

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: P529801

Luminaire Tested: **GALN-SA5A-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-727-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12667 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

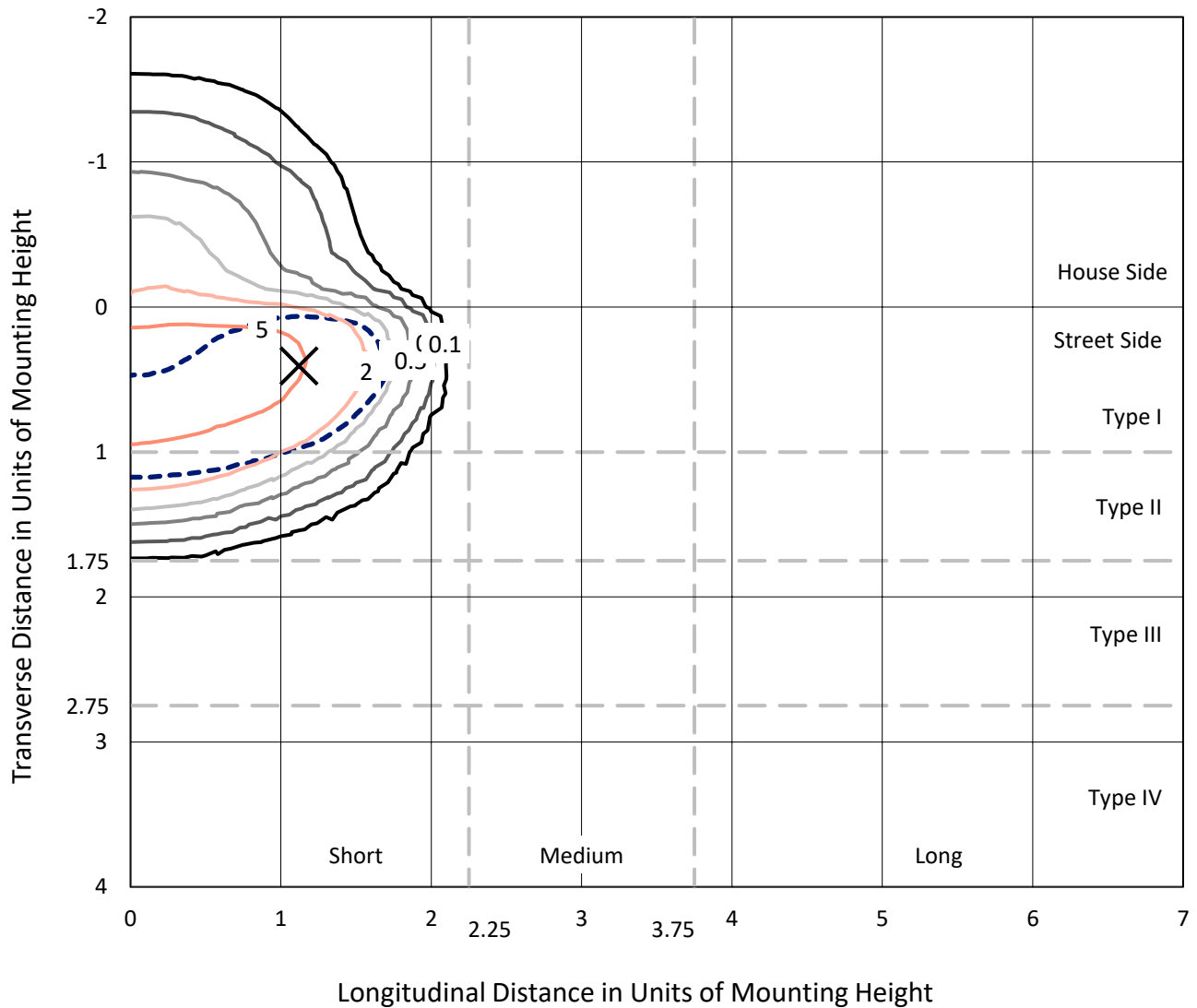
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

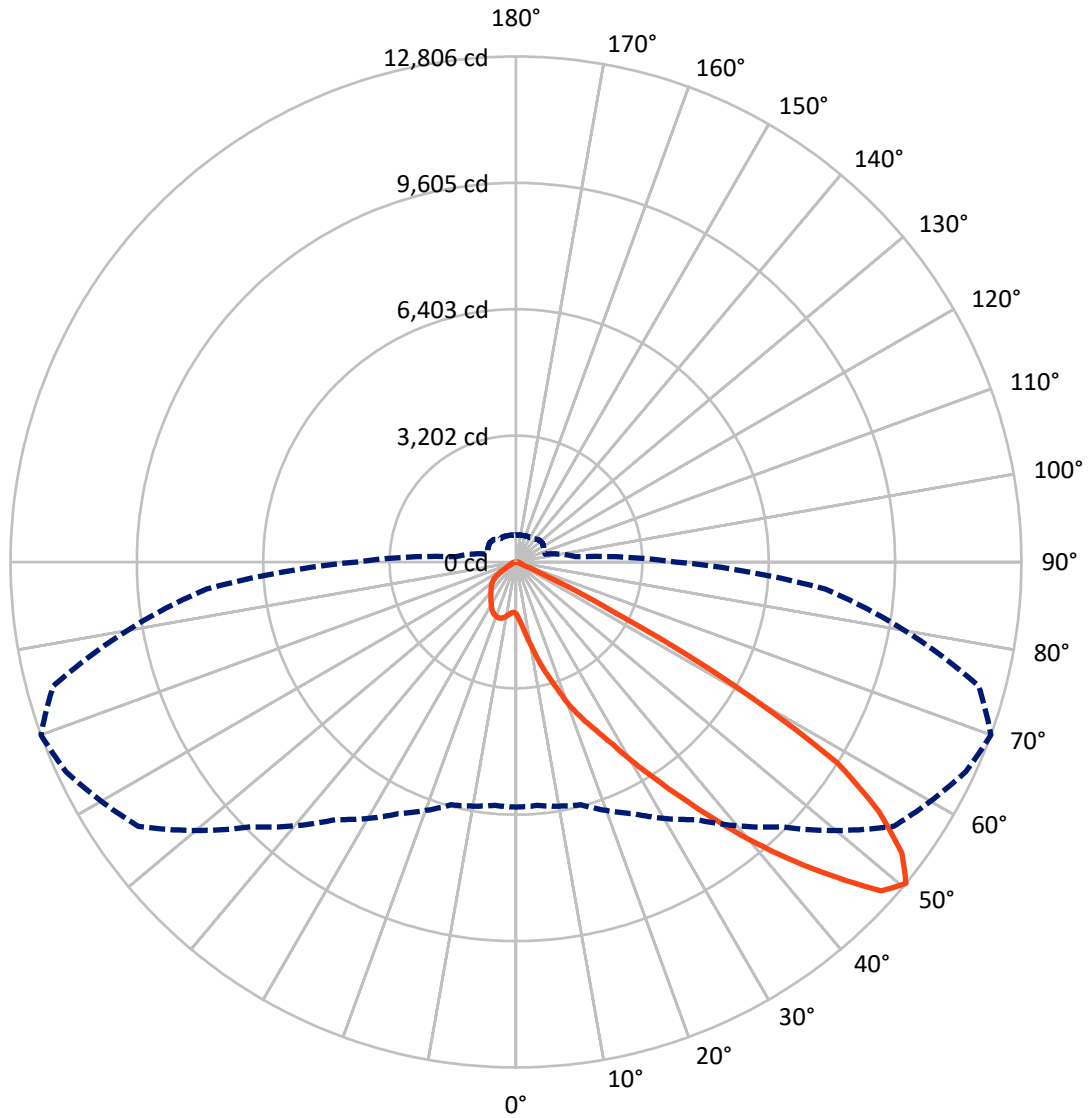
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type I - Short - N/A

REPORT NUMBER: P529801
CATALOG NUMBER: GALN-SA5A-727-U-T2R-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical



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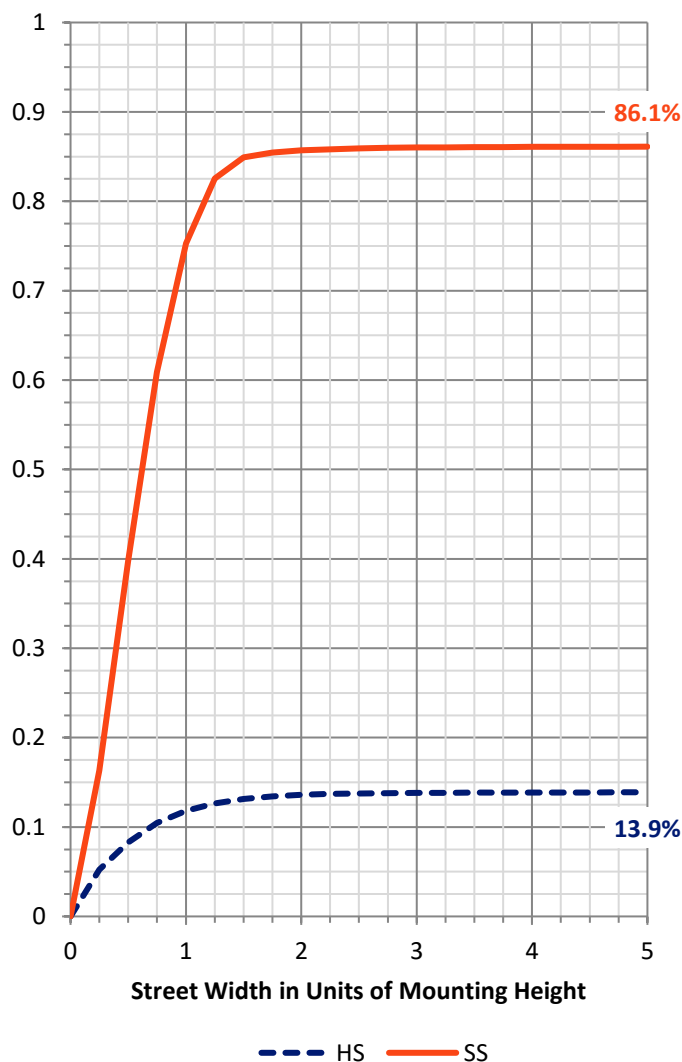
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1769.0	0.0	1769.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	10898.0	0.0	10898.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	12667.0	0.0	12667.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.6	1.3
10°-20°	738.0	5.8
20°-30°	1548.2	12.2
30°-40°	2668.6	21.1
40°-50°	3900.2	30.8
50°-60°	3037.6	24.0
60°-70°	514.7	4.1
70°-80°	70.7	0.6
80°-90°	18.3	0.1
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°	12667.0	100.0
0°-180°	12667.0	100.0

Coefficient of Utilization

