

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: P452995

Luminaire Tested: **GALN-SA4A-727-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452995
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-SA4A-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 11108 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

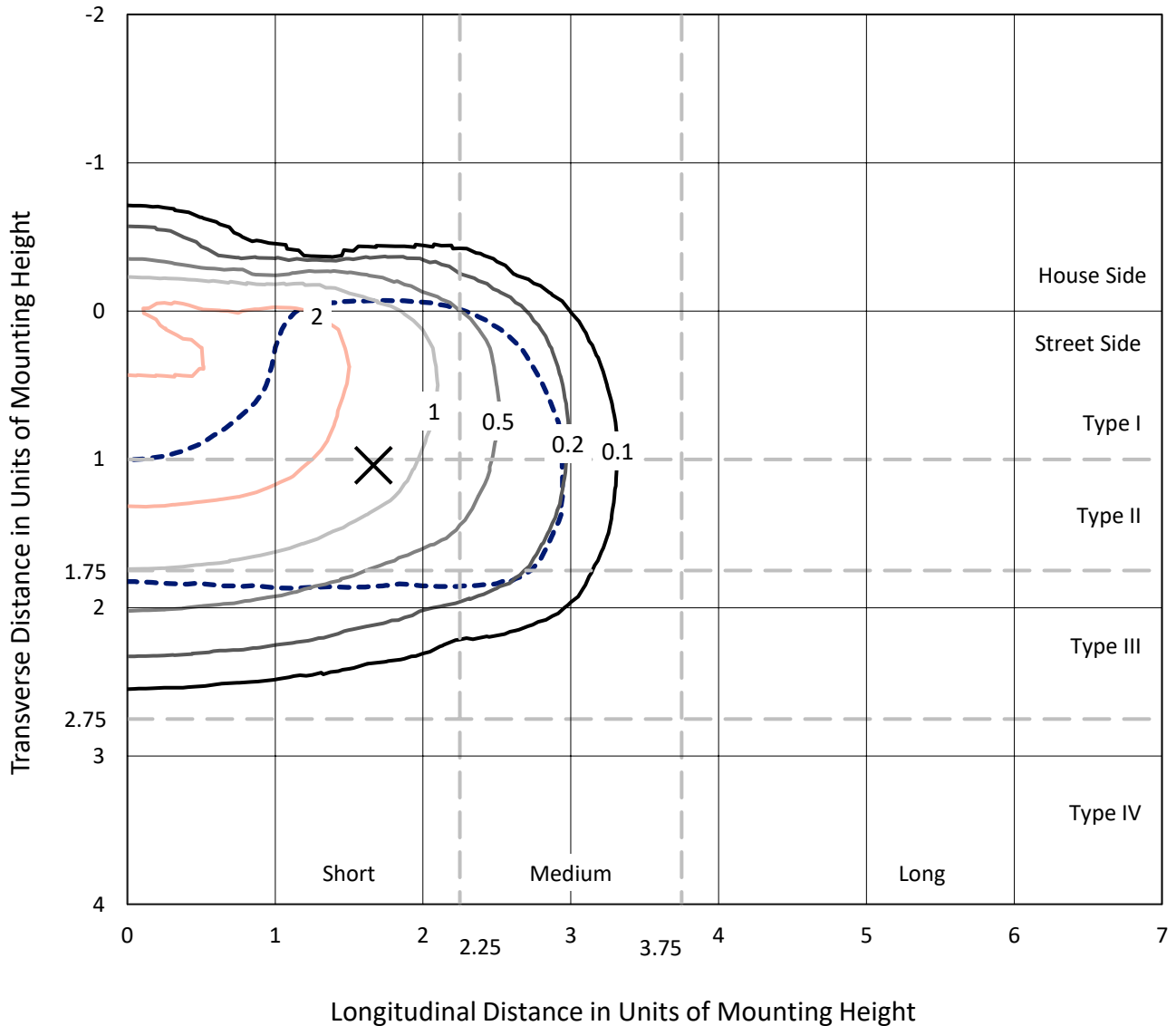
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

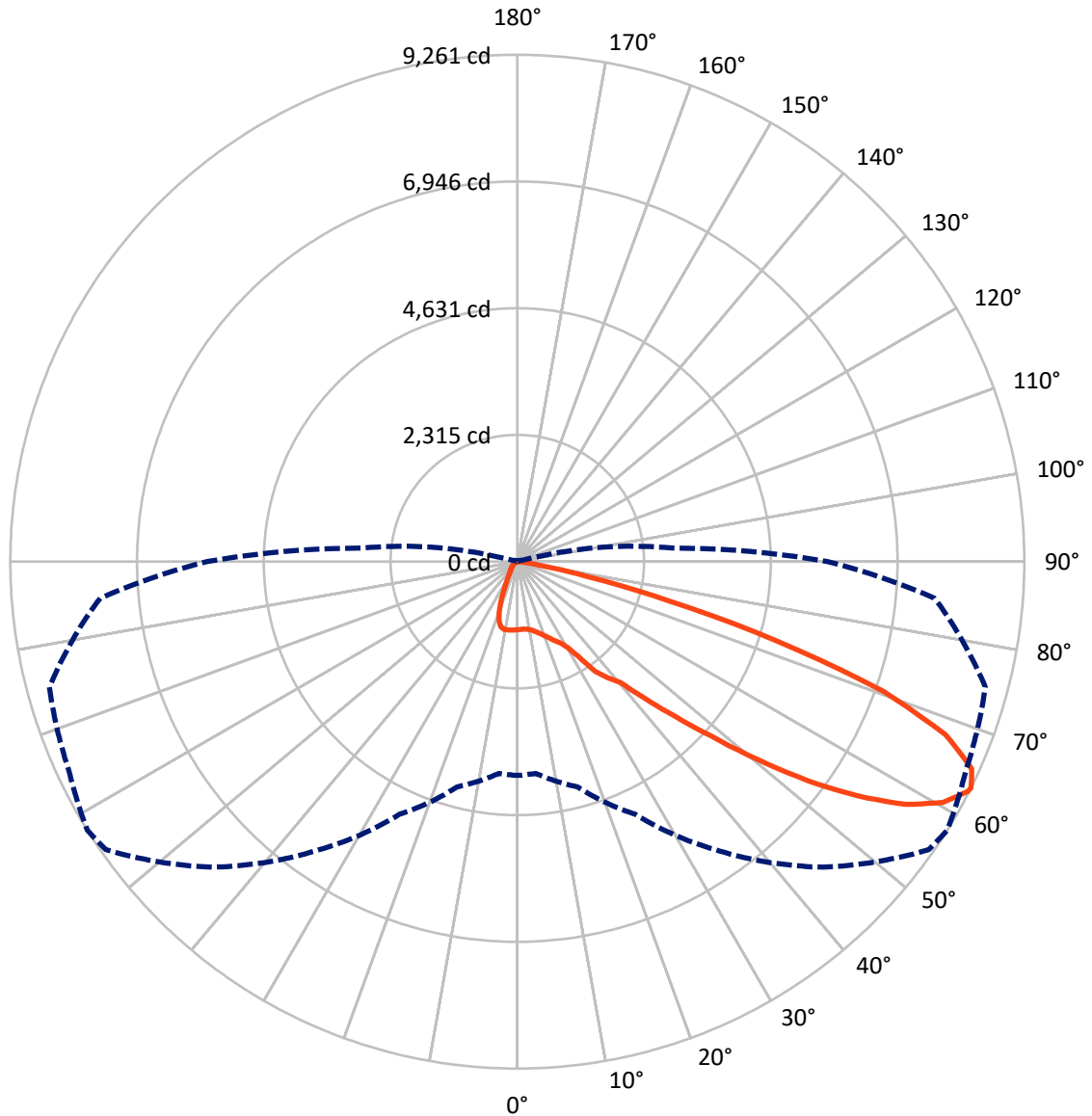
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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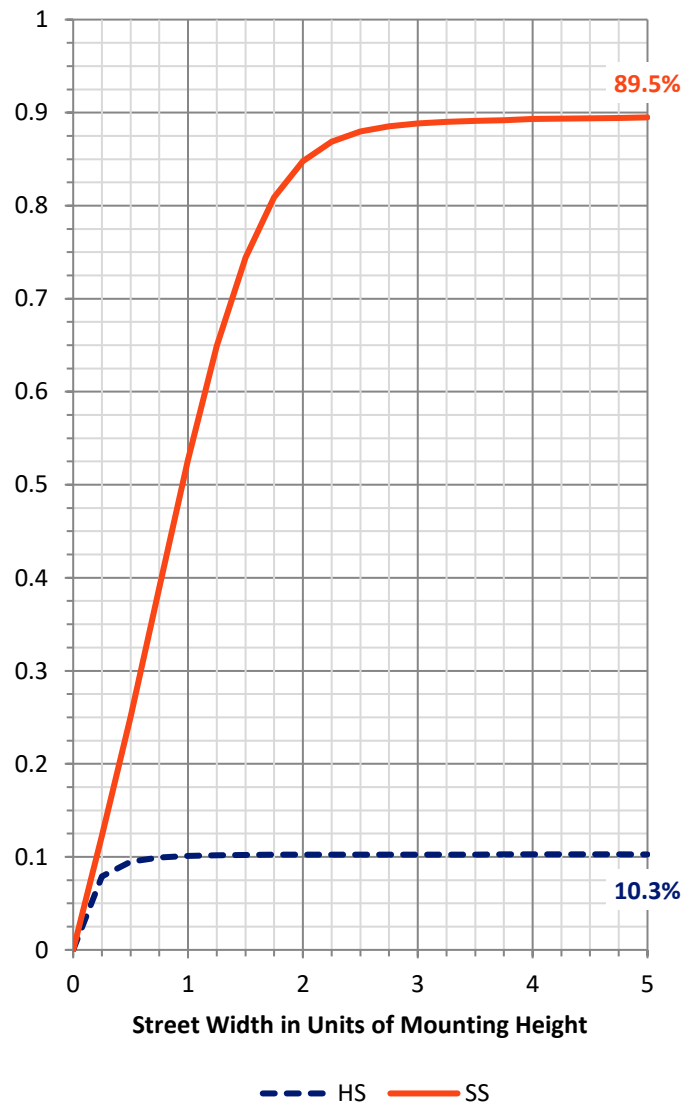
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1150.2	0.0	1150.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	9957.8	0.0	9957.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	11108.0	0.0	11108.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.4	1.0
10°-20°	317.1	2.9
20°-30°	550.3	5.0
30°-40°	1011.2	9.1
40°-50°	1903.6	17.1
50°-60°	3256.0	29.3
60°-70°	3117.6	28.1
70°-80°	795.0	7.2
80°-90°	40.7	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°	11108.0	100.0
0°-180°	11108.0	100.0



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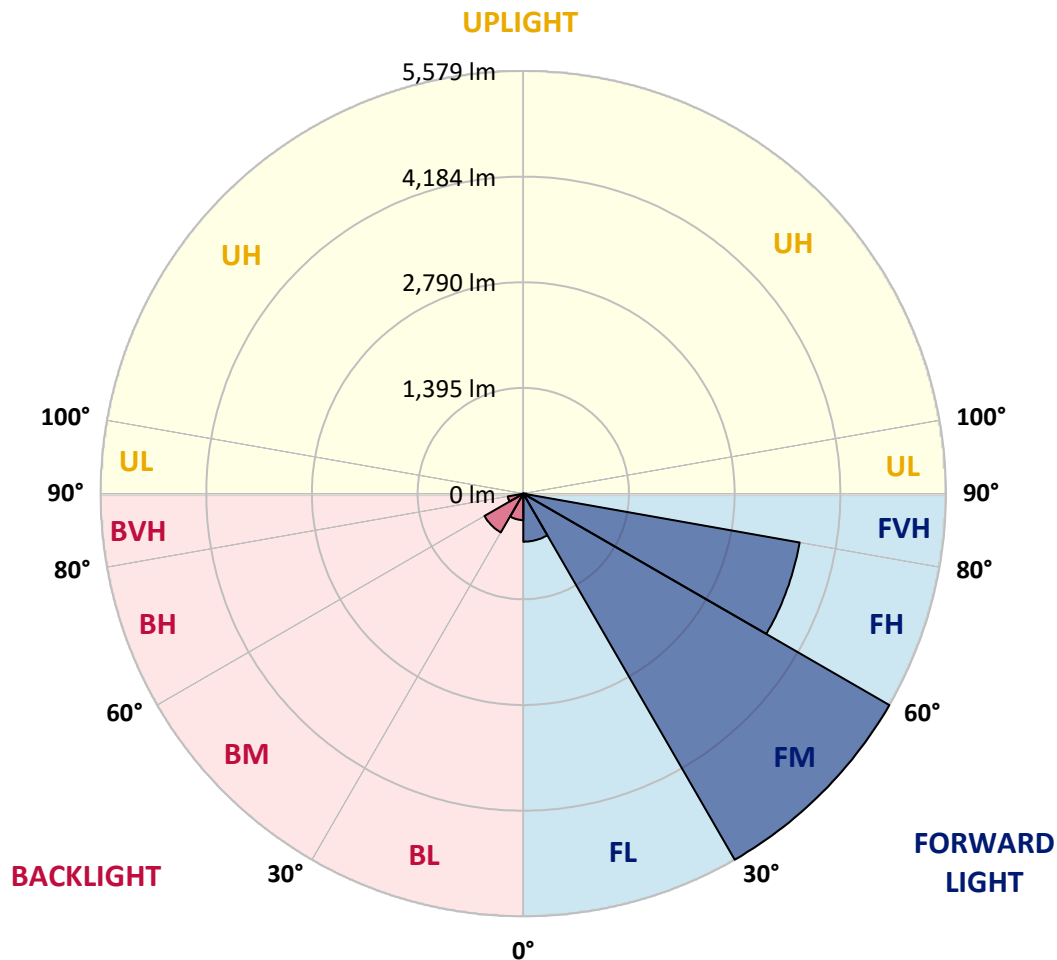
