

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: P528631

Luminaire Tested: **GALN-SA3D-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528631
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-SA3D-727-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA 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: 12773 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

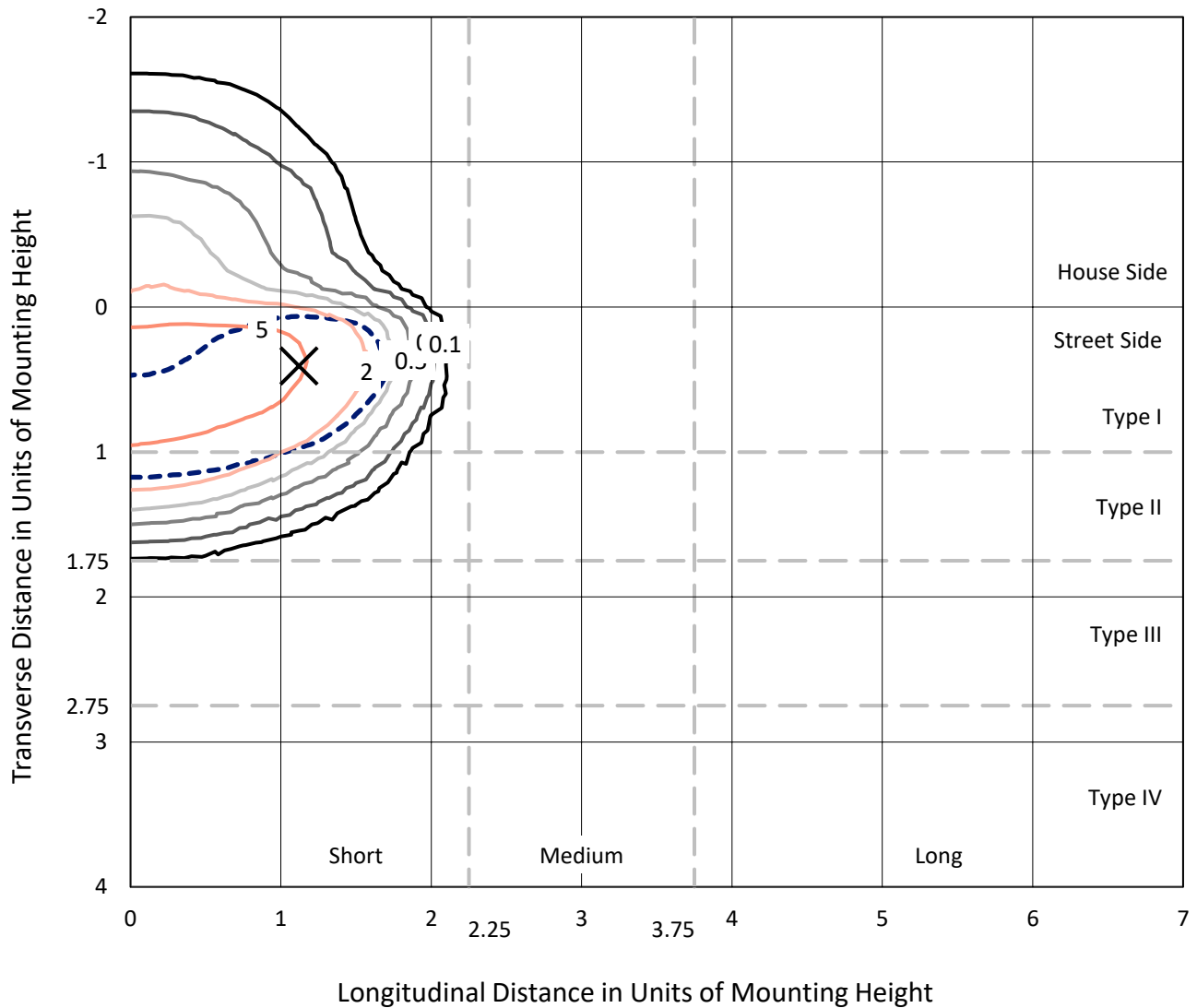
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528631
 CATALOG NUMBER: GALN-SA3D-727-U-T2R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

