

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: P528007

Luminaire Tested: **GALN-SA3A-740-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528007
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-SA3A-740-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 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: 9029 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

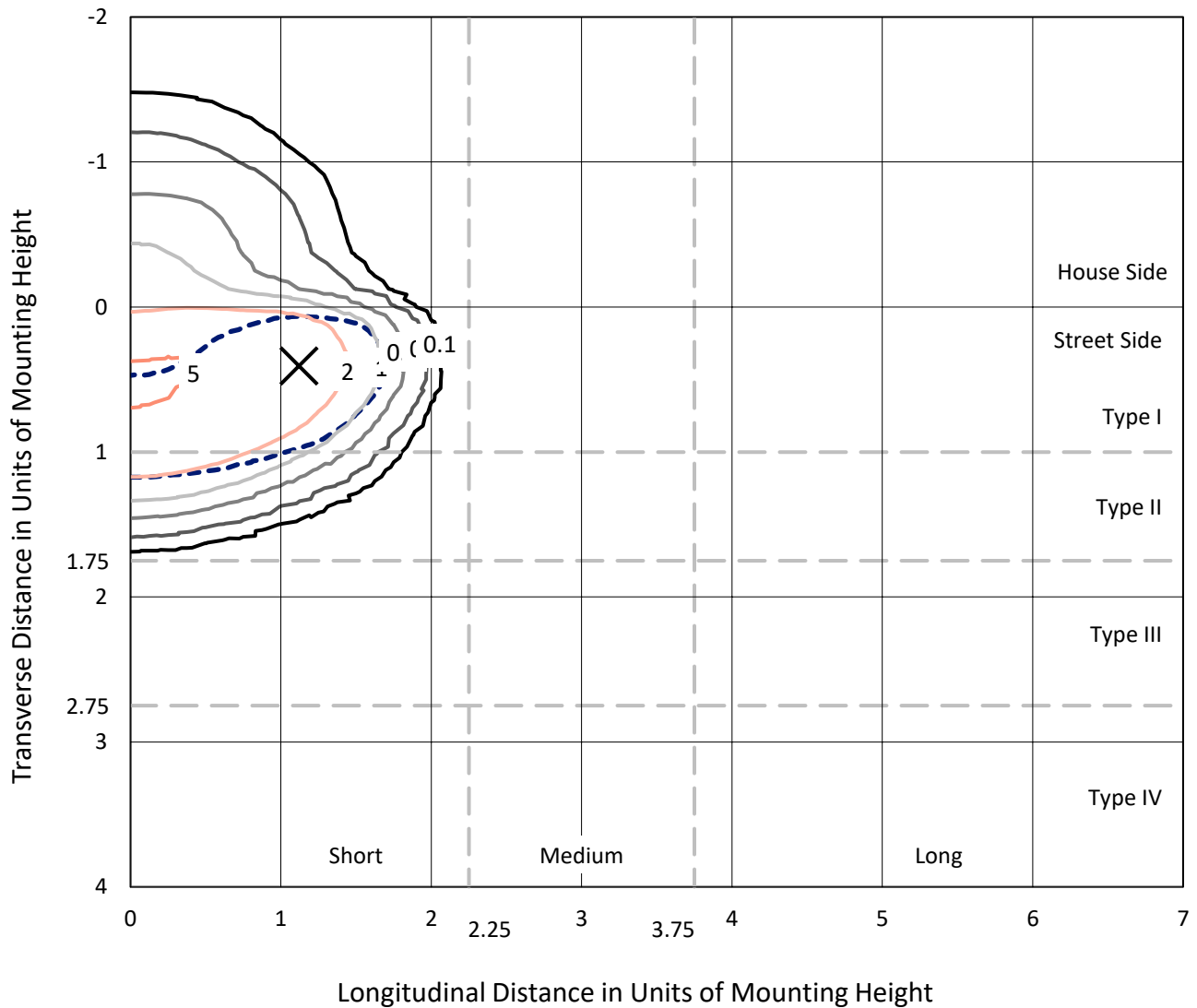
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528007
 CATALOG NUMBER: GALN-SA3A-740-U-T2R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