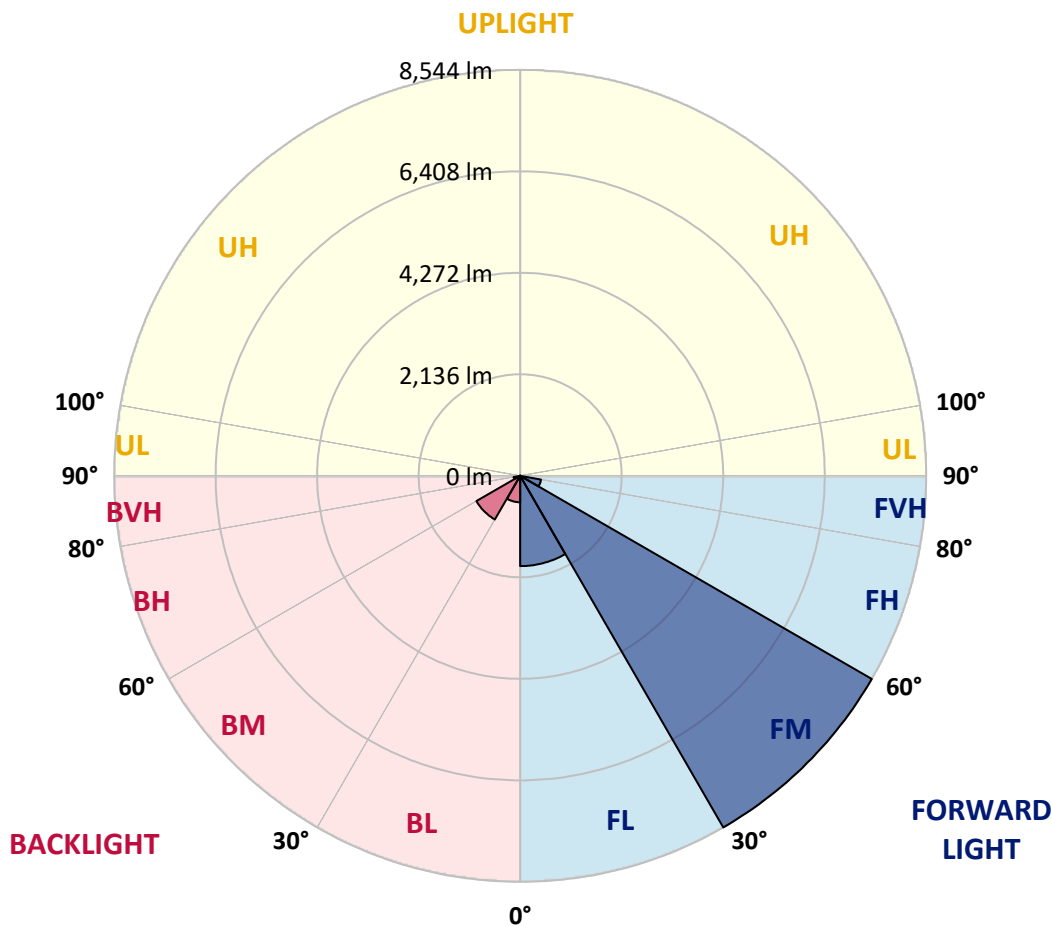


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 CATALOG NUMBER: GALN-SA5A-727-U-T2R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1900.2	15.0			
FM (30°-60°)	8543.7	67.4			
FH (60°-80°)	445.6	3.5			G0/660
FVH (80°-90°)	8.5	0.1			G0/10
BL (0°-30°)	556.7	4.4	B2/1000		
BM (30°-60°)	1062.8	8.4	B2/2500		
BH (60°-80°)	139.7	1.1	B1/500		G1/500
BVH (80°-90°)	9.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type I Short





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CATALOG NUMBER: GALN-SA5A-727-U-T2R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1
2.5°	1718.2	1705.7	1678.6	1628.6	1607.8	1557.8	1528.6	1472.4	1437.0	1397.4	1353.7
5°	2420.0	2355.4	2315.9	2259.6	2095.1	1993.1	1824.4	1680.7	1614.0	1541.1	1441.2
7.5°	3144.8	3103.1	3049.0	2928.2	2815.7	2603.3	2313.8	1997.2	1861.9	1736.9	1539.1
10°	3744.6	3627.9	3621.7	3532.1	3409.3	3155.2	2807.4	2413.8	2172.2	1988.9	1678.6
12.5°	4163.2	4056.9	4104.8	4094.4	3979.9	3746.6	3344.7	2824.0	2572.0	2286.7	1822.3
15°	4544.3	4500.5	4486.0	4473.5	4427.7	4254.8	3894.5	3323.9	2959.4	2615.8	1984.7
17.5°	4917.1	4804.6	4858.8	4869.2	4865.0	4708.8	4371.4	3798.7	3369.7	2963.6	2155.5
