

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: P647911

Luminaire Tested: **GALN-SA4A-835-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10247.1 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

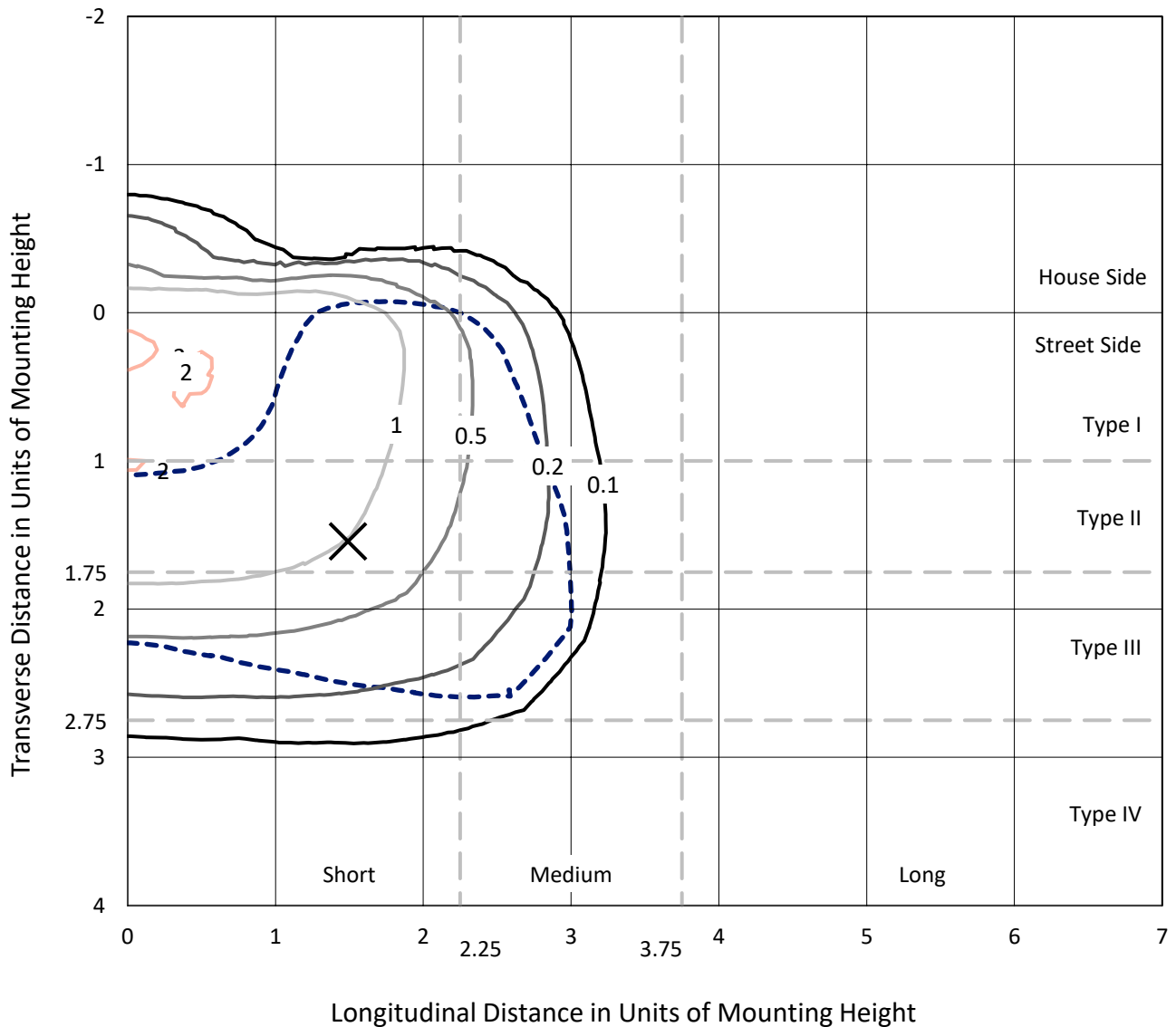
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

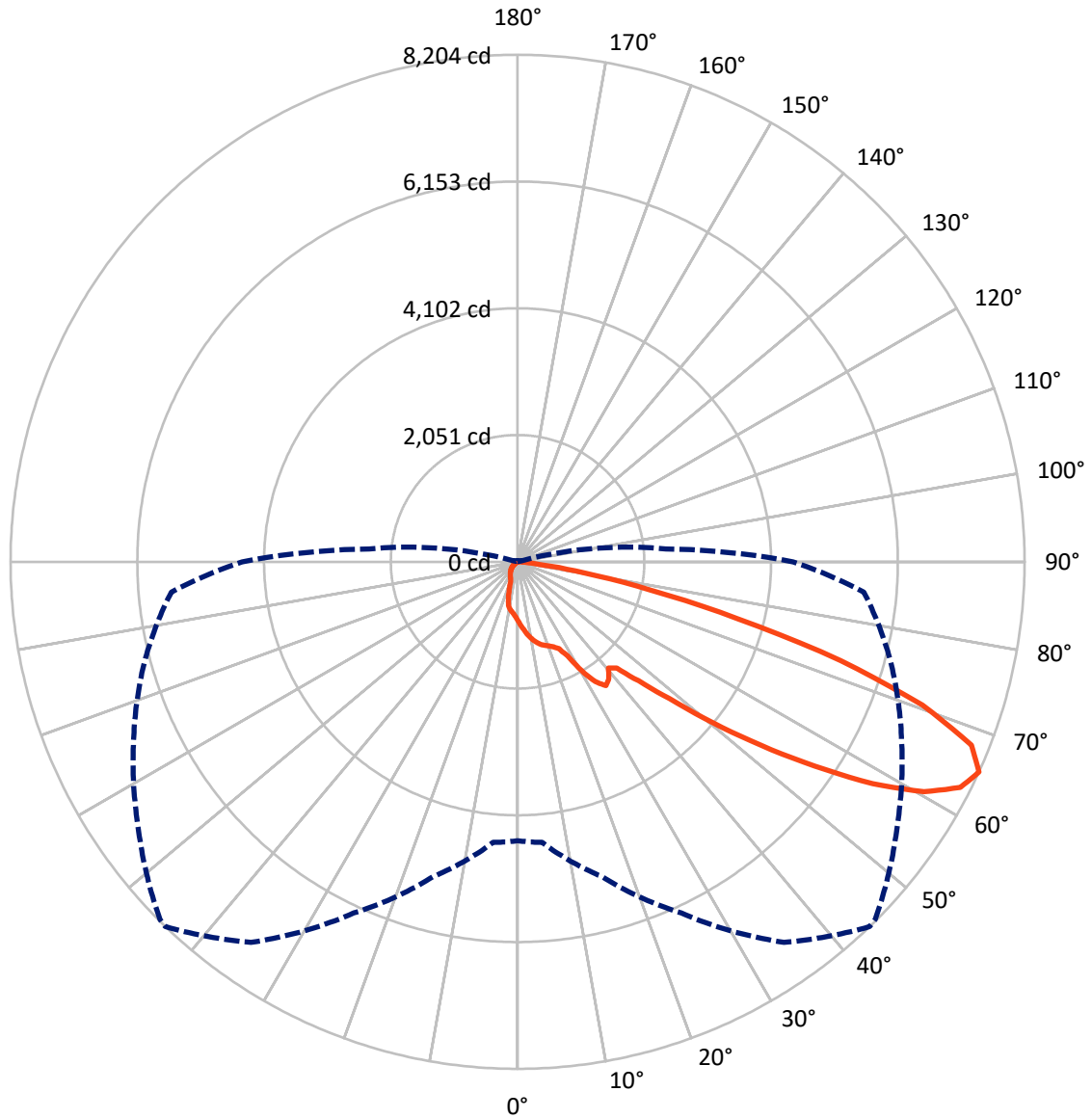
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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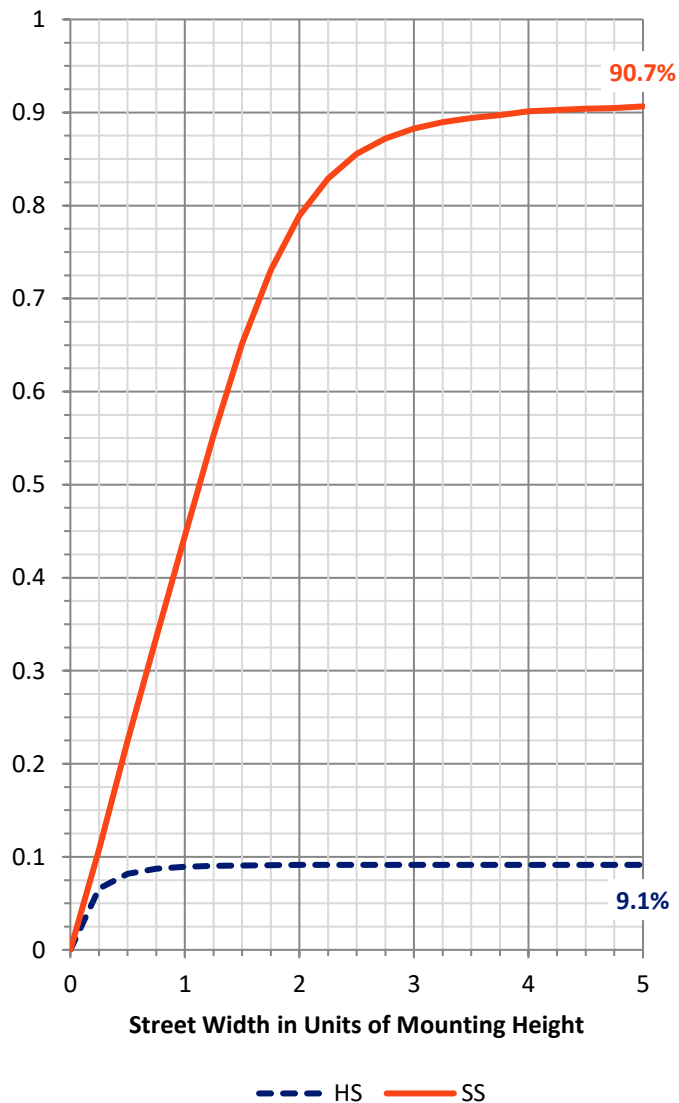
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	944.1	0.0	944.1
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	9303.0	0.0	9303.0
	% Fixture	90.8	0.0	90.8
Total	Lumens	10247.1	0.0	10247.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.9	0.9
10°-20°	285.5	2.8
20°-30°	484.1	4.7
30°-40°	804.9	7.9
40°-50°	1405.3	13.7
50°-60°	2745.5	26.8
60°-70°	3185.4	31.1
70°-80°	1159.9	11.3
80°-90°	81.7	0.8
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°	10247.1	100.0
0°-180°	10247.1	100.0

Coefficient of Utilization

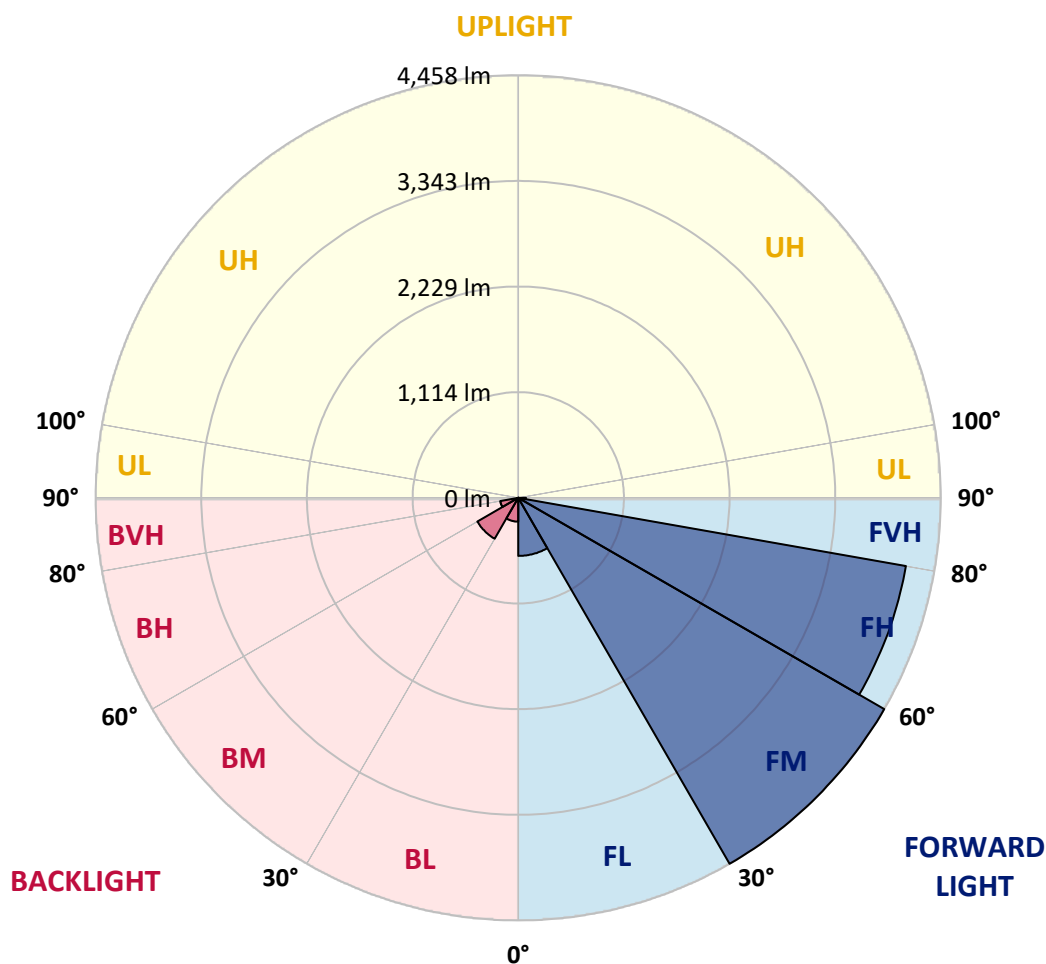


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	612.9	6.0			
