

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: P527255

Luminaire Tested: **GALN-SA2B-730-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527255
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-730-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6223 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

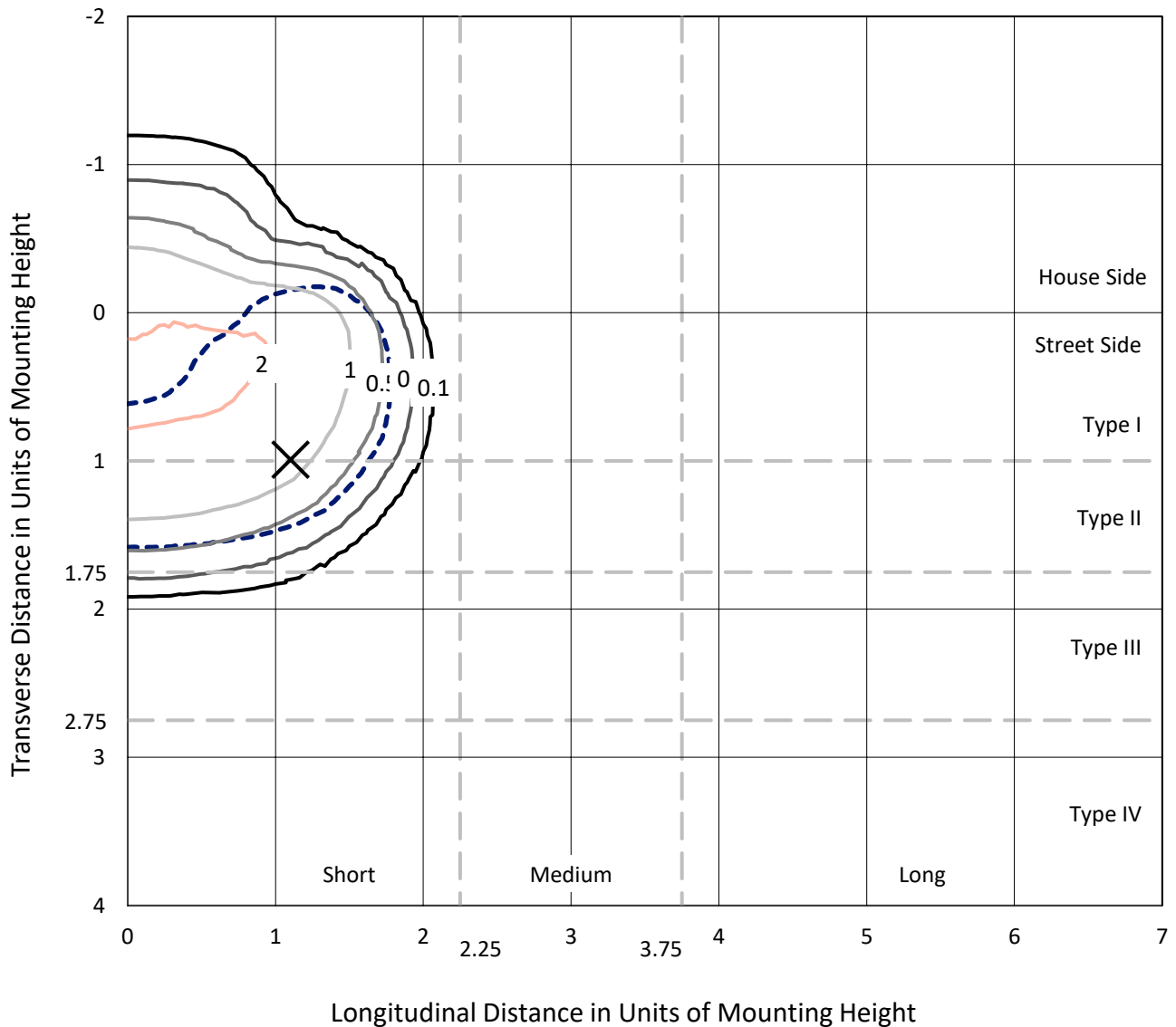
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

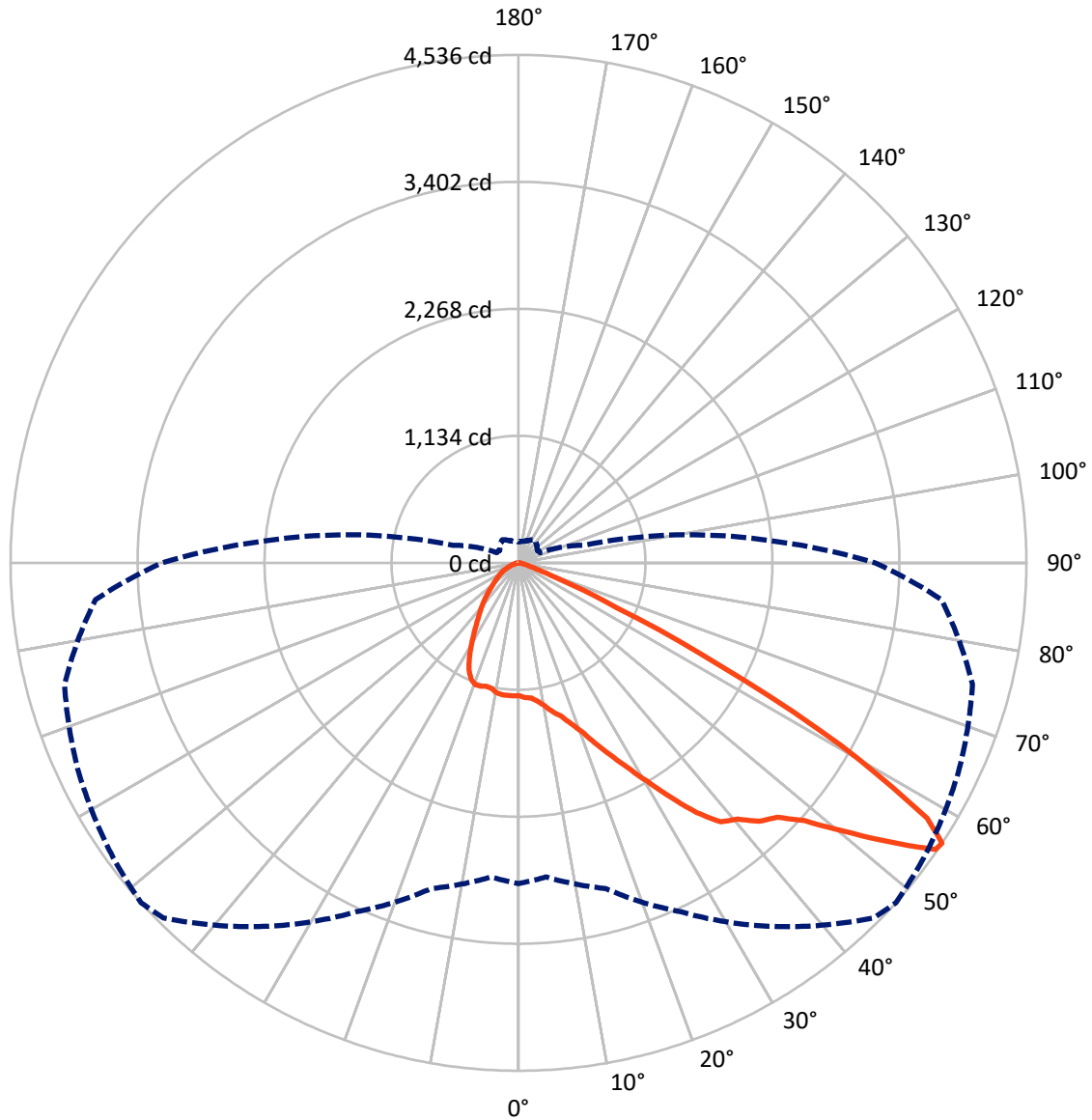
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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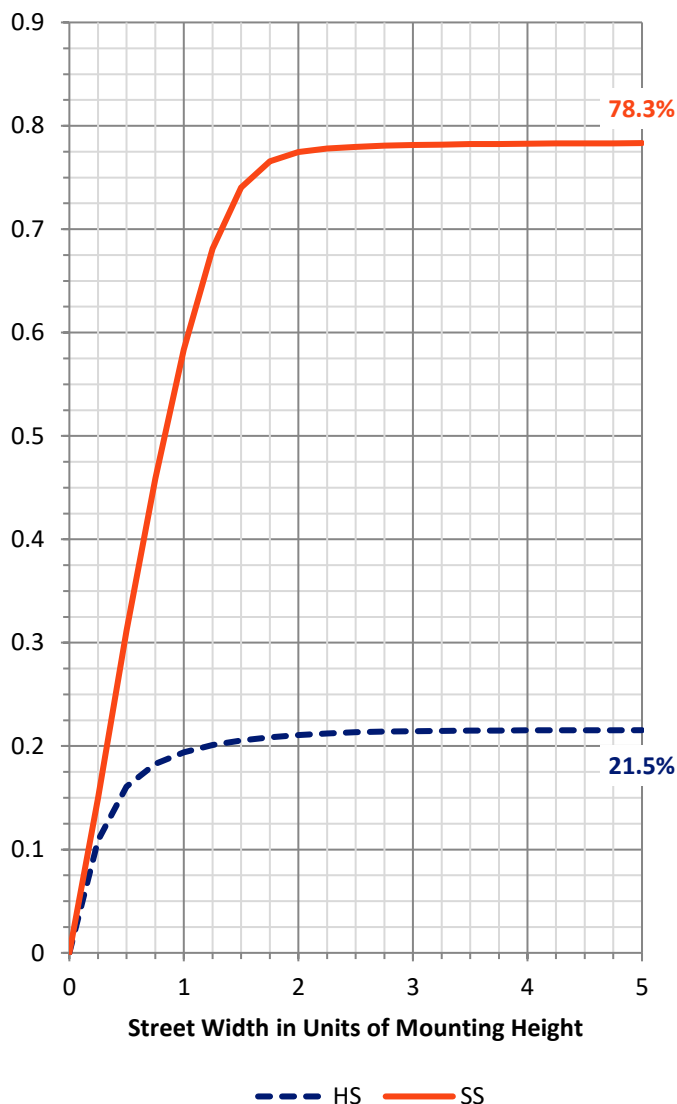
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1353.4	0.0	1353.4
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	4869.6	0.0	4869.6
	% Fixture	78.3	0.0	78.3
Total	Lumens	6223.0	0.0	6223.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.8	1.9
10°-20°	370.0	5.9
20°-30°	671.1	10.8
30°-40°	1054.2	16.9
40°-50°	1537.9	24.7
50°-60°	1852.9	29.8
60°-70°	542.5	8.7
70°-80°	68.8	1.1
80°-90°	9.6	0.2
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°	6223.0	100.0
0°-180°	6223.0	100.0

Coefficient of Utilization

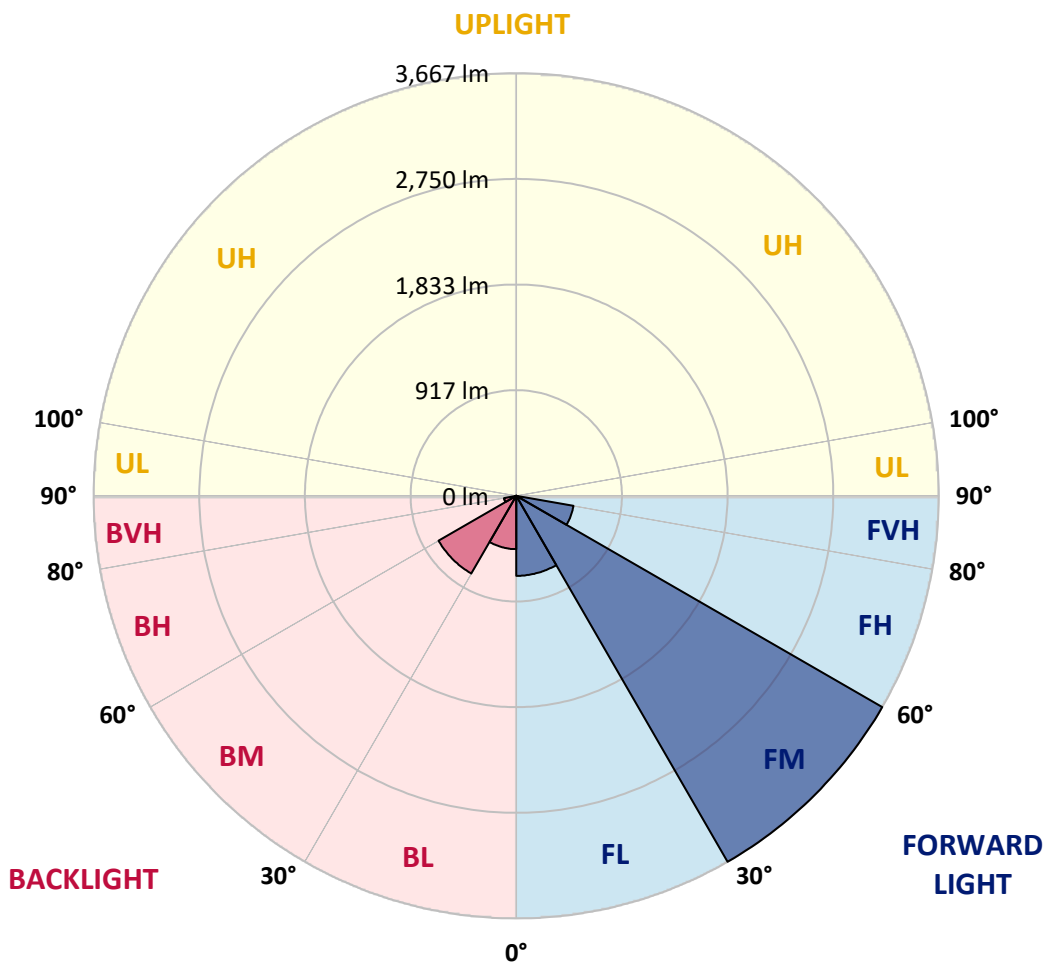