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	635.0	5.7			
FM (30°-60°)	5579.3	50.2			
FH (60°-80°)	3704.5	33.3			G2/5000
FVH (80°-90°)	39.1	0.4			G1/100
BL (0°-30°)	348.8	3.1	B1/500		
BM (30°-60°)	591.6	5.3	B1/1000		
BH (60°-80°)	208.2	1.9	B1/500		G1/500
BVH (80°-90°)	1.6	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°	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6
2.5°	1212.6	1216.8	1221.0	1222.7	1228.5	1234.4	1238.6	1237.7	1244.4	1247.8	1247.8
5°	1164.1	1164.1	1175.0	1185.0	1201.8	1218.5	1234.4	1237.7	1250.3	1262.0	1266.2
7.5°	1123.2	1125.7	1134.0	1152.4	1175.0	1204.3	1236.1	1243.6	1265.3	1291.3	1302.1
10°	1103.9	1105.6	1116.5	1135.7	1164.1	1204.3	1248.6	1262.8	1296.3	1337.2	1352.3
12.5°	1099.7	1102.2	1113.1	1134.9	1167.5	1216.0	1276.2	1291.3	1339.8	1392.4	1415.0
15°	1107.3	1108.9	1119.8	1143.2	1179.2	1236.9	1313.0	1333.9	1391.6	1452.7	1481.9
17.5°	1134.0	1132.4	1139.9	1159.1	1199.3	1262.8	1357.3	1382.4	1450.2	1533.8	1553.0
20°	1247.8	1236.9	1230.2	1213.5	1229.4	1299.6	1410.8	1447.6	1531.3	1616.6	1630.0
22.5°	1492.8	1468.5	1420.9	1355.6	1305.5	1349.8	1475.2	1517.9	1625.8	1709.4	1709.4