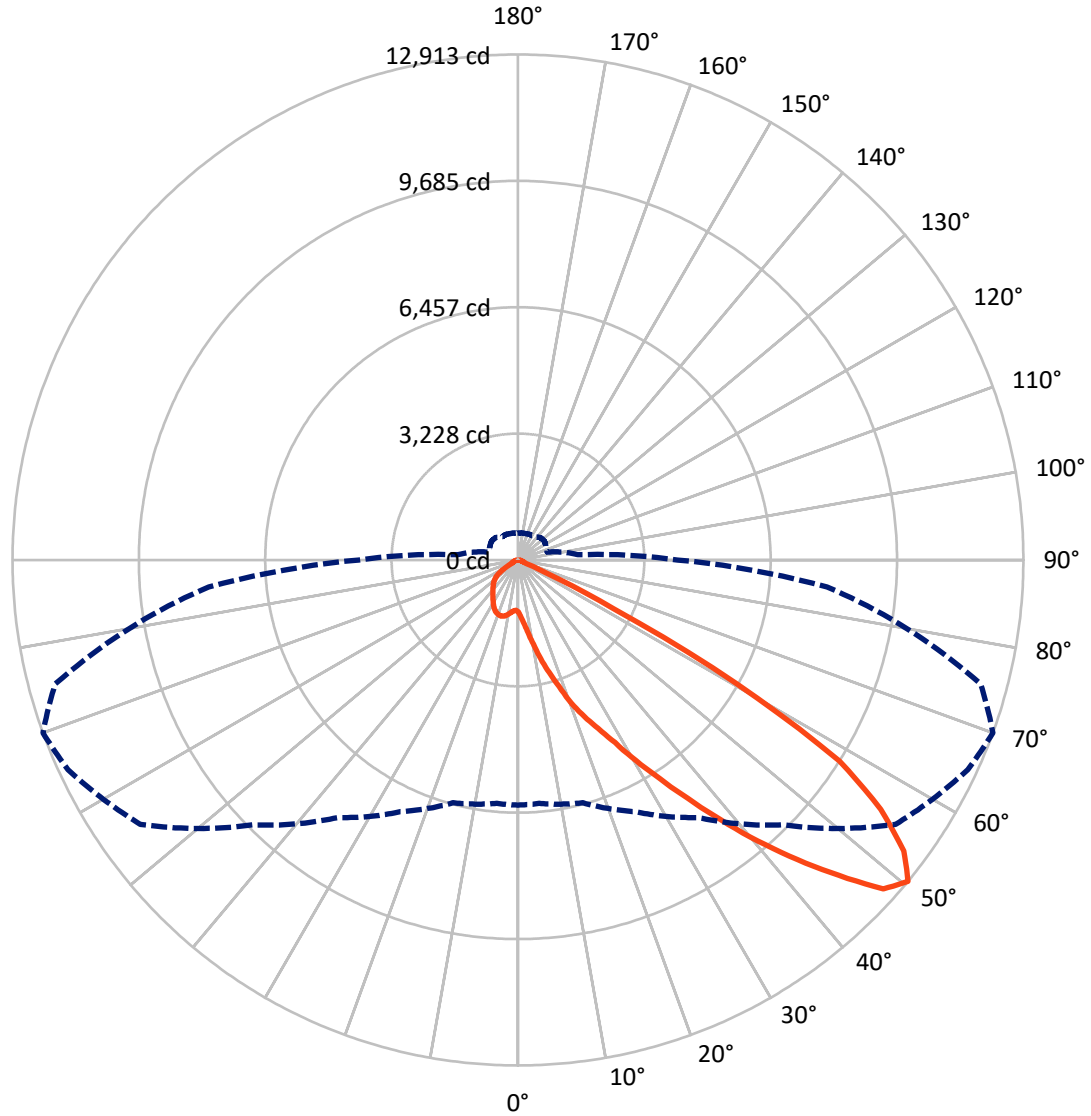
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type I - Short - N/A