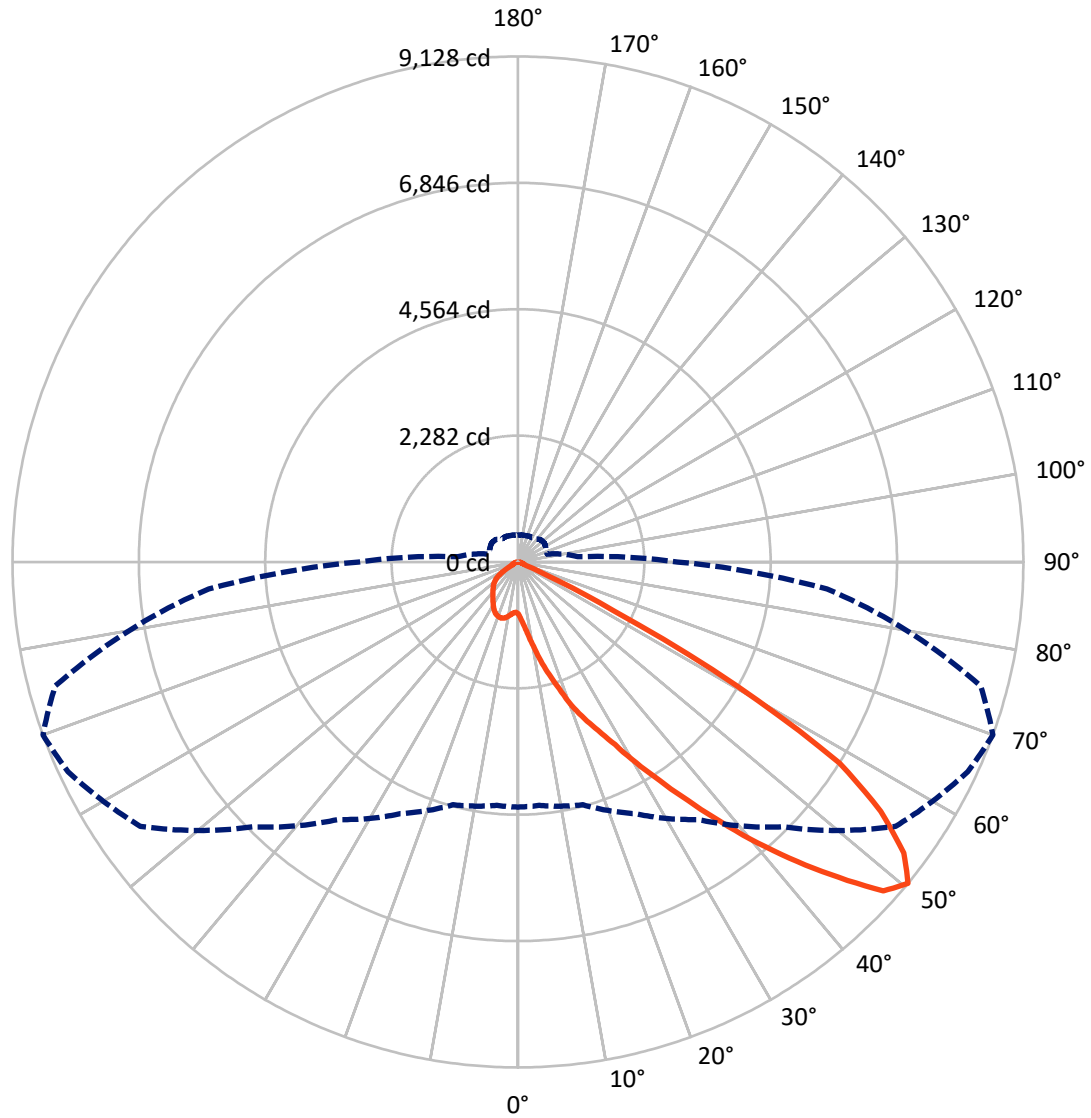
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type I - Short - N/A