FM (30°-60°)	4457.5	43.5			
FH (60°-80°)	4152.0	40.5			G2/5000
FVH (80°-90°)	80.6	0.8			G1/100
BL (0°-30°)	251.5	2.5	B1/500		
BM (30°-60°)	498.1	4.9	B1/1000		
BH (60°-80°)	193.3	1.9	B1/500		G1/500
BVH (80°-90°)	1.1	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°	44°	45°	55°	65°	75°	85°
0°	953.7	953.7	953.7	953.7	953.7	953.7	953.7	953.7	953.7	953.7	953.7
2.5°	1073.5	1068.8	1066.4	1053.9	1044.5	1032.8	1032.8	1017.9	1000.7	981.9	964.7
5°	1193.3	1185.5	1175.3	1164.3	1142.4	1111.1	1111.1	1079.8	1043.7	1011.6	976.4
7.5°	1308.4	1301.3	1284.1	1263.0	1227.0	1194.1	1191.7	1146.3	1103.2	1054.7	1004.6
10°	1409.4	1403.9	1389.0	1348.3	1310.7	1267.7	1266.9	1216.0	1165.9	1106.4	1044.5
12.5°	1479.9	1480.7	1461.1	1421.9	1373.4	1332.7	1329.5	1279.4	1227.0	1162.8	1086.8
15°	1530.0	1530.0	1509.6	1465.8	1421.9	1385.9	1382.8	1338.9	1284.9	1215.2	1133.0
17.5°	1544.1	1548.8	1526.9	1487.7	1452.5	1421.1	1420.4	1383.6	1340.5	1273.2	1180.0
20°	1538.6	1543.3	1526.1	1495.5	1471.3	1453.2	1450.9	1436.0	1396.1	1332.7	1230.1
22.5°	1526.9	1531.5	1519.0	1501.0	1489.3	1494.7	1490.8	1503.4	1482.2	1405.5	1289.6