REPORT NUMBER: P528631
CATALOG NUMBER: GALN-SA3D-727-U-T2R-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P528631
 CATALOG NUMBER: GALN-SA3D-727-U-T2R-GRSBK

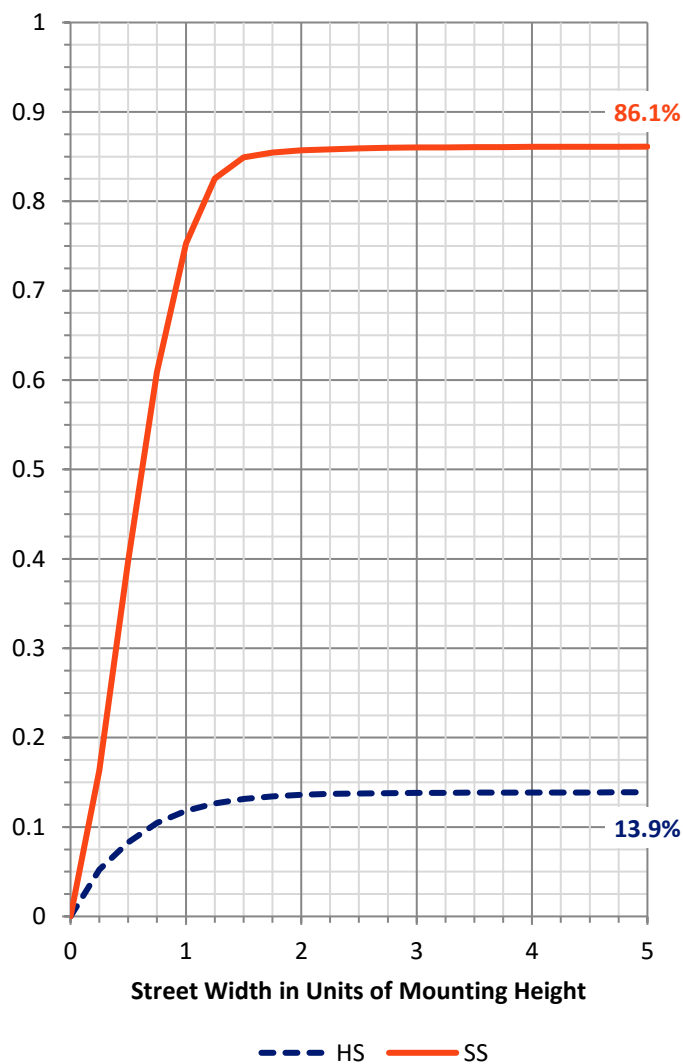
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1783.8	0.0	1783.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	10989.2	0.0	10989.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	12773.0	0.0	12773.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.0	1.3
10°-20°	744.2	5.8
20°-30°	1561.2	12.2
30°-40°	2691.0	21.1
40°-50°	3932.8	30.8
50°-60°	3063.0	24.0
60°-70°	519.0	4.1
70°-80°	71.3	0.6
80°-90°	18.5	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°	12773.0	100.0
0°-180°	12773.0	100.0