REPORT NUMBER: P528007
CATALOG NUMBER: GALN-SA3A-740-U-T2R-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P528007
 CATALOG NUMBER: GALN-SA3A-740-U-T2R-GRSBK

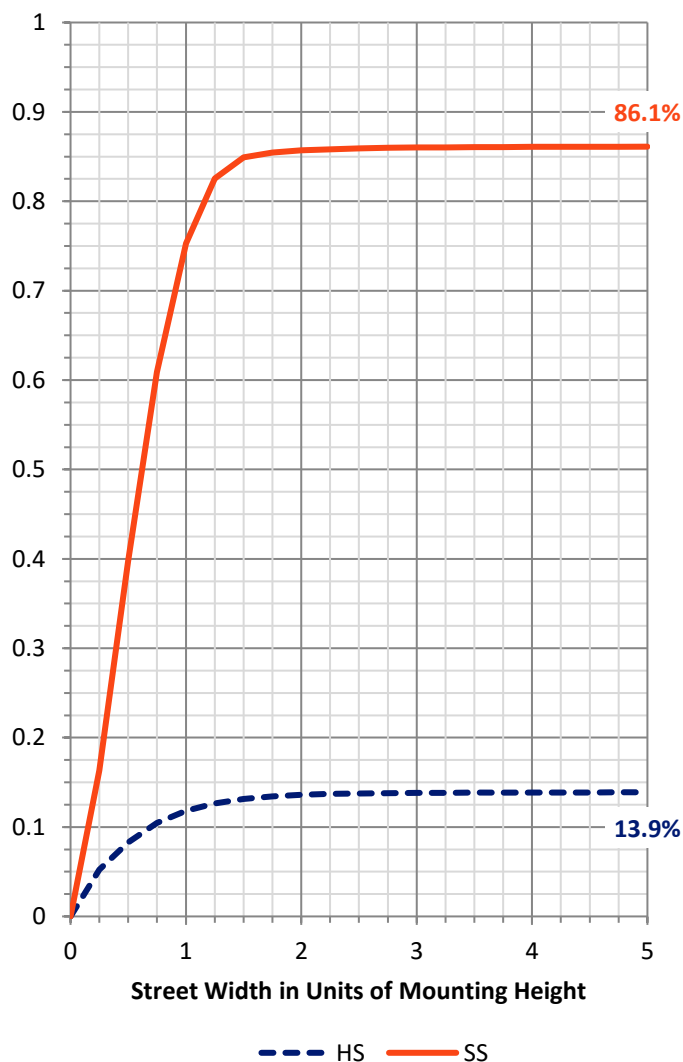
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1261.0	0.0	1261.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	7768.0	0.0	7768.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	9029.0	0.0	9029.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.6	1.3
10°-20°	526.1	5.8
20°-30°	1103.6	12.2
30°-40°	1902.2	21.1
40°-50°	2780.0	30.8
50°-60°	2165.2	24.0
60°-70°	366.9	4.1
70°-80°	50.4	0.6
80°-90°	13.1	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°	9029.0	100.0
0°-180°	9029.0	100.0

