

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: P651802

Luminaire Tested: **GALN-SA3A-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651802
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-SA3A-840-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 615mA 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: 10088.6 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

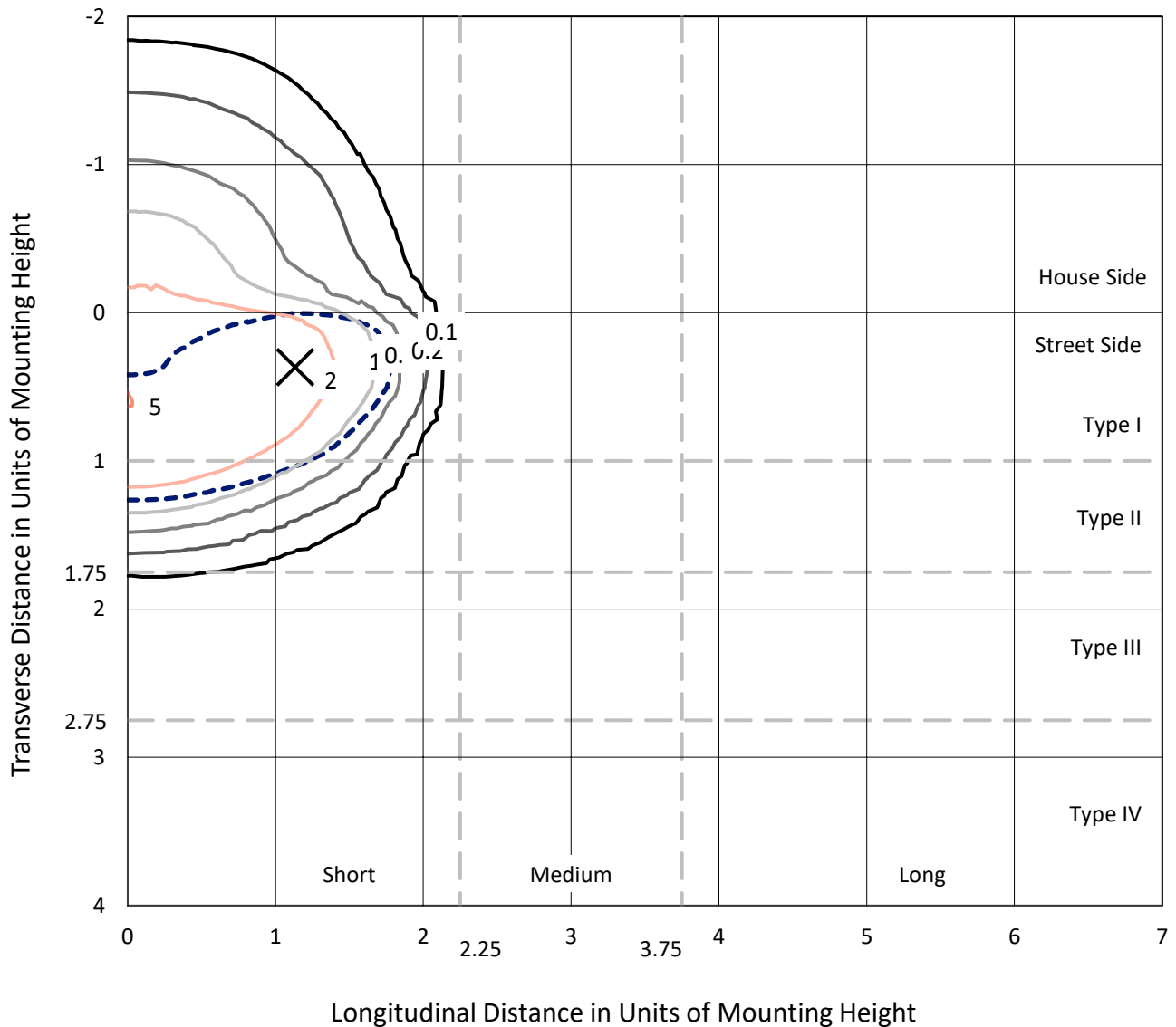
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA3A-840-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