Coefficient of Utilization



REPORT NUMBER: P528631

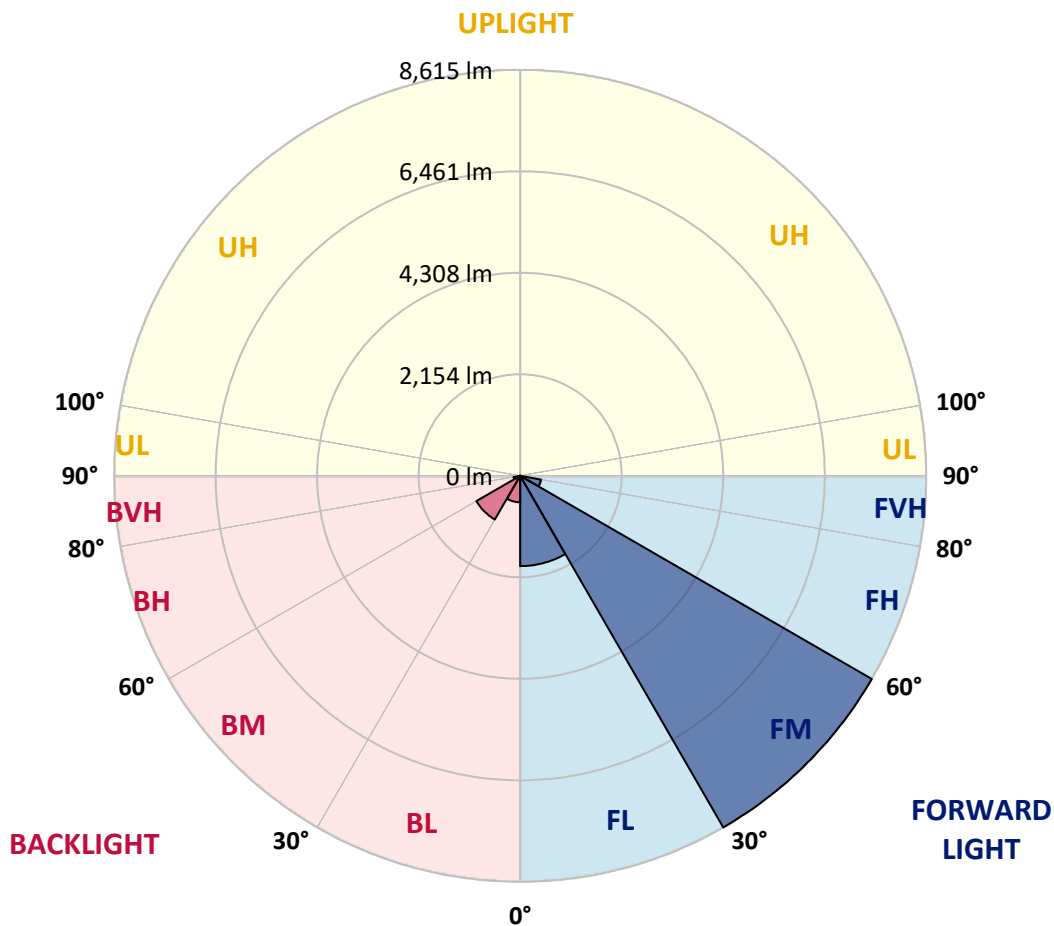
CATALOG NUMBER: GALN-SA3D-727-U-T2R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1916.1	15.0			
FM (30°-60°)	8615.2	67.4			
FH (60°-80°)	449.4	3.5			G0/660
FVH (80°-90°)	8.5	0.1			G0/10
BL (0°-30°)	561.3	4.4	B2/1000		
BM (30°-60°)	1071.6	8.4	B2/2500		
BH (60°-80°)	140.9	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





