

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: P527644

Luminaire Tested: **GALN-SA2C-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527644
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-830-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9873 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 108
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



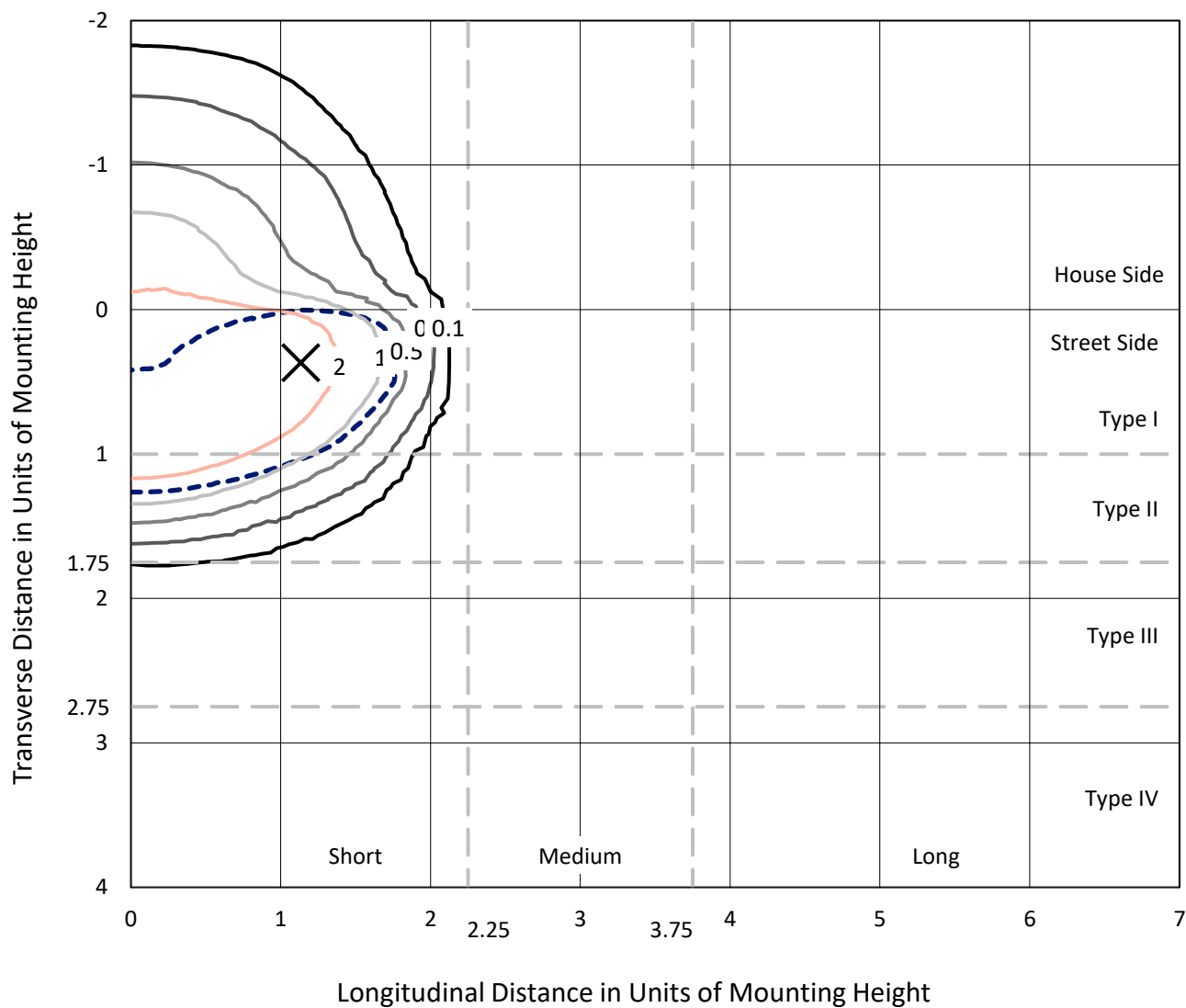
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

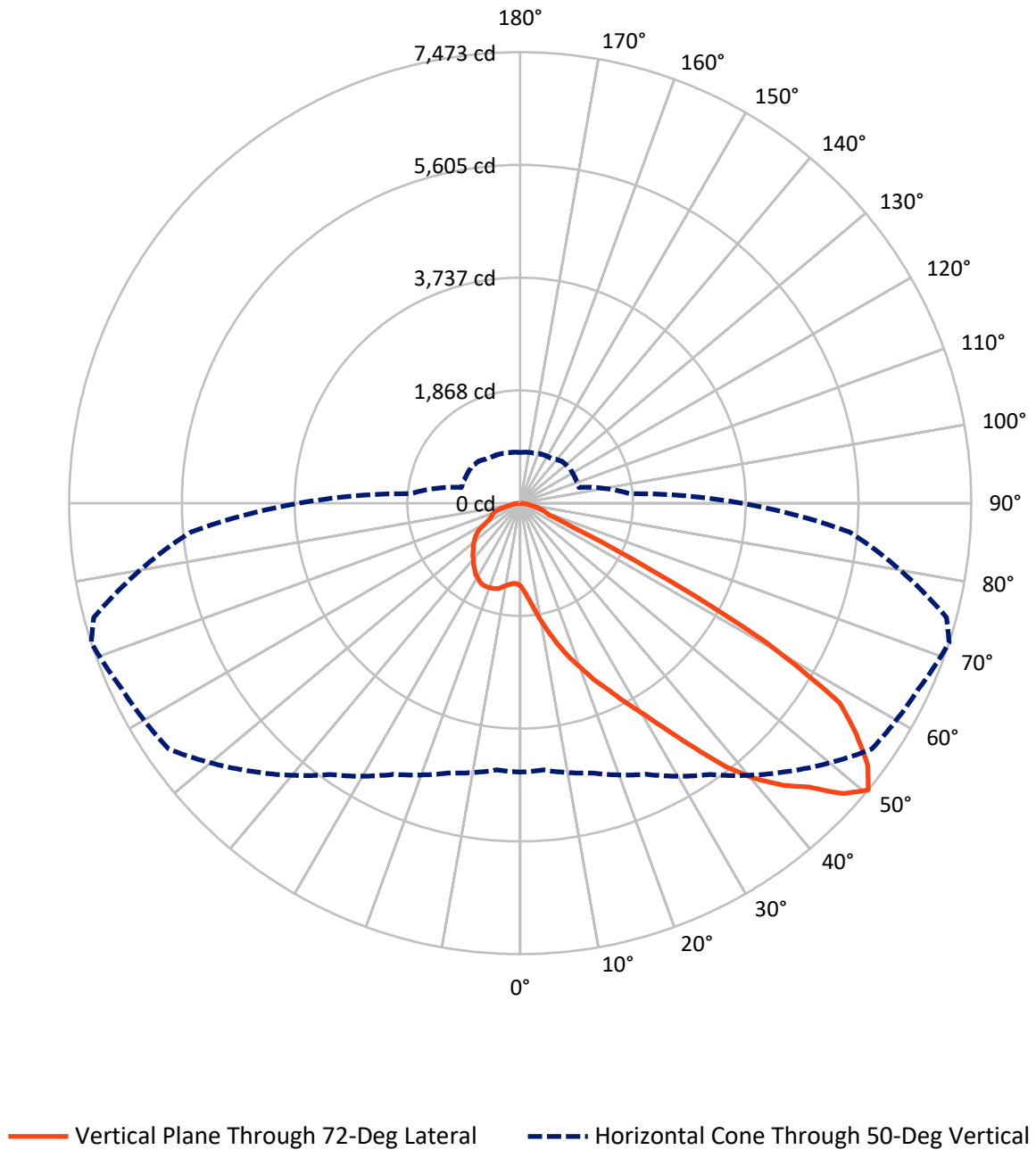
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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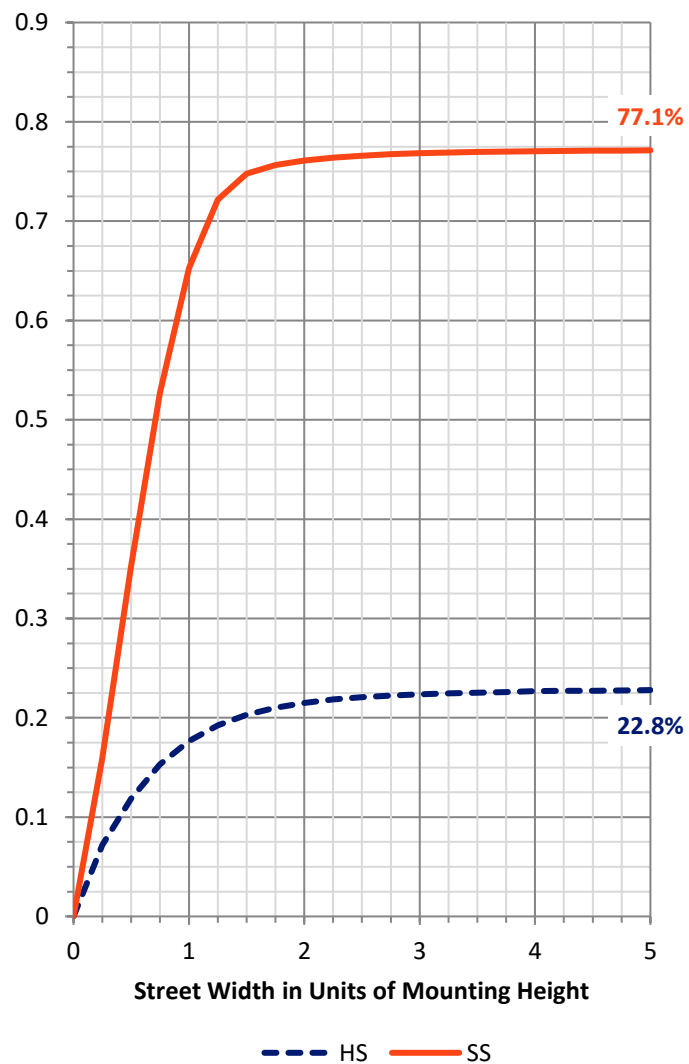
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2262.0	0.0	2262.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	7611.0	0.0	7611.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	9873.0	0.0	9873.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.7	1.6
10°-20°	604.4	6.1
20°-30°	1171.8	11.9
30°-40°	1941.3	19.7
40°-50°	2716.3	27.5
50°-60°	2291.5	23.2
60°-70°	698.5	7.1
70°-80°	245.0	2.5
80°-90°	42.6	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°	9873.0	100.0
0°-180°	9873.0	100.0