20°	5248.2	5258.6	5185.7	5171.2	5158.7	5152.4	4823.4	4269.4	3873.7	3328.0	2378.4
22.5°	5673.1	5600.2	5664.7	5623.1	5541.9	5491.9	5239.9	4685.9	4311.0	3767.5	2605.4
25°	6175.0	6233.3	6081.3	6064.6	5975.0	5802.2	5575.2	5152.4	4731.7	4175.7	2851.1
27.5°	6793.5	6691.5	6651.9	6560.3	6397.8	6324.9	6058.3	5633.5	5239.9	4604.7	3088.5
30°	7324.6	7297.5	7099.7	6991.4	6849.7	6847.7	6474.9	6285.4	5902.2	5277.4	3415.5
32.5°	7757.8	7639.1	7566.2	7491.2	7376.6	7407.9	7093.4	6993.4	6608.2	5902.2	3800.8
35°	8047.3	7961.9	7918.1	7803.6	7770.3	7909.8	7778.6	7736.9	7420.4	6781.0	4252.7
37.5°	8138.9	8166.0	8157.6	8013.9	8084.7	8461.7	8630.4	8522.1	8355.5	7707.8	4742.1
40°	8220.1	8238.9	8197.2	8365.9	8567.9	8996.9	9607.1	9428.0	9365.6	8647.0	5423.1
42.5°	8265.9	8251.3	8251.3	8542.9	8849.1	9711.3	10550.6	10431.9	10384.0	9646.7	6210.4
45°	8068.1	7926.5	8078.5	8474.2	9090.6	10063.2	11304.5	11469.0	11400.3	10835.9	7130.9
47.5°	7328.7	7416.2	7501.6	8030.6	8797.0	9954.9	11766.8	12327.0	12454.1	11835.5	7734.9
50°	6210.4	6191.6	6368.7	7035.1	7966.0	9488.4	11677.3	12574.9	12806.0	12135.4	7861.9
52.5°	4517.2	4654.7	4846.3	5508.5	6612.3	8280.5	10521.4	11935.5	12243.7	11766.8	7778.6
55°	2630.4	2478.3	2909.4	3469.6	4511.0	6245.8	8894.9	10579.7	11150.4	11096.2	7357.9