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	694.4	11.2			
FM (30°-60°)	3666.6	58.9			
FH (60°-80°)	503.8	8.1			G0/660
FVH (80°-90°)	4.8	0.1			G0/10
BL (0°-30°)	462.6	7.4	B1/500		
BM (30°-60°)	778.5	12.5	B1/1000		
BH (60°-80°)	107.5	1.7	B0/110		G0/110
BVH (80°-90°)	4.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1188.6	1188.6	1188.6	1188.6	1188.6	1188.6	1188.6	1188.6	1188.6	1188.6	1188.6
2.5°	1210.1	1204.5	1204.5	1195.4	1205.6	1201.1	1204.5	1193.1	1204.5	1187.5	1201.1
5°	1215.8	1216.9	1212.4	1218.1	1218.1	1224.9	1213.5	1223.7	1229.4	1216.9	1211.3
7.5°	1245.2	1247.5	1246.4	1241.9	1250.9	1249.8	1248.6	1240.7	1243.0	1238.5	1231.7
10°	1303.0	1301.9	1307.6	1296.2	1289.4	1297.4	1299.6	1287.2	1278.1	1274.7	1253.2
12.5°	1386.9	1373.3	1365.4	1354.0	1357.4	1346.1	1366.5	1345.0	1340.4	1320.0	1298.5
15°	1454.9	1452.6	1453.7	1435.6	1415.2	1419.7	1419.7	1408.4	1401.6	1376.7	1346.1
17.5°	1594.2	1546.6	1556.8	1534.2	1517.2	1516.1	1505.9	1508.1	1490.0	1437.9	1391.4
20°	1703.0	1682.6	1666.8	1628.2	1602.2	1610.1	1605.6	1594.2	1588.6	1520.6	1454.9
22.5°	1800.5	1807.3	1781.2	1771.0	1734.7	1738.1	1747.2	1737.0	1693.9	1623.7	1526.3
25°	1937.6	1929.6	1894.5	1882.0	1848.0	1860.5	1895.6	1887.7	1860.5	1733.6	1581.8