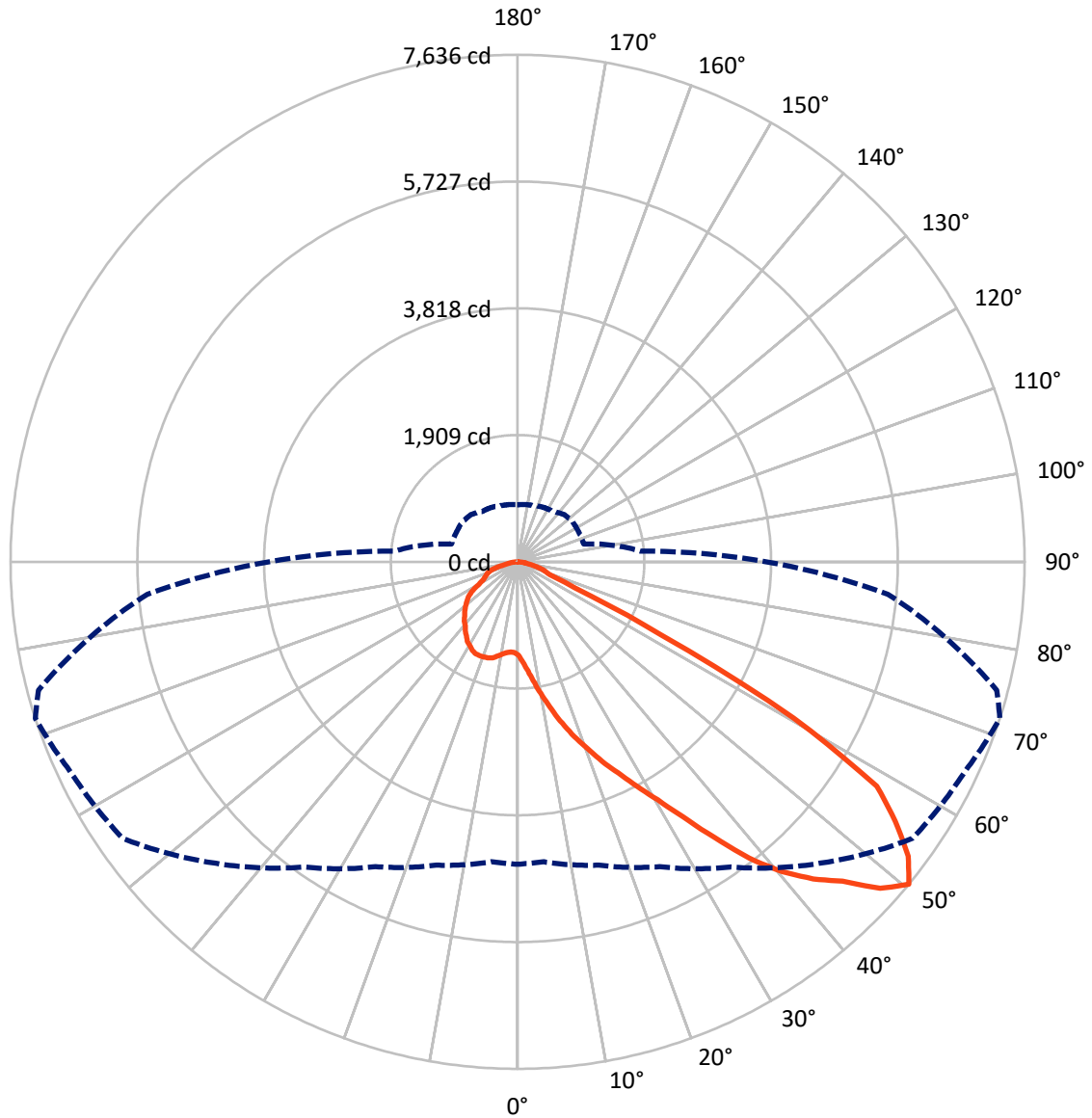
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type II - Short - N/A

REPORT NUMBER: P651802
CATALOG NUMBER: GALN-SA3A-840-U-T2R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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 CATALOG NUMBER: GALN-SA3A-840-U-T2R-GRSWH