57.5°	1053.8	1020.5	1168.4	1574.5	2353.4	3871.6	6468.6	8692.9	9607.1	10163.2	6466.5
60°	462.3	451.9	531.1	641.4	962.2	1784.8	3538.4	5406.5	6360.3	7101.7	4450.6
62.5°	333.2	329.1	368.6	408.2	508.2	776.8	1487.0	2178.4	2715.7	3280.1	1993.1
65°	268.7	279.1	306.1	327.0	374.9	431.1	524.8	606.0	743.5	770.6	439.4
67.5°	218.7	227.0	252.0	274.9	283.2	233.3	241.6	212.4	212.4	189.5	152.0
70°	160.4	162.4	191.6	218.7	174.9	93.7	164.5	164.5	147.9	141.6	129.1
72.5°	118.7	120.8	143.7	135.4	68.7	58.3	120.8	133.3	120.8	114.5	104.1
75°	87.5	89.6	75.0	31.2	29.2	37.5	70.8	91.6	87.5	85.4	79.1
77.5°	16.7	12.5	10.4	14.6	20.8	31.2	45.8	56.2	58.3	62.5	58.3
80°	2.1	2.1	6.2	12.5	22.9	33.3	47.9	54.1	56.2	58.3	54.1
82.5°	0.0	2.1	6.2	12.5	22.9	31.2	41.7	47.9	52.1	54.1	52.1
85°	0.0	2.1	4.2	10.4	18.7	22.9	20.8	14.6	12.5	14.6	10.4
87.5°	0.0	0.0	2.1	2.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2
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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CATALOG NUMBER: GALN-SA5A-727-U-T2R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1	1312.1
2.5°	1328.7	1320.4	1291.2	1260.0	1232.9	1245.4	1232.9	1222.5	1226.7	1222.5	1218.3
5°	1401.6	1364.1	1301.6	1274.6	1251.7	1249.6	1243.3	1241.2	1243.3	1243.3	1224.6