27.5°	2099.6	2072.4	2079.2	2022.5	1989.7	2024.8	2066.7	2106.4	2029.3	1862.8	1647.5
30°	2214.0	2185.7	2183.4	2181.2	2173.2	2214.0	2262.8	2299.0	2236.7	1991.9	1756.3
32.5°	2270.7	2277.5	2296.7	2289.9	2359.1	2442.9	2493.9	2546.0	2467.8	2202.7	1900.2
35°	2421.4	2378.3	2421.4	2425.9	2497.3	2675.2	2739.8	2864.4	2845.2	2500.7	2075.8
37.5°	2509.8	2506.4	2512.0	2555.1	2624.2	2844.0	2935.8	3032.1	2995.9	2679.7	2294.5
40°	2655.9	2665.0	2663.9	2696.7	2772.6	2970.9	3008.3	3086.5	3089.9	2927.9	2616.3
42.5°	2890.5	2854.2	2830.4	2864.4	2970.9	3080.8	3155.6	3139.8	3251.9	3229.3	3029.8
45°	3101.2	3122.8	3087.6	3144.3	3182.8	3241.7	3239.5	3273.5	3416.2	3523.9	3341.4
47.5°	3298.4	3312.0	3329.0	3367.5	3451.3	3460.4	3441.1	3426.4	3623.6	3734.6	3582.8
50°	3416.2	3428.7	3508.0	3577.1	3733.5	3753.9	3765.2	3727.8	3861.5	3874.0	3810.5
52.5°	3384.5	3398.1	3509.1	3736.9	3986.2	4173.1	4139.1	4075.7	4067.7	4116.5	4021.3
55°	3103.5	3091.0	3244.0	3598.6	4065.5	4514.2	4518.7	4451.9	4323.8	4291.0	3989.6
56°	2864.4	2815.7	3010.6	3438.9	3963.5	4484.7	4535.7	4464.3	4344.2	4196.9	3793.5
57.5°	2346.6	2393.1	2586.8	2941.5	3611.1	4272.8	4302.3	4285.3	4194.6	3947.6	3338.0