Coefficient of Utilization



REPORT NUMBER: P528007

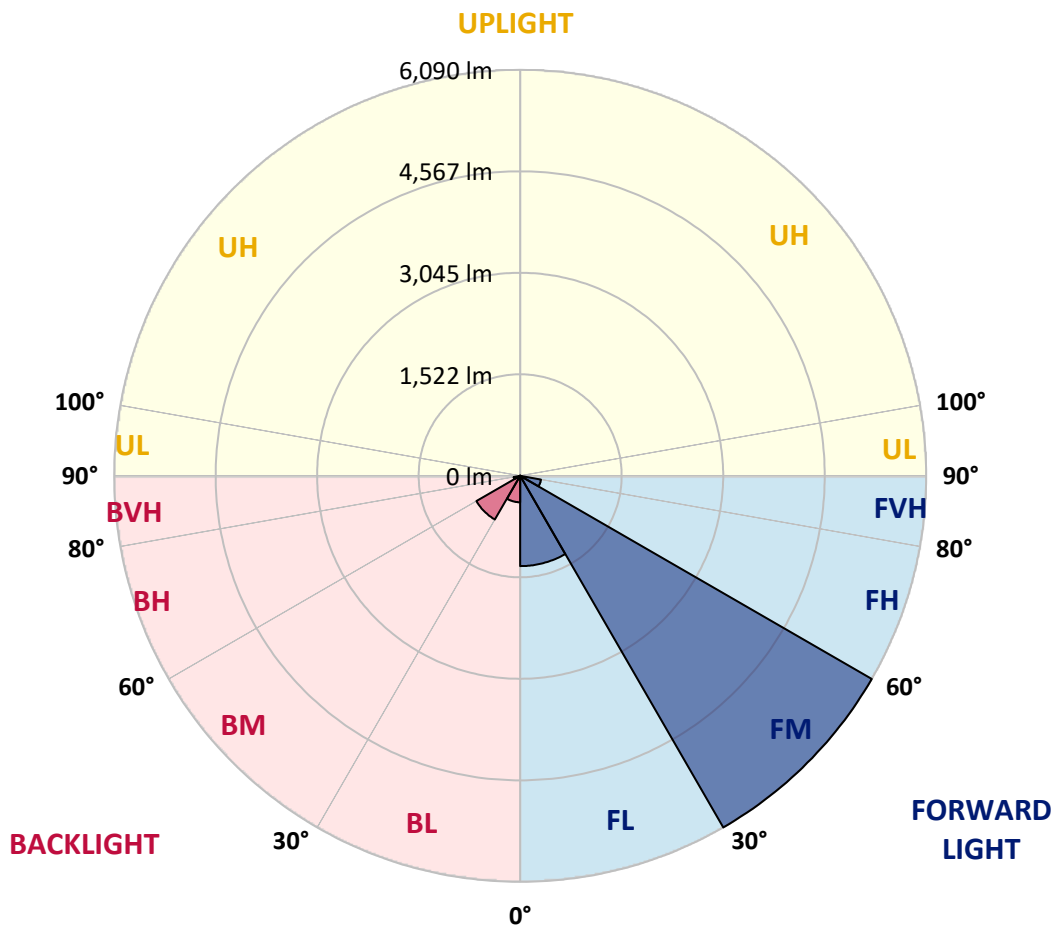
CATALOG NUMBER: GALN-SA3A-740-U-T2R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1354.5	15.0			
FM (30°-60°)	6089.9	67.4			
FH (60°-80°)	317.6	3.5			G0/660
FVH (80°-90°)	6.0	0.1			G0/10
BL (0°-30°)	396.8	4.4	B1/500		
BM (30°-60°)	757.5	8.4	B1/1000		
BH (60°-80°)	99.6	1.1	B0/110		G0/110
BVH (80°-90°)	7.0	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 I Short