Coefficient of Utilization



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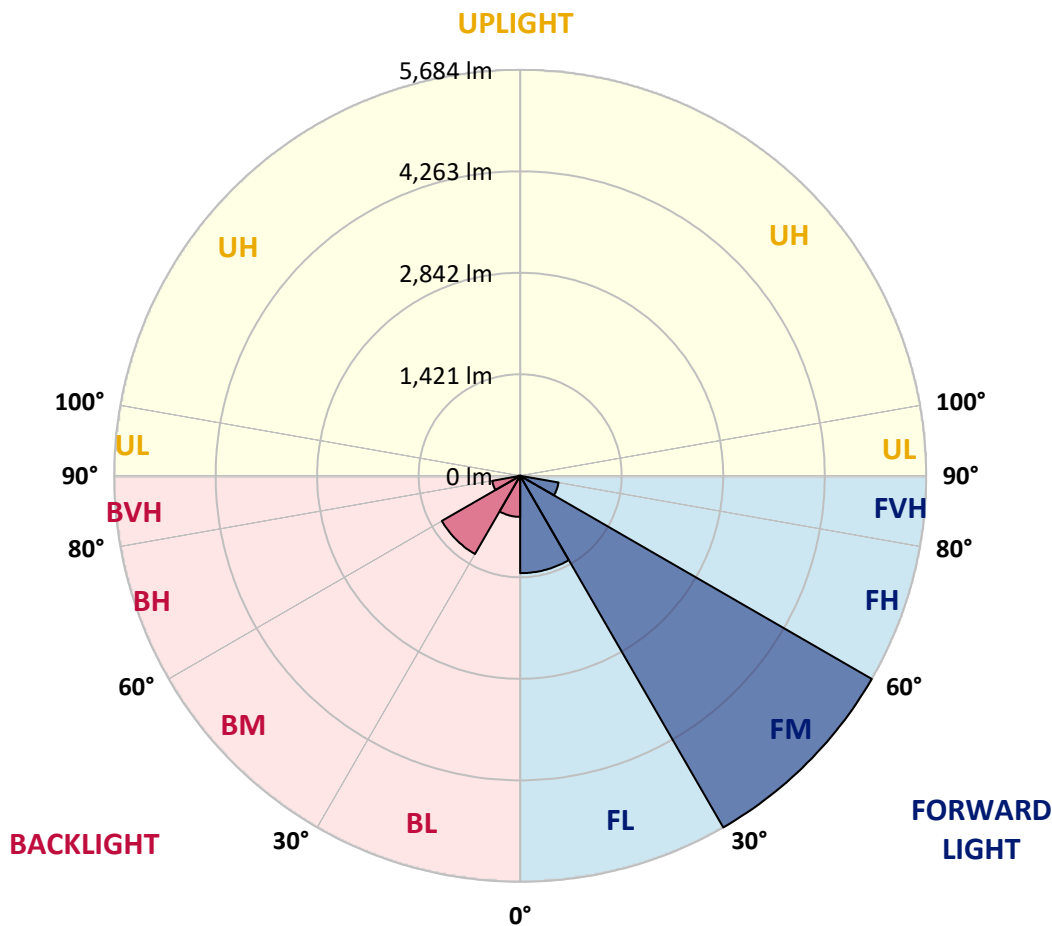
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1362.8	13.8			
FM	(30°-60°)	5684.2	57.6			
FH	(60°-80°)	545.0	5.5			G0/660
FVH	(80°-90°)	19.1	0.2			G1/100
BL	(0°-30°)	575.0	5.8	B2/1000		
BM	(30°-60°)	1264.9	12.8	B2/2500		
BH	(60°-80°)	398.5	4.0	B1/500		G1/500
BVH	(80°-90°)	23.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4
2.5°	1767.8	1756.8	1723.8	1712.8	1673.7	1602.9	1578.4	1506.3	1475.8	1447.7	1414.7
5°	2235.7	2184.4	2180.7	2118.4	2028.0	1975.5	1819.1	1714.0	1617.5	1568.7	1478.2
7.5°	2533.8	2535.0	2535.0	2483.7	2411.6	2278.5	2138.0	1948.6	1803.2	1731.1	1577.2
10°	2817.2	2792.8	2779.4	2774.5	2725.6	2596.1	2445.8	2211.3	2012.1	1927.8	1651.7
12.5°	3017.6	2996.8	3027.4	3011.5	2976.0	2891.7	2750.0	2482.5	2233.3	2119.6	1771.5
15°	3112.9	3127.5	3152.0	3196.0	3180.1	3148.3	2991.9	2761.0	2471.5	2343.2	1877.7
17.5°	3259.5	3219.2	3248.5	3303.5	3347.4	3332.8	3243.6	2962.6	2707.3	2549.7	2020.7
20°	3362.1	3338.9	3353.6	3417.1	3450.1	3533.1	3486.7	3226.5	2933.3	2767.1	2189.3
22.5°	3655.3	3621.1	3573.5	3583.2	3595.4	3654.1	3665.1	3516.0	3196.0	3020.0	2349.3