60°	1294.0	1375.6	1546.6	1980.6	2570.9	3279.1	3302.9	3441.1	3458.1	3023.0	2296.7
62.5°	549.5	540.5	718.4	1037.9	1463.9	1979.5	2023.7	2165.3	2191.4	1742.7	1152.3
65°	223.2	235.7	325.2	522.3	773.9	901.9	964.2	1010.7	1096.8	719.5	424.9
67.5°	147.3	146.2	191.5	298.0	417.0	402.2	402.2	424.9	393.2	293.5	183.6
70°	105.4	108.8	137.1	206.2	259.5	192.6	184.7	176.8	200.6	193.8	148.4
72.5°	69.1	73.6	91.8	123.5	134.8	105.4	105.4	126.9	165.4	156.4	121.2
75°	45.3	46.5	56.7	71.4	66.9	54.4	60.1	85.0	120.1	115.6	86.1
77.5°	30.6	31.7	38.5	46.5	37.4	30.6	32.9	43.1	58.9	58.9	45.3
80°	11.3	12.5	15.9	14.7	17.0	21.5	23.8	29.5	35.1	35.1	30.6
82.5°	0.0	1.1	3.4	7.9	12.5	17.0	19.3	22.7	26.1	29.5	28.3
85°	0.0	1.1	3.4	5.7	9.1	10.2	11.3	7.9	6.8	6.8	5.7
87.5°	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	2.3	1.1	1.1
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°	1188.6	1188.6	1188.6	1188.6	1188.6	1188.6	1188.6	1188.6	1188.6	1188.6	1188.6
2.5°	1188.6	1187.5	1187.5	1184.1	1190.9	1187.5	1189.7	1188.6	1173.9	1185.2	1177.3
5°	1201.1	1209.0	1196.5	1194.3	1185.2	1188.6	1188.6	1177.3	1187.5	1186.3	1184.1
7.5°	1232.8	1219.2	1205.6	1192.0	1189.7	1186.3	1173.9	1169.3	1177.3	1168.2	1181.8