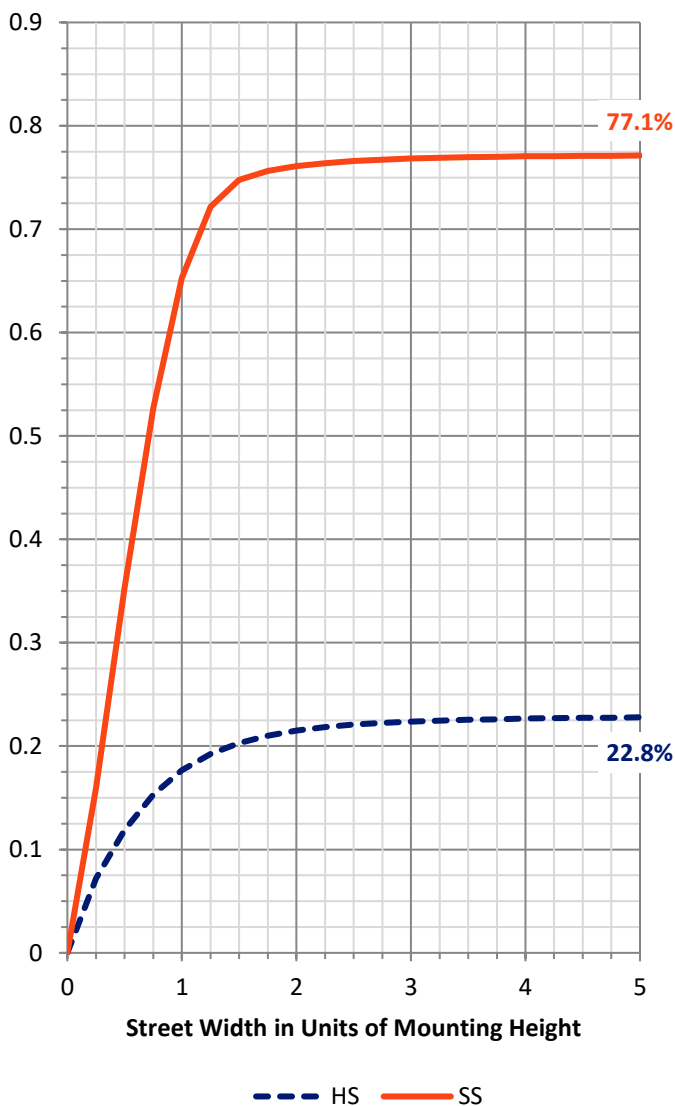
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2311.4	0.0	2311.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	7777.3	0.0	7777.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	10088.6	0.0	10088.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.2	1.6
10°-20°	617.6	6.1
20°-30°	1197.4	11.9
30°-40°	1983.7	19.7
40°-50°	2775.6	27.5
50°-60°	2341.6	23.2
60°-70°	713.7	7.1
70°-80°	250.4	2.5
80°-90°	43.5	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°	10088.6	100.0
0°-180°	10088.6	100.0