25°	4016.9	3985.2	3929.0	3871.5	3836.1	3825.1	3863.0	3743.3	3447.6	3265.6	2521.6
27.5°	4415.2	4361.4	4326.0	4207.5	4112.2	4097.6	4079.2	4014.5	3745.7	3549.0	2715.8
30°	4802.5	4759.7	4712.1	4522.7	4423.8	4407.9	4317.5	4335.8	4069.5	3850.8	2935.7
32.5°	5095.7	5099.4	4990.6	4847.7	4754.8	4670.5	4637.6	4690.1	4484.8	4308.9	3181.3
35°	5332.7	5343.7	5239.8	5110.3	5010.2	5068.8	5054.1	5078.6	4980.8	4765.8	3467.2
37.5°	5563.6	5508.6	5397.4	5335.1	5282.6	5379.1	5503.7	5524.5	5542.8	5289.9	3799.5
40°	5601.5	5606.4	5541.6	5585.6	5519.6	5665.0	5954.5	5927.7	6002.2	5781.1	4159.9
42.5°	5547.7	5558.7	5584.4	5646.7	5805.5	5980.2	6410.2	6300.3	6390.7	6194.0	4510.5
45°	5459.8	5414.5	5446.3	5683.3	5958.2	6346.7	6826.8	6741.3	6712.0	6547.1	4928.3
47.5°	5039.5	5085.9	5184.9	5476.9	5889.8	6410.2	7122.5	7102.9	7190.9	7074.8	5308.3
50°	4456.7	4438.4	4629.0	4957.6	5490.3	6285.6	7106.6	7283.7	7473.1	7311.8	5478.1
52.5°	3337.7	3435.4	3599.1	4007.2	4767.1	5606.4	6759.6	7055.3	7209.2	7175.0	5341.2
55°	2109.9	2139.2	2238.1	2723.2	3407.3	4499.5	5794.5	6479.9	6754.7	6883.0	5215.4
57.5°	1025.0	970.0	1091.0	1480.7	1968.1	3026.1	4469.0	5644.2	6241.6	6473.8	4941.8
60°	535.1	555.9	603.5	742.8	1017.7	1571.1	2785.5	3761.6	4674.2	5030.9	3745.7