25°	1529.2	1533.9	1524.5	1514.3	1524.5	1558.2	1568.3	1622.4	1603.6	1497.9	1353.8
27.5°	1602.8	1612.2	1598.9	1603.6	1639.6	1717.9	1737.5	1830.7	1747.7	1615.3	1454.0
30°	1766.4	1760.2	1735.1	1757.8	1883.1	2049.1	2043.6	2028.8	1898.8	1750.8	1573.0
32.5°	1915.2	1909.7	1908.2	2006.0	2233.1	2313.8	2309.8	2165.8	2034.2	1905.8	1690.5
35°	1975.5	1954.4	1949.7	2186.9	2566.7	2460.2	2435.9	2222.2	2198.7	2075.0	1810.3
37.5°	2157.2	2142.3	2069.5	2216.7	2433.6	2398.3	2379.5	2319.2	2374.1	2224.5	1945.8
40°	2531.4	2489.9	2424.2	2280.1	2244.9	2259.7	2278.5	2443.7	2581.6	2428.9	2126.6
42.5°	2996.5	2987.1	2865.0	2596.4	2332.6	2352.9	2377.2	2703.7	2879.9	2736.6	2421.8
45°	3554.8	3568.1	3392.0	3074.8	2728.8	2746.0	2781.2	3087.4	3283.9	3215.0	2886.1
47.5°	4062.2	4052.0	3992.5	3662.9	3343.4	3305.0	3362.2	3579.9	3843.0	3853.9	3462.4
50°	4572.7	4626.7	4538.3	4409.1	4171.8	4091.2	4070.0	4176.5	4577.4	4525.0	4154.6
52.5°	5306.5	5334.7	5168.7	5135.8	5189.8	4928.2	4907.1	4932.9	5291.6	5111.5	4672.9
55°	5767.7	5751.2	5689.4	5946.2	6159.9	5833.4	5806.8	5702.7	5884.3	5525.7	5171.8
57.5°	5913.3	5936.8	6080.9	6545.2	7051.0	6773.8	6725.3	6429.3	6311.8	5911.7	5630.6