Coefficient of Utilization



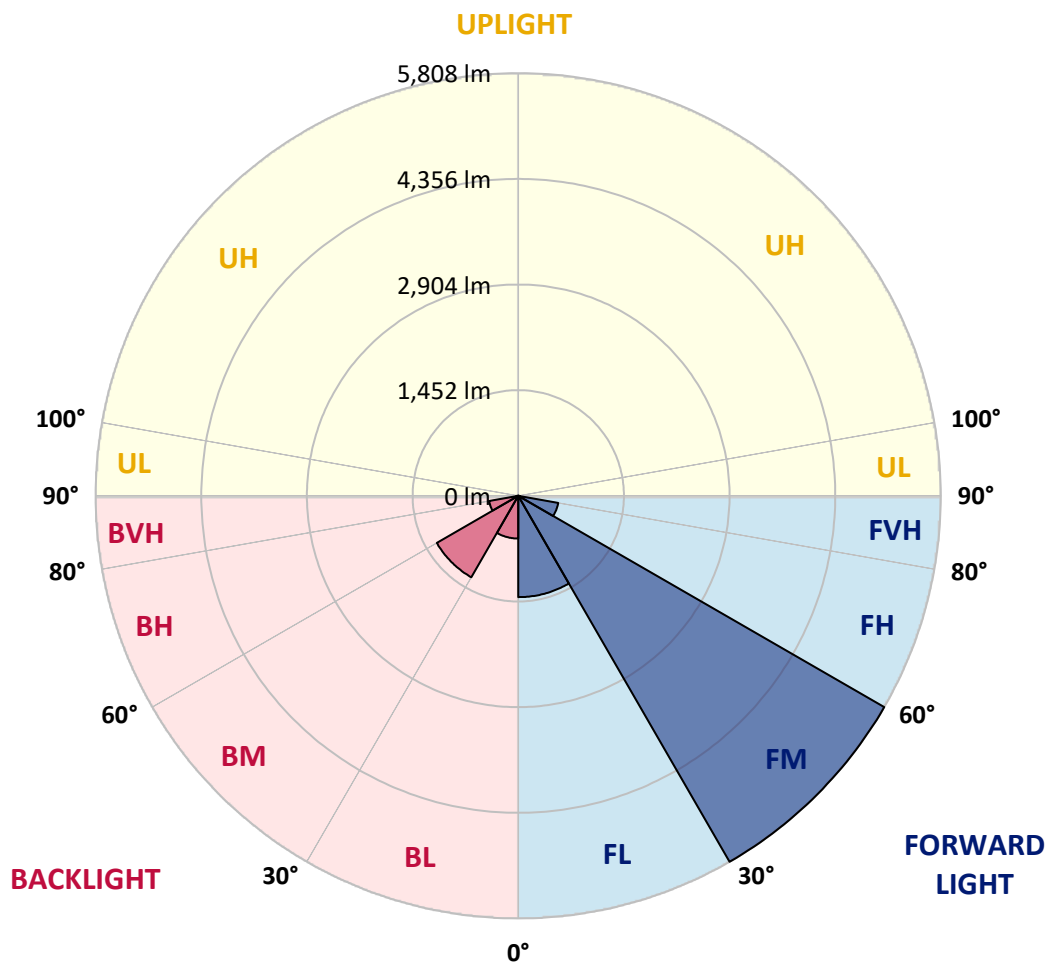
REPORT NUMBER: P651802
 CATALOG NUMBER: GALN-SA3A-840-U-T2R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1392.6	13.8			
FM (30°-60°)	5808.3	57.6			
FH (60°-80°)	556.9	5.5			G0/660
FVH (80°-90°)	19.5	0.2			G1/100
BL (0°-30°)	587.6	5.8	B2/1000		
BM (30°-60°)	1292.6	12.8	B2/2500		
BH (60°-80°)	407.2	4.0	B1/500		G1/500
BVH (80°-90°)	24.0	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