62.5°	443.5	450.8	482.6	552.2	676.8	904.1	1422.1	1833.8	2383.5	2704.8	2130.6
65°	376.3	379.9	414.2	460.6	540.0	636.5	731.8	766.0	927.3	951.7	757.5
67.5°	314.0	317.6	354.3	398.3	449.6	475.2	499.7	497.2	515.6	508.2	507.0
70°	241.9	245.6	283.4	329.9	355.5	340.9	416.6	433.7	441.0	447.1	456.9
72.5°	174.7	182.0	211.4	244.3	230.9	265.1	343.3	369.0	378.7	382.4	394.6
75°	127.1	129.5	136.8	127.1	146.6	184.5	241.9	273.7	285.9	289.5	307.9
77.5°	56.2	57.4	58.6	73.3	94.1	114.8	144.2	169.8	186.9	191.8	196.7
80°	29.3	30.5	37.9	50.1	67.2	84.3	105.1	119.7	130.7	131.9	136.8
82.5°	18.3	19.5	26.9	35.4	47.6	62.3	77.0	89.2	97.7	99.0	100.2
85°	8.6	11.0	15.9	22.0	31.8	40.3	41.5	35.4	37.9	39.1	36.7
87.5°	2.4	3.7	4.9	3.7	4.9	4.9	6.1	7.3	7.3	7.3	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°	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4	1374.4
2.5°	1396.4	1385.4	1342.6	1326.8	1285.2	1292.6	1270.6	1269.3	1264.5	1263.2	1262.0
5°	1430.6	1396.4	1345.1	1306.0	1282.8	1280.3	1264.5	1264.5	1269.3	1273.0	1264.5
7.5°	1486.8	1447.7	1361.0	1324.3	1303.5	1299.9	1288.9	1280.3	1291.3	1287.7	1277.9
10°	1551.6	1483.1	1391.5	1359.7	1325.5	1317.0	1317.0	1320.7	1302.3	1308.4	1298.7