60°	5848.3	5891.4	6202.2	6892.8	7594.4	7552.9	7511.4	7014.2	6618.8	6234.3	5952.4
62.5°	5385.6	5445.8	5943.0	6831.0	7778.4	8037.6	7985.9	7379.1	6823.1	6390.9	6008.8
65°	4513.2	4557.8	5272.0	6269.6	7516.9	8203.6	8184.8	7493.4	6855.2	6247.6	5622.8
67.5°	3217.3	3369.2	4030.9	5283.8	6743.3	7920.1	7952.2	7356.4	6553.8	5628.3	4656.5
70°	2022.5	2125.8	2600.3	3782.7	5405.9	6948.4	7054.1	6729.2	5687.8	4387.1	3117.1
72.5°	964.7	1041.4	1379.6	2394.4	3815.6	5467.0	5550.8	5524.1	4398.1	2764.0	1608.3
75°	429.9	458.8	658.5	1222.3	2463.3	3674.6	3891.5	3927.5	2748.3	1352.2	625.6
77.5°	219.2	220.0	308.5	591.9	1230.1	2192.4	2235.5	2361.5	1490.0	595.9	217.7
80°	116.7	124.5	163.6	279.5	638.1	1079.8	1074.3	1180.8	660.9	292.1	72.8
82.5°	52.5	57.9	92.4	146.4	311.6	409.5	441.6	483.1	283.4	186.4	32.1
85°	15.7	18.8	45.4	73.6	112.8	118.2	132.3	170.7	160.5	132.3	16.4
87.5°	2.3	2.3	18.8	20.4	16.4	21.1	21.9	24.3	51.7	48.5	8.6
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°	953.7	953.7	953.7	953.7	953.7	953.7	953.7	953.7	953.7	953.7	953.7
2.5°	955.3	949.8	930.2	913.8	899.7	891.1	880.9	874.6	871.5	869.1	869.9
5°	959.2	945.9	912.2	885.6	865.2	843.3	828.4	819.8	815.9	809.6	809.6