REPORT NUMBER: P651802

CATALOG NUMBER: GALN-SA3A-840-U-T2R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4
2.5°	1806.4	1795.2	1761.5	1750.2	1710.3	1637.8	1612.9	1539.3	1508.1	1479.3	1445.6
5°	2284.5	2232.1	2228.3	2164.6	2072.3	2018.7	1858.9	1751.5	1652.8	1602.9	1510.5
7.5°	2589.1	2590.4	2590.4	2538.0	2464.3	2328.2	2184.7	1991.2	1842.6	1769.0	1611.7
10°	2878.7	2853.8	2840.1	2835.1	2785.1	2652.8	2499.3	2259.6	2056.1	1970.0	1687.8
12.5°	3083.5	3062.2	3093.5	3077.2	3041.1	2954.9	2810.1	2536.7	2282.1	2165.9	1810.2
15°	3180.8	3195.9	3220.8	3265.8	3249.5	3217.1	3057.3	2821.3	2525.4	2394.4	1918.7
17.5°	3330.7	3289.5	3319.4	3375.6	3420.5	3405.5	3314.5	3027.3	2766.4	2605.3	2064.8
20°	3435.6	3411.9	3426.8	3491.7	3525.4	3610.3	3562.9	3297.0	2997.3	2827.6	2237.1
22.5°	3735.1	3700.1	3651.5	3661.5	3674.0	3733.9	3745.1	3592.8	3265.8	3086.0	2400.6
25°	4104.7	4072.2	4014.8	3956.1	3919.9	3908.6	3947.4	3825.0	3522.9	3336.9	2576.7
27.5°	4511.6	4456.7	4420.5	4299.4	4202.1	4187.1	4168.3	4102.1	3827.6	3626.6	2775.1
30°	4907.4	4863.7	4815.0	4621.5	4520.4	4504.1	4411.8	4430.5	4158.3	3934.9	2999.8
32.5°	5207.0	5210.8	5099.7	4953.6	4858.7	4772.5	4738.9	4792.5	4582.8	4403.1	3250.8
35°	5449.2	5460.4	5354.3	5221.9	5119.6	5179.6	5164.5	5189.5	5089.6	4869.9	3542.9
37.5°	5685.1	5628.9	5515.4	5451.7	5398.0	5496.6	5623.9	5645.1	5663.9	5405.4	3882.5
40°	5723.8	5728.8	5662.6	5707.6	5640.2	5788.7	6084.6	6057.1	6133.2	5907.4	4250.8
42.5°	5668.8	5680.1	5706.4	5770.0	5932.2	6110.8	6550.2	6437.9	6530.3	6329.3	4609.0
45°	5579.0	5532.8	5565.2	5807.4	6088.3	6485.3	6975.9	6888.5	6858.6	6690.1	5036.0
47.5°	5149.5	5197.0	5298.1	5596.4	6018.4	6550.2	7278.0	7258.1	7348.0	7229.3	5424.2
50°	4554.1	4535.3	4730.1	5065.9	5610.2	6422.9	7261.8	7442.8	7636.4	7471.5	5597.7
52.5°	3410.6	3510.4	3677.7	4094.7	4871.2	5728.8	6907.3	7209.4	7366.7	7331.8	5457.9
55°	2156.0	2185.9	2287.0	2782.6	3481.7	4597.7	5921.1	6621.4	6902.3	7033.4	5329.3
57.5°	1047.4	991.2	1114.8	1513.0	2011.2	3092.2	4566.5	5767.5	6378.0	6615.1	5049.7
60°	546.8	568.0	616.7	759.0	1039.9	1605.4	2846.3	3843.8	4776.3	5140.8	3827.6
62.5°	453.1	460.6	493.1	564.2	691.6	923.8	1453.1	1873.8	2435.6	2763.9	2177.2
65°	384.5	388.2	423.2	470.6	551.8	650.4	747.8	782.7	947.6	972.4	774.0
67.5°	320.8	324.5	362.1	407.0	459.4	485.6	510.6	508.0	526.8	519.3	518.1
70°	247.2	251.0	289.6	337.1	363.3	348.3	425.7	443.2	450.7	456.9	466.9
72.5°	178.5	186.0	216.0	249.7	236.0	270.9	350.8	377.0	387.0	390.7	403.3
75°	129.9	132.3	139.9	129.9	149.8	188.5	247.2	279.6	292.1	295.9	314.6
77.5°	57.4	58.7	60.0	74.9	96.1	117.3	147.3	173.5	191.0	196.0	201.0
80°	29.9	31.2	38.7	51.2	68.6	86.1	107.4	122.4	133.6	134.8	139.9
82.5°	18.8	20.0	27.5	36.2	48.7	63.7	78.6	91.2	99.9	101.1	102.3
85°	8.7	11.3	16.2	22.5	32.5	41.2	42.5	36.2	38.7	39.9	37.4
87.5°	2.5	3.8	5.0	3.8	5.0	5.0	6.2	7.5	7.5	7.5	8.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P651802