12.5°	1623.6	1532.0	1430.6	1394.0	1353.6	1348.8	1346.3	1319.4	1329.2	1324.3	1299.9
15°	1715.3	1588.2	1480.7	1418.4	1384.2	1362.2	1330.4	1325.5	1319.4	1307.2	1296.2
17.5°	1814.2	1649.3	1503.9	1425.7	1374.4	1358.5	1334.1	1308.4	1290.1	1292.6	1284.0
20°	1898.5	1705.5	1512.5	1433.0	1367.1	1336.5	1298.7	1282.8	1263.2	1262.0	1260.8
22.5°	1998.7	1781.2	1524.7	1413.5	1345.1	1313.3	1287.7	1259.6	1246.1	1229.0	1237.6
25°	2118.4	1810.6	1527.1	1402.5	1329.2	1273.0	1259.6	1229.0	1224.1	1199.7	1204.6
27.5°	2205.2	1826.4	1507.6	1368.3	1292.6	1249.8	1225.4	1203.4	1194.8	1176.5	1171.6
30°	2321.2	1850.9	1466.0	1325.5	1255.9	1208.3	1193.6	1188.7	1164.3	1144.7	1142.3
32.5°	2453.2	1866.7	1439.2	1281.6	1218.0	1181.4	1188.7	1165.5	1135.0	1117.9	1113.0
35°	2558.2	1872.9	1372.0	1231.5	1192.4	1169.2	1160.6	1155.7	1111.7	1095.9	1083.6
37.5°	2718.3	1859.4	1315.8	1196.0	1164.3	1155.7	1148.4	1115.4	1065.3	1042.1	1025.0
40°	2905.2	1855.8	1243.7	1145.9	1137.4	1147.2	1125.2	1073.9	1004.2	978.6	966.4
42.5°	3084.8	1881.4	1198.5	1119.1	1108.1	1111.7	1081.2	1004.2	970.0	955.4	935.8
45°	3385.3	1935.2	1124.0	1077.5	1072.6	1070.2	1033.6	952.9	933.4	915.0	911.4
47.5°	3656.5	1899.7	1076.3	1034.8	1039.7	1026.2	948.0	922.4	900.4	882.1	876.0