25°	1804.7	1773.8	1726.1	1584.0	1461.0	1432.6	1548.0	1601.5	1728.6	1813.1	1785.5
27.5°	2195.3	2171.0	2078.2	1912.6	1724.5	1577.3	1632.5	1681.8	1819.8	1921.8	1864.1
30°	2513.1	2501.4	2425.3	2277.3	2069.9	1854.9	1789.7	1822.3	1941.1	2059.0	1999.6
32.5°	2781.5	2781.5	2703.8	2565.8	2371.8	2181.1	2056.5	2079.9	2193.6	2329.9	2219.5
35°	3076.8	3066.7	3004.0	2872.7	2655.3	2487.2	2436.2	2467.9	2570.8	2672.0	2400.2
37.5°	3387.0	3383.7	3318.5	3191.3	3014.0	2802.5	2682.9	2691.2	2743.9	2805.8	2611.8
40°	3724.1	3729.1	3643.8	3565.2	3397.9	3181.3	2952.2	2899.5	2948.8	3123.6	3002.3
42.5°	4122.1	4110.4	4073.6	3966.6	3831.9	3702.3	3427.2	3407.9	3451.4	3638.8	3507.5
45°	4584.6	4601.3	4537.8	4478.4	4388.1	4280.2	4050.2	4016.8	4064.4	4355.5	4169.0
47.5°	5047.9	5032.0	5073.0	5062.1	5110.7	5030.4	4827.1	4758.6	4873.1	5149.1	4874.8
50°	5400.8	5418.4	5503.7	5628.3	5836.6	5881.7	5686.9	5663.4	5714.5	5891.8	5506.2
52.5°	5630.0	5688.5	5822.3	6142.7	6518.2	6810.0	6662.0	6649.5	6628.5	6676.2	6110.0
55°	5779.7	5839.1	6013.9	6485.5	7132.0	7606.2	7613.7	7560.2	7422.2	7387.9	6674.5
57.5°	5687.7	5699.4	5948.6	6579.2	7472.4	8174.0	8419.9	8366.4	8111.3	7981.7	7173.0