REPORT NUMBER: P528631

CATALOG NUMBER: GALN-SA3D-727-U-T2R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0
2.5°	1732.5	1719.9	1692.6	1642.2	1621.2	1570.8	1541.4	1484.7	1449.0	1409.1	1365.0
5°	2440.3	2375.2	2335.3	2278.6	2112.6	2009.7	1839.6	1694.7	1627.5	1554.0	1453.2
7.5°	3171.1	3129.1	3074.5	2952.7	2839.3	2625.1	2333.2	2013.9	1877.4	1751.4	1551.9
10°	3775.9	3658.3	3652.0	3561.7	3437.8	3181.6	2830.9	2434.0	2190.4	2005.5	1692.6
12.5°	4198.0	4090.9	4139.2	4128.7	4013.2	3778.0	3372.7	2847.7	2593.6	2305.9	1837.5
15°	4582.3	4538.2	4523.5	4510.9	4464.7	4290.4	3927.1	3351.7	2984.2	2637.7	2001.3
17.5°	4958.2	4844.8	4899.4	4909.9	4905.7	4748.2	4408.0	3830.5	3397.9	2988.4	2173.6
20°	5292.1	5302.6	5229.1	5214.4	5201.8	5195.5	4863.7	4305.1	3906.1	3355.9	2398.3
22.5°	5720.5	5647.0	5712.1	5670.1	5588.2	5537.8	5283.7	4725.1	4347.1	3799.0	2627.2
25°	6226.6	6285.4	6132.1	6115.3	6025.0	5850.7	5621.8	5195.5	4771.3	4210.6	2875.0
27.5°	6850.4	6747.5	6707.6	6615.2	6451.4	6377.9	6109.0	5680.6	5283.7	4643.2	3114.4
30°	7385.9	7358.6	7159.1	7049.9	6907.1	6905.0	6529.1	6337.9	5951.5	5321.5	3444.1
32.5°	7822.7	7703.0	7629.5	7553.9	7438.4	7469.9	7152.8	7052.0	6663.5	5951.5	3832.6
35°	8114.6	8028.5	7984.4	7868.9	7835.3	7976.0	7843.7	7801.7	7482.5	6837.8	4288.3
37.5°	8207.0	8234.3	8225.9	8081.0	8152.4	8532.5	8702.6	8593.4	8425.4	7772.3	4781.8
40°	8288.9	8307.8	8265.8	8435.9	8639.6	9072.2	9687.5	9506.9	9443.9	8719.4	5468.5
42.5°	8335.1	8320.4	8320.4	8614.4	8923.1	9792.5	10638.9	10519.1	10470.8	9727.4	6262.3
45°	8135.6	7992.8	8146.1	8545.1	9166.7	10147.4	11399.1	11565.0	11495.7	10926.6	7190.6
47.5°	7390.1	7478.3	7564.4	8097.8	8870.6	10038.2	11865.3	12430.2	12558.3	11934.6	7799.6
50°	6262.3	6243.4	6422.0	7094.0	8032.7	9567.8	11775.0	12680.1	12913.2	12237.0	7927.7
52.5°	4555.0	4693.6	4886.8	5554.6	6667.7	8349.8	10609.5	12035.4	12346.2	11865.3	7843.7
55°	2652.4	2499.1	2933.8	3498.7	4548.7	6298.0	8969.3	10668.3	11243.7	11189.1	7419.5
57.5°	1062.6	1029.0	1178.1	1587.6	2373.1	3904.0	6522.8	8765.6	9687.5	10248.2	6520.7
60°	466.2	455.7	535.5	646.8	970.2	1799.7	3568.0	5451.7	6413.6	7161.2	4487.8
62.5°	336.0	331.8	371.7	411.6	512.4	783.3	1499.4	2196.7	2738.5	3307.6	2009.7
65°	270.9	281.4	308.7	329.7	378.0	434.7	529.2	611.1	749.7	777.0	443.1
67.5°	220.5	228.9	254.1	277.2	285.6	235.2	243.6	214.2	214.2	191.1	153.3
70°	161.7	163.8	193.2	220.5	176.4	94.5	165.9	165.9	149.1	142.8	130.2
72.5°	119.7	121.8	144.9	136.5	69.3	58.8	121.8	134.4	121.8	115.5	105.0
75°	88.2	90.3	75.6	31.5	29.4	37.8	71.4	92.4	88.2	86.1	79.8
77.5°	16.8	12.6	10.5	14.7	21.0	31.5	46.2	56.7	58.8	63.0	58.8
80°	2.1	2.1	6.3	12.6	23.1	33.6	48.3	54.6	56.7	58.8	54.6
82.5°	0.0	2.1	6.3	12.6	23.1	31.5	42.0	48.3	52.5	54.6	52.5
85°	0.0	2.1	4.2	10.5	18.9	23.1	21.0	14.7	12.6	14.7	10.5
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