REPORT NUMBER: P528007

CATALOG NUMBER: GALN-SA3A-740-U-T2R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	935.2	935.2	935.2	935.2	935.2	935.2	935.2	935.2	935.2	935.2	935.2
2.5°	1224.7	1215.8	1196.5	1160.9	1146.0	1110.4	1089.6	1049.5	1024.3	996.1	964.9
5°	1725.0	1679.0	1650.7	1610.7	1493.4	1420.7	1300.4	1198.0	1150.5	1098.5	1027.3
7.5°	2241.6	2211.9	2173.3	2087.2	2007.0	1855.6	1649.3	1423.6	1327.1	1238.1	1097.0
10°	2669.1	2586.0	2581.5	2517.7	2430.1	2249.0	2001.1	1720.5	1548.3	1417.7	1196.5
12.5°	2967.5	2891.8	2925.9	2918.5	2836.9	2670.6	2384.1	2013.0	1833.3	1630.0	1298.9
15°	3239.1	3208.0	3197.6	3188.7	3156.0	3032.8	2776.0	2369.2	2109.5	1864.5	1414.7
17.5°	3504.9	3424.7	3463.3	3470.7	3467.8	3356.4	3115.9	2707.7	2401.9	2112.4	1536.4
20°	3740.9	3748.3	3696.4	3686.0	3677.1	3672.6	3438.1	3043.2	2761.1	2372.2	1695.3
22.5°	4043.7	3991.8	4037.8	4008.1	3950.2	3914.6	3735.0	3340.1	3072.9	2685.4	1857.1
25°	4401.5	4443.1	4334.7	4322.8	4259.0	4135.8	3974.0	3672.6	3372.8	2976.4	2032.3
27.5°	4842.4	4769.7	4741.5	4676.1	4560.3	4508.4	4318.4	4015.5	3735.0	3282.2	2201.5
30°	5220.9	5201.6	5060.6	4983.4	4882.5	4881.0	4615.3	4480.2	4207.0	3761.7	2434.6
32.5°	5529.7	5445.1	5393.1	5339.7	5258.1	5280.3	5056.2	4984.9	4710.3	4207.0	2709.2
35°	5736.1	5675.2	5644.0	5562.4	5538.6	5638.1	5544.6	5514.9	5289.2	4833.5	3031.3
37.5°	5801.4	5820.7	5814.7	5712.3	5762.8	6031.5	6151.7	6074.5	5955.8	5494.1	3380.2
40°	5859.3	5872.6	5842.9	5963.2	6107.2	6413.0	6847.9	6720.3	6675.7	6163.6	3865.6
42.5°	5891.9	5881.5	5881.5	6089.4	6307.6	6922.2	7520.4	7435.8	7401.7	6876.1	4426.7
45°	5750.9	5650.0	5758.3	6040.4	6479.8	7173.0	8057.8	8175.1	8126.1	7723.8	5082.9
47.5°	5223.9	5286.3	5347.1	5724.2	6270.5	7095.8	8387.3	8786.7	8877.2	8436.3	5513.4
50°	4426.7	4413.4	4539.6	5014.6	5678.2	6763.3	8323.5	8963.3	9128.1	8650.1	5603.9
52.5°	3219.9	3317.8	3454.4	3926.5	4713.2	5902.3	7499.6	8507.6	8727.3	8387.3	5544.6
55°	1874.9	1766.5	2073.8	2473.2	3215.4	4452.0	6340.2	7541.2	7947.9	7909.3	5244.7
57.5°	751.2	727.4	832.8	1122.3	1677.5	2759.7	4610.8	6196.2	6847.9	7244.3	4609.3
60°	329.6	322.1	378.5	457.2	685.8	1272.2	2522.1	3853.7	4533.6	5062.1	3172.3
62.5°	237.5	234.5	262.8	291.0	362.2	553.7	1059.9	1552.8	1935.8	2338.1	1420.7
65°	191.5	198.9	218.2	233.1	267.2	307.3	374.1	432.0	530.0	549.3	313.2
67.5°	155.9	161.8	179.6	196.0	201.9	166.3	172.2	151.4	151.4	135.1	108.4
70°	114.3	115.8	136.6	155.9	124.7	66.8	117.3	117.3	105.4	100.9	92.0
72.5°	84.6	86.1	102.4	96.5	49.0	41.6	86.1	95.0	86.1	81.6	74.2
75°	62.3	63.8	53.4	22.3	20.8	26.7	50.5	65.3	62.3	60.9	56.4
77.5°	11.9	8.9	7.4	10.4	14.8	22.3	32.7	40.1	41.6	44.5	41.6
80°	1.5	1.5	4.5	8.9	16.3	23.8	34.1	38.6	40.1	41.6	38.6
82.5°	0.0	1.5	4.5	8.9	16.3	22.3	29.7	34.1	37.1	38.6	37.1
85°	0.0	1.5	3.0	7.4	13.4	16.3	14.8	10.4	8.9	10.4	7.4
87.5°	0.0	0.0	1.5	1.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0
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: P528007