60°	5112.3	5136.6	5483.6	6224.6	7324.3	8359.7	8954.3	8930.1	8650.7	8504.4	7561.0
62.5°	4092.9	4163.1	4520.2	5346.5	6636.1	8046.9	9170.9	9239.5	9022.0	8820.5	7683.1
63°	3905.5	3883.0	4260.1	5090.6	6453.8	7892.2	9174.3	9261.2	9038.8	8850.6	7649.7
65°	2891.1	2958.8	3203.9	4014.3	5370.7	7172.1	8967.7	9121.6	8976.9	8717.6	7279.2
67.5°	1623.3	1619.9	1890.9	2626.8	3759.2	5625.8	8108.8	8434.1	8404.0	7822.8	6033.9
70°	794.5	807.0	918.3	1361.5	2180.2	3881.3	6738.1	7089.3	7100.2	6144.3	4172.3
72.5°	359.6	365.5	444.9	663.2	1120.6	2066.5	4643.2	4978.5	4916.6	3915.6	2304.0
75°	189.8	202.4	245.0	333.7	540.3	852.2	2525.6	2850.1	2720.5	1788.9	848.0
77.5°	140.5	144.7	166.4	212.4	289.4	332.0	1089.7	1296.3	1214.3	647.3	281.0
80°	102.9	106.2	123.8	150.5	182.3	168.9	410.6	470.8	422.3	219.9	86.1
82.5°	62.7	63.6	90.3	112.1	114.6	94.5	135.5	145.5	152.2	123.8	46.8
85°	22.6	28.4	61.1	81.1	67.7	47.7	56.9	62.7	68.6	78.6	27.6
87.5°	2.5	3.3	29.3	39.3	19.2	17.6	20.9	23.4	25.1	29.3	13.4
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°	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6	1243.6
2.5°	1251.1	1254.5	1251.9	1247.8	1246.9	1244.4	1239.4	1239.4	1239.4	1241.1	1239.4
5°	1269.5	1272.0	1266.2	1257.8	1248.6	1236.9	1224.3	1216.8	1216.0	1214.3	1210.1