10°	1246.4	1248.6	1228.3	1210.1	1193.1	1169.3	1152.3	1142.1	1129.7	1143.3	1151.2
12.5°	1308.7	1286.0	1250.9	1222.6	1164.8	1141.0	1124.0	1119.5	1141.0	1145.5	1137.6
15°	1330.2	1326.8	1281.5	1218.1	1158.0	1129.7	1133.1	1124.0	1126.3	1114.9	1117.2
17.5°	1374.4	1335.9	1282.6	1203.3	1156.9	1150.1	1129.7	1093.4	1073.0	1064.0	1071.9
20°	1423.1	1385.8	1308.7	1209.0	1167.1	1148.9	1082.1	1037.9	996.0	973.3	974.4
22.5°	1466.2	1419.7	1297.4	1211.3	1176.1	1101.3	1020.9	933.7	881.5	846.4	847.5
25°	1518.3	1452.6	1301.9	1215.8	1152.3	1025.4	909.9	824.9	762.6	738.8	746.7
27.5°	1547.8	1473.0	1326.8	1226.0	1090.0	917.8	793.2	713.8	677.6	666.2	665.1
30°	1636.2	1518.3	1357.4	1205.6	985.8	802.2	686.6	637.9	602.8	592.6	594.9
32.5°	1767.6	1601.0	1397.1	1152.3	879.3	699.1	617.5	581.3	548.4	529.1	526.9
35°	1877.5	1742.7	1439.0	1069.6	755.8	619.8	568.8	523.5	473.6	452.1	446.4
37.5°	2087.1	1902.4	1429.9	945.0	637.9	560.9	516.7	461.2	418.1	388.6	385.2
40°	2365.9	2089.4	1385.8	793.2	550.7	508.8	461.2	407.9	354.7	329.7	327.5
42.5°	2704.7	2318.3	1305.3	639.1	463.4	456.6	413.6	352.4	304.8	286.7	287.8
45°	2980.0	2514.3	1223.7	513.3	398.8	405.6	368.2	310.5	277.6	262.9	262.9
47.5°	3224.7	2646.9	1135.3	423.8	338.8	354.7	321.8	287.8	259.5	248.1	245.9