7.5°	1470.3	1409.9	1343.3	1314.1	1287.1	1289.1	1274.6	1274.6	1272.5	1262.1	1257.9
10°	1574.5	1493.2	1407.9	1355.8	1322.5	1316.2	1301.6	1287.1	1287.1	1287.1	1266.2
12.5°	1689.0	1587.0	1470.3	1409.9	1370.4	1339.1	1316.2	1312.1	1289.1	1285.0	1274.6
15°	1789.0	1659.8	1512.0	1428.7	1378.7	1337.0	1301.6	1278.7	1268.3	1262.1	1253.7
17.5°	1886.9	1722.3	1534.9	1428.7	1374.5	1326.6	1289.1	1268.3	1243.3	1247.5	1230.8
20°	2018.1	1789.0	1541.1	1401.6	1335.0	1289.1	1239.2	1228.7	1214.2	1201.7	1205.8
22.5°	2145.1	1836.9	1522.4	1368.3	1272.5	1218.3	1193.3	1180.8	1174.6	1164.2	1149.6
25°	2259.6	1888.9	1493.2	1307.9	1205.8	1166.3	1143.4	1141.3	1126.7	1126.7	1099.6
27.5°	2376.3	1907.7	1443.3	1237.1	1147.5	1124.6	1114.2	1110.0	1103.8	1089.2	1070.5
30°	2509.6	1913.9	1370.4	1164.2	1095.5	1070.5	1085.0	1095.5	1068.4	1041.3	1049.6
32.5°	2619.9	1899.4	1282.9	1095.5	1058.0	1045.5	1074.6	1085.0	1053.8	1024.6	1010.1
35°	2753.2	1863.9	1197.5	1041.3	1020.5	1045.5	1070.5	1070.5	1008.0	972.6	964.3
37.5°	2955.2	1824.4	1118.4	995.5	980.9	1033.0	1066.3	1043.4	945.5	901.8	891.4
40°	3171.8	1799.4	1041.3	949.7	960.1	1012.2	1030.9	960.1	860.1	833.0	824.7
42.5°	3486.3	1749.4	972.6	910.1	941.3	983.0	983.0	856.0	818.5	803.9	801.8