7.5°	1304.6	1308.0	1294.6	1274.5	1249.4	1221.0	1194.2	1169.2	1157.4	1148.2	1148.2
10°	1355.6	1359.0	1332.2	1296.3	1246.1	1188.4	1124.8	1067.1	1022.0	1001.1	996.0
12.5°	1416.7	1418.4	1374.0	1311.3	1228.5	1117.3	981.8	855.5	767.7	727.6	723.4
15°	1483.6	1471.9	1413.4	1317.2	1178.4	970.9	736.8	582.1	490.9	464.1	474.2
17.5°	1551.3	1529.6	1443.5	1308.0	1065.5	736.8	495.1	397.2	368.8	361.3	361.3
20°	1614.9	1584.8	1465.2	1267.8	869.8	507.6	367.1	343.7	338.7	333.7	334.5
22.5°	1678.5	1632.5	1484.4	1178.4	648.1	363.0	328.7	321.1	314.5	307.8	306.9
25°	1740.3	1676.8	1492.0	1012.8	441.6	311.9	300.2	290.2	276.8	269.3	267.6
27.5°	1804.7	1730.3	1486.9	803.7	322.0	279.3	267.6	253.4	237.5	224.1	224.1
30°	1928.5	1832.3	1469.4	577.9	271.0	245.9	230.8	208.2	190.7	177.3	176.5
32.5°	2097.4	1965.3	1409.2	406.4	240.9	216.6	194.0	168.9	150.5	140.5	140.5
35°	2248.0	2099.1	1296.3	299.4	216.6	188.2	160.6	136.3	122.1	115.4	112.9
37.5°	2477.1	2294.8	1140.7	243.4	193.2	163.1	134.6	112.1	100.4	95.3	95.3
40°	2820.9	2534.0	950.0	213.3	170.6	138.8	112.1	94.5	85.3	79.4	79.4
42.5°	3247.4	2826.7	756.9	191.5	149.7	119.6	93.7	80.3	71.9	67.7	66.9
