	932.3	373.5	324.0	310.5	294.0	275.5	260.0	260.0
30°	2237.2	2125.6	1704.6	670.4	314.3	285.2	267.8	241.6	221.2	205.7	204.7
32.5°	2433.2	2279.9	1634.7	471.5	279.4	251.3	225.1	196.0	174.6	163.0	163.0
35°	2607.8	2435.1	1503.8	347.3	251.3	218.3	186.3	158.1	141.6	133.9	131.0
37.5°	2873.6	2662.1	1323.3	282.3	224.1	189.2	156.2	130.0	116.4	110.6	110.6
40°	3272.4	2939.6	1102.1	247.4	197.9	161.0	130.0	109.6	99.0	92.2	92.2
42.5°	3767.2	3279.2	878.0	222.2	173.7	138.7	108.7	93.1	83.4	78.6	77.6
45°	4390.0	3637.2	676.2	198.9	154.3	118.4	92.2	78.6	68.9	66.0	66.9
47.5°	5040.0	3952.5	523.9	178.5	133.9	99.9	78.6	67.9	61.1	57.2	57.2
50°	5595.0	4169.8	397.8	155.2	118.4	84.4	68.9	61.1	55.3	53.4	52.4
52.5°	6058.7	4232.8	304.6	134.9	103.8	72.8	61.1	55.3	50.4	47.5	47.5
55°	6453.5	4177.5	238.7	113.5	87.3	63.1	54.3	49.5	43.7	40.7	39.8
57.5°	6684.4	4000.0	182.4	94.1	70.8	52.4	47.5	41.7	34.9	30.1	30.1
60°	6800.9	3741.9	139.7	77.6	54.3	41.7	38.8	31.0	24.3	20.4	19.4
62.5°	6661.2	3399.5	105.7	61.1	40.7	31.0	26.2	22.3	15.5	11.6	11.6
63°	6574.8	3300.5	101.9	58.2	37.8	29.1	24.3	20.4	13.6	10.7	9.7
65°	5993.7	2868.8	83.4	46.6	30.1	20.4	16.5	14.6	9.7	4.9	3.9
67.5°	4759.6	2194.5	66.0	34.9	21.3	14.6	9.7	8.7	2.9	0.0	0.0
70°	3218.0	1417.4	51.4	25.2	14.6	8.7	4.9	3.9	1.0	0.0	0.0
72.5°	1678.4	726.7	39.8	18.4	8.7	5.8	2.9	1.0	0.0	0.0	0.0
75°	593.7	247.4	29.1	11.6	5.8	2.9	1.0	0.0	0.0	0.0	0.0
77.5°	179.5	92.2	18.4	8.7	3.9	1.9	0.0	0.0	0.0	0.0	0.0
80°	63.1	34.0	10.7	5.8	2.9	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	31.0	16.5	6.8	4.9	2.9	1.0	0.0	0.0	0.0	0.0	0.0
85°	17.5	10.7	5.8	4.9	2.9	1.9	0.0	0.0	0.0	0.0	0.0
87.5°	12.6	7.8	5.8	4.9	3.9	1.9	1.0	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)