CATALOG NUMBER: GALN-SA3A-840-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4	1404.4
2.5°	1426.9	1415.7	1372.0	1355.8	1313.3	1320.8	1298.3	1297.1	1292.0	1290.9	1289.6
5°	1461.8	1426.9	1374.4	1334.5	1310.8	1308.3	1292.0	1292.0	1297.1	1300.8	1292.0
7.5°	1519.3	1479.3	1390.7	1353.3	1332.1	1328.3	1317.0	1308.3	1319.5	1315.8	1305.8
10°	1585.5	1515.6	1421.9	1389.4	1354.5	1345.8	1345.8	1349.5	1330.8	1337.0	1327.0
12.5°	1659.1	1565.4	1461.8	1424.4	1383.2	1378.2	1375.7	1348.2	1358.2	1353.3	1328.3
15°	1752.7	1622.9	1513.0	1449.4	1414.4	1391.9	1359.5	1354.5	1348.2	1335.8	1324.5
17.5°	1853.8	1685.3	1536.8	1456.9	1404.4	1388.2	1363.3	1337.0	1318.3	1320.8	1312.0
20°	1940.0	1742.7	1545.5	1464.3	1396.9	1365.7	1327.0	1310.8	1290.9	1289.6	1288.3
22.5°	2042.4	1820.1	1558.0	1444.3	1374.4	1342.0	1315.8	1287.1	1273.4	1255.9	1264.6
25°	2164.6	1850.1	1560.5	1433.1	1358.2	1300.8	1287.1	1255.9	1250.9	1225.9	1230.9
27.5°	2253.3	1866.3	1540.5	1398.2	1320.8	1277.1	1252.1	1229.6	1220.9	1202.2	1197.2
30°	2372.0	1891.3	1498.1	1354.5	1283.4	1234.7	1219.7	1214.7	1189.7	1169.7	1167.2
32.5°	2506.8	1907.6	1470.6	1309.5	1244.6	1207.2	1214.7	1190.9	1159.7	1142.2	1137.3
35°	2614.1	1913.8	1401.9	1258.4	1218.4	1194.7	1186.0	1180.9	1136.0	1119.8	1107.3
37.5°	2777.7	1900.1	1344.5	1222.1	1189.7	1180.9	1173.4	1139.8	1088.6	1064.9	1047.4
40°	2968.6	1896.3	1270.8	1171.0	1162.3	1172.2	1149.7	1097.3	1026.2	999.9	987.5
42.5°	3152.2	1922.5	1224.7	1143.5	1132.2	1136.0	1104.8	1026.2	991.2	976.2	956.2
45°	3459.3	1977.4	1148.5	1101.0	1096.1	1093.6	1056.1	973.7	953.8	935.0	931.3
47.5°	3736.4	1941.2	1099.9	1057.4	1062.4	1048.6	968.7	942.5	920.1	901.3	895.1
50°	3752.6	1855.1	1031.2	1023.7	1024.9	1001.2	925.0	907.6	878.8	866.4	857.7
52.5°	3667.8	1714.0	967.5	970.0	973.7	935.0	871.4	858.9	835.2	817.7	812.7
55°	3429.3	1494.3	905.1	915.1	925.0	851.4	831.4	800.2	781.5	756.5	757.7
57.5°	3021.0	1203.5	817.7	833.9	855.1	774.0	759.0	720.3	692.8	672.9	670.4
60°	2024.9	856.4	686.6	692.8	740.2	707.9	706.6	667.9	630.4	612.9	603.0
62.5°	1194.7	654.1	593.0	586.8	585.5	604.2	635.5	621.7	573.0	539.3	549.3
65°	625.5	565.5	551.8	530.6	518.1	513.1	536.8	543.0	510.6	474.4	471.9
67.5°	525.5	525.5	514.4	506.9	489.4	468.1	453.1	433.2	428.2	418.2	405.7
70°	478.1	490.6	486.9	469.4	454.4	430.7	392.0	359.5	328.3	317.1	324.5
72.5°	417.0	429.4	429.4	420.7	400.7	364.5	327.1	289.6	263.4	243.5	240.9
75°	320.8	327.1	342.0	332.0	305.9	283.4	244.6	206.0	181.0	162.3	158.5
77.5°	204.7	214.7	214.7	213.4	194.8	173.5	148.5	121.1	102.3	88.6	84.9
80°	136.1	142.3	147.3	142.3	129.9	113.6	94.9	76.1	62.4	51.2	48.7
82.5°	99.9	107.4	111.1	106.1	93.6	81.2	67.4	53.7	39.9	31.2	28.7
85°	38.7	39.9	44.9	53.7	52.4	51.2	41.2	29.9	22.5	16.2	15.0
87.5°	10.0	8.7	10.0	10.0	8.7	7.5	7.5	7.5	7.5	3.8	5.0
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)