45°	3877.8	1714.0	912.2	876.8	914.3	924.7	891.4	801.8	774.7	770.6	772.7
47.5°	4069.4	1645.3	849.7	837.2	864.3	866.4	778.9	758.1	735.2	728.9	724.8
50°	4040.3	1522.4	768.5	785.1	822.6	801.8	710.2	714.3	693.5	691.4	681.0
52.5°	3836.2	1328.7	687.3	726.8	768.5	708.1	653.9	649.8	649.8	622.7	612.3
55°	3400.9	1070.5	589.4	639.4	689.3	595.6	581.1	576.9	566.5	541.5	535.2
57.5°	2692.8	785.1	443.6	497.7	585.2	506.1	504.0	485.3	458.2	439.4	439.4
60°	1601.5	451.9	279.1	304.1	387.4	410.3	456.1	447.8	401.9	372.8	364.5
62.5°	731.0	233.3	177.0	181.2	208.3	266.6	358.2	414.4	349.9	299.9	295.7
65°	245.7	172.9	145.8	139.5	143.7	160.4	214.5	293.6	279.1	231.2	222.8
67.5°	149.9	154.1	137.5	127.0	127.0	125.0	122.9	133.3	164.5	160.4	162.4
70°	129.1	141.6	127.0	114.5	110.4	104.1	87.5	72.9	62.5	72.9	77.1
72.5°	104.1	112.5	108.3	97.9	87.5	79.1	62.5	47.9	35.4	31.2	31.2
75°	77.1	83.3	87.5	75.0	66.6	56.2	45.8	31.2	18.7	12.5	12.5
77.5°	56.2	62.5	64.6	58.3	50.0	39.6	29.2	20.8	10.4	4.2	4.2
80°	47.9	56.2	62.5	58.3	52.1	37.5	27.1	14.6	8.3	2.1	2.1
82.5°	45.8	56.2	62.5	56.2	50.0	35.4	27.1	16.7	6.2	2.1	2.1
85°	10.4	14.6	18.7	22.9	27.1	27.1	20.8	12.5	6.2	2.1	2.1
87.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	2.1	2.1	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)