7.5°	981.1	960.0	913.0	872.3	837.0	807.3	779.1	768.9	761.9	760.3	758.7
10°	1012.4	985.8	921.6	865.2	815.1	774.4	734.5	699.2	671.8	655.4	653.0
12.5°	1051.6	1013.2	934.9	860.5	796.3	724.3	618.6	547.3	499.6	484.7	487.0
15°	1087.6	1046.1	948.2	856.6	761.9	600.6	480.8	399.3	375.1	372.7	373.5
17.5°	1130.7	1081.3	963.9	851.1	667.1	458.8	357.0	335.1	339.8	347.7	346.9
20°	1175.3	1118.9	982.7	818.2	532.4	345.3	315.5	317.9	324.9	332.0	333.6
22.5°	1223.0	1162.0	1004.6	739.2	406.4	300.7	299.1	302.2	309.3	317.1	318.7
25°	1288.8	1216.0	1021.0	635.8	307.7	278.0	281.1	286.6	292.8	301.5	303.0
27.5°	1373.4	1288.8	1029.6	501.1	266.2	257.6	258.4	266.2	274.0	281.9	281.9
30°	1483.0	1375.7	1012.4	379.0	245.9	238.0	234.9	239.6	249.8	257.6	258.4
32.5°	1580.9	1457.9	967.0	289.7	231.0	220.0	212.2	213.0	216.9	221.6	222.4
35°	1678.8	1537.8	889.5	243.5	215.3	202.8	191.1	184.8	181.7	179.3	181.7
37.5°	1804.0	1637.3	786.1	221.6	202.0	186.4	169.9	156.6	145.6	138.6	140.2
40°	1965.3	1775.1	664.0	207.5	189.5	170.7	148.8	131.5	112.8	106.5	103.4
42.5°	2231.6	1984.1	535.6	195.8	177.0	154.3	126.8	103.4	86.1	79.9	81.4