45°	3784.3	3135.3	582.9	171.4	133.0	102.0	79.4	67.7	59.4	56.9	57.7
47.5°	4344.6	3407.1	451.6	153.9	115.4	86.1	67.7	58.5	52.7	49.3	49.3
50°	4823.0	3594.4	342.9	133.8	102.0	72.8	59.4	52.7	47.7	46.0	45.2
52.5°	5222.7	3648.8	262.6	116.2	89.5	62.7	52.7	47.7	43.5	41.0	41.0
55°	5563.1	3601.1	205.7	97.8	75.3	54.4	46.8	42.7	37.6	35.1	34.3
57.5°	5762.1	3448.1	157.2	81.1	61.1	45.2	41.0	36.0	30.1	25.9	25.9
60°	5862.5	3225.6	120.4	66.9	46.8	36.0	33.5	26.8	20.9	17.6	16.7
62.5°	5742.1	2930.4	91.2	52.7	35.1	26.8	22.6	19.2	13.4	10.0	10.0
63°	5667.6	2845.1	87.8	50.2	32.6	25.1	20.9	17.6	11.7	9.2	8.4
65°	5166.7	2472.9	71.9	40.1	25.9	17.6	14.2	12.5	8.4	4.2	3.3
67.5°	4102.9	1891.7	56.9	30.1	18.4	12.5	8.4	7.5	2.5	0.0	0.0
70°	2774.0	1221.8	44.3	21.7	12.5	7.5	4.2	3.3	0.8	0.0	0.0
72.5°	1446.8	626.4	34.3	15.9	7.5	5.0	2.5	0.8	0.0	0.0	0.0
75°	511.8	213.3	25.1	10.0	5.0	2.5	0.8	0.0	0.0	0.0	0.0
77.5°	154.7	79.4	15.9	7.5	3.3	1.7	0.0	0.0	0.0	0.0	0.0
80°	54.4	29.3	9.2	5.0	2.5	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	26.8	14.2	5.9	4.2	2.5	0.8	0.0	0.0	0.0	0.0	0.0
85°	15.1	9.2	5.0	4.2	2.5	1.7	0.0	0.0	0.0	0.0	0.0
87.5°	10.9	6.7	5.0	4.2	3.3	1.7	0.8	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)