REPORT NUMBER: P528631

CATALOG NUMBER: GALN-SA3D-727-U-T2R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0	1323.0
2.5°	1339.8	1331.4	1302.0	1270.5	1243.2	1255.8	1243.2	1232.7	1236.9	1232.7	1228.5
5°	1413.3	1375.5	1312.5	1285.2	1262.1	1260.0	1253.7	1251.6	1253.7	1253.7	1234.8
7.5°	1482.6	1421.7	1354.5	1325.1	1297.8	1299.9	1285.2	1285.2	1283.1	1272.6	1268.4
10°	1587.6	1505.7	1419.6	1367.1	1333.5	1327.2	1312.5	1297.8	1297.8	1297.8	1276.8
12.5°	1703.1	1600.2	1482.6	1421.7	1381.8	1350.3	1327.2	1323.0	1299.9	1295.7	1285.2
15°	1803.9	1673.7	1524.6	1440.6	1390.2	1348.2	1312.5	1289.4	1278.9	1272.6	1264.2
17.5°	1902.6	1736.7	1547.7	1440.6	1386.0	1337.7	1299.9	1278.9	1253.7	1257.9	1241.1
20°	2034.9	1803.9	1554.0	1413.3	1346.1	1299.9	1249.5	1239.0	1224.3	1211.7	1215.9
22.5°	2163.1	1852.2	1535.1	1379.7	1283.1	1228.5	1203.3	1190.7	1184.4	1173.9	1159.2
25°	2278.6	1904.7	1505.7	1318.8	1215.9	1176.0	1152.9	1150.8	1136.1	1136.1	1108.8
27.5°	2396.2	1923.6	1455.3	1247.4	1157.1	1134.0	1123.5	1119.3	1113.0	1098.3	1079.4
30°	2530.6	1929.9	1381.8	1173.9	1104.6	1079.4	1094.1	1104.6	1077.3	1050.0	1058.4
32.5°	2641.9	1915.2	1293.6	1104.6	1066.8	1054.2	1083.6	1094.1	1062.6	1033.2	1018.5
35°	2776.3	1879.5	1207.5	1050.0	1029.0	1054.2	1079.4	1079.4	1016.4	980.7	972.3
37.5°	2980.0	1839.6	1127.7	1003.8	989.1	1041.6	1075.2	1052.1	953.4	909.3	898.8
40°	3198.4	1814.4	1050.0	957.6	968.1	1020.6	1039.5	968.1	867.3	840.0	831.6
42.5°	3515.5	1764.0	980.7	917.7	949.2	991.2	991.2	863.1	825.3	810.6	808.5
45°	3910.3	1728.3	919.8	884.1	921.9	932.4	898.8	808.5	781.2	777.0	779.1
47.5°	4103.5	1659.0	856.8	844.2	871.5	873.6	785.4	764.4	741.3	735.0	730.8
50°	4074.1	1535.1	774.9	791.7	829.5	808.5	716.1	720.3	699.3	697.2	686.7
52.5°	3868.3	1339.8	693.0	732.9	774.9	714.0	659.4	655.2	655.2	627.9	617.4
55°	3429.4	1079.4	594.3	644.7	695.1	600.6	585.9	581.7	571.2	546.0	539.7
57.5°	2715.4	791.7	447.3	501.9	590.1	510.3	508.2	489.3	462.0	443.1	443.1
60°	1614.9	455.7	281.4	306.6	390.6	413.7	459.9	451.5	405.3	375.9	367.5
62.5°	737.1	235.2	178.5	182.7	210.0	268.8	361.2	417.9	352.8	302.4	298.2
65°	247.8	174.3	147.0	140.7	144.9	161.7	216.3	296.1	281.4	233.1	224.7
67.5°	151.2	155.4	138.6	128.1	128.1	126.0	123.9	134.4	165.9	161.7	163.8
70°	130.2	142.8	128.1	115.5	111.3	105.0	88.2	73.5	63.0	73.5	77.7
72.5°	105.0	113.4	109.2	98.7	88.2	79.8	63.0	48.3	35.7	31.5	31.5
75°	77.7	84.0	88.2	75.6	67.2	56.7	46.2	31.5	18.9	12.6	12.6
77.5°	56.7	63.0	65.1	58.8	50.4	39.9	29.4	21.0	10.5	4.2	4.2
80°	48.3	56.7	63.0	58.8	52.5	37.8	27.3	14.7	8.4	2.1	2.1
82.5°	46.2	56.7	63.0	56.7	50.4	35.7	27.3	16.8	6.3	2.1	2.1
85°	10.5	14.7	18.9	23.1	27.3	27.3	21.0	12.6	6.3	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)