45°	2652.0	2248.0	412.6	183.2	164.4	136.2	106.5	81.4	67.3	64.2	65.8
47.5°	3209.5	2589.4	317.9	169.1	148.8	116.7	83.8	64.2	55.6	54.8	54.0
50°	3734.1	2907.3	265.4	153.5	130.0	97.1	68.9	54.0	48.5	47.8	47.8
52.5°	4208.6	3135.1	216.1	135.5	109.6	79.9	57.9	47.8	43.1	40.7	40.7
55°	4630.7	3283.9	175.4	113.5	86.1	63.4	50.1	43.1	37.6	34.5	33.7
57.5°	4949.3	3301.9	131.5	90.8	64.2	49.3	43.1	37.6	31.3	27.4	25.8
60°	5085.7	3146.1	97.1	68.9	47.8	39.2	34.5	30.5	23.5	19.6	18.8
62.5°	4948.6	2843.1	72.0	52.5	36.8	29.0	24.3	22.7	16.4	11.7	11.0
65°	4457.6	2405.4	57.2	39.9	27.4	21.1	15.7	14.9	10.2	5.5	4.7
67.5°	3571.3	1883.9	45.4	29.8	19.6	14.1	10.2	9.4	5.5	1.6	1.6
70°	2322.4	1204.3	36.8	21.9	12.5	9.4	6.3	4.7	3.1	0.8	0.0
72.5°	1148.7	563.0	29.8	17.2	8.6	4.7	2.3	1.6	2.3	0.0	0.0
75°	445.5	200.4	21.9	11.7	4.7	2.3	1.6	0.0	0.8	0.0	0.0
77.5°	148.0	66.6	13.3	6.3	3.1	1.6	0.0	0.0	0.0	0.0	0.0
80°	54.8	25.8	7.0	3.9	1.6	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	21.9	10.2	4.7	3.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.0	6.3	3.1	2.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	4.7	3.1	2.3	1.6	0.8	0.0	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)