50°	3672.4	1815.4	1009.1	1001.8	1003.0	979.8	905.3	888.2	860.1	847.9	839.3
52.5°	3589.3	1677.4	946.8	949.3	952.9	915.0	852.7	840.5	817.3	800.2	795.3
55°	3356.0	1462.4	885.7	895.5	905.3	833.2	813.6	783.1	764.8	740.3	741.6
57.5°	2956.5	1177.7	800.2	816.1	836.9	757.5	742.8	704.9	678.0	658.5	656.0
60°	1981.6	838.1	671.9	678.0	724.5	692.7	691.5	653.6	617.0	599.9	590.1
62.5°	1169.2	640.2	580.3	574.2	573.0	591.3	621.8	608.4	560.8	527.8	537.5
65°	612.1	553.4	540.0	519.2	507.0	502.1	525.3	531.4	499.7	464.2	461.8
67.5°	514.3	514.3	503.3	496.0	478.9	458.1	443.5	423.9	419.0	409.3	397.1
70°	467.9	480.1	476.5	459.4	444.7	421.5	383.6	351.8	321.3	310.3	317.6
72.5°	408.0	420.3	420.3	411.7	392.2	356.7	320.1	283.4	257.8	238.2	235.8
75°	314.0	320.1	334.7	325.0	299.3	277.3	239.5	201.6	177.1	158.8	155.2
77.5°	200.4	210.1	210.1	208.9	190.6	169.8	145.4	118.5	100.2	86.7	83.1
80°	133.2	139.3	144.2	139.3	127.1	111.2	92.8	74.5	61.1	50.1	47.6
82.5°	97.7	105.1	108.7	103.8	91.6	79.4	66.0	52.5	39.1	30.5	28.1
85°	37.9	39.1	44.0	52.5	51.3	50.1	40.3	29.3	22.0	15.9	14.7
87.5°	9.8	8.6	9.8	9.8	8.6	7.3	7.3	7.3	7.3	3.7	4.9
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)