50°	3460.4	2781.7	1047.0	343.3	288.9	304.8	301.4	274.2	251.5	237.9	239.1
52.5°	3607.7	2803.2	934.8	281.0	252.7	270.8	282.1	257.2	232.3	224.3	222.1
55°	3427.6	2525.6	725.2	231.1	214.2	237.9	259.5	231.1	211.9	198.3	197.2
56°	3185.1	2258.2	606.2	213.0	202.8	228.9	251.5	220.9	199.4	191.5	185.8
57.5°	2696.7	1848.0	447.6	189.2	188.1	213.0	239.1	210.8	185.8	179.0	179.0
60°	1681.5	1040.2	270.8	158.6	163.2	189.2	215.3	188.1	165.4	165.4	168.8
62.5°	766.0	432.8	164.3	134.8	140.5	163.2	191.5	170.0	157.5	170.0	172.2
65°	260.6	187.0	119.0	107.6	111.0	134.8	164.3	172.2	171.1	179.0	183.6
67.5°	146.2	120.1	99.7	89.5	87.2	99.7	134.8	172.2	165.4	162.0	164.3
70°	123.5	102.0	88.4	79.3	75.9	80.4	104.2	130.3	116.7	113.3	111.0
72.5°	99.7	85.0	77.0	71.4	61.2	52.1	47.6	49.9	55.5	58.9	64.6
75°	70.3	64.6	64.6	57.8	44.2	32.9	26.1	21.5	14.7	10.2	11.3
77.5°	39.7	39.7	40.8	35.1	28.3	21.5	15.9	11.3	5.7	2.3	1.1
80°	27.2	29.5	31.7	28.3	23.8	19.3	13.6	7.9	3.4	0.0	0.0
82.5°	27.2	30.6	32.9	28.3	23.8	18.1	13.6	7.9	3.4	1.1	0.0
85°	5.7	6.8	7.9	9.1	13.6	13.6	10.2	6.8	3.4	1.1	0.0
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	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)