CATALOG NUMBER: GALN-SA3A-740-U-T2R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	935.2	935.2	935.2	935.2	935.2	935.2	935.2	935.2	935.2	935.2	935.2
2.5°	947.1	941.2	920.4	898.1	878.8	887.7	878.8	871.4	874.4	871.4	868.4
5°	999.1	972.3	927.8	908.5	892.2	890.7	886.2	884.8	886.2	886.2	872.9
7.5°	1048.0	1005.0	957.5	936.7	917.4	918.9	908.5	908.5	907.0	899.6	896.6
10°	1122.3	1064.4	1003.5	966.4	942.6	938.2	927.8	917.4	917.4	917.4	902.6
12.5°	1203.9	1131.2	1048.0	1005.0	976.8	954.5	938.2	935.2	918.9	915.9	908.5
15°	1275.2	1183.1	1077.7	1018.4	982.7	953.0	927.8	911.5	904.1	899.6	893.7
17.5°	1344.9	1227.7	1094.1	1018.4	979.8	945.6	918.9	904.1	886.2	889.2	877.3
20°	1438.5	1275.2	1098.5	999.1	951.6	918.9	883.3	875.8	865.5	856.5	859.5
22.5°	1529.0	1309.3	1085.2	975.3	907.0	868.4	850.6	841.7	837.3	829.8	819.4
25°	1610.7	1346.4	1064.4	932.3	859.5	831.3	815.0	813.5	803.1	803.1	783.8
27.5°	1693.8	1359.8	1028.7	881.8	818.0	801.6	794.2	791.2	786.8	776.4	763.0
30°	1788.8	1364.2	976.8	829.8	780.8	763.0	773.4	780.8	761.5	742.2	748.2
32.5°	1867.5	1353.9	914.4	780.8	754.1	745.2	766.0	773.4	751.2	730.4	720.0
35°	1962.5	1328.6	853.6	742.2	727.4	745.2	763.0	763.0	718.5	693.3	687.3
37.5°	2106.5	1300.4	797.2	709.6	699.2	736.3	760.1	743.7	674.0	642.8	635.4
40°	2260.9	1282.6	742.2	676.9	684.3	721.5	734.8	684.3	613.1	593.8	587.9
42.5°	2485.0	1247.0	693.3	648.7	671.0	700.7	700.7	610.1	583.4	573.0	571.5
45°	2764.1	1221.7	650.2	625.0	651.7	659.1	635.4	571.5	552.2	549.3	550.7
47.5°	2900.7	1172.7	605.7	596.8	616.1	617.5	555.2	540.4	524.0	519.6	516.6
50°	2879.9	1085.2	547.8	559.7	586.4	571.5	506.2	509.2	494.3	492.8	485.4
52.5°	2734.4	947.1	489.9	518.1	547.8	504.7	466.1	463.2	463.2	443.9	436.4
55°	2424.2	763.0	420.1	455.7	491.4	424.6	414.2	411.2	403.8	386.0	381.5
57.5°	1919.4	559.7	316.2	354.8	417.1	360.7	359.2	345.9	326.6	313.2	313.2
60°	1141.6	322.1	198.9	216.7	276.1	292.4	325.1	319.2	286.5	265.7	259.8
62.5°	521.1	166.3	126.2	129.2	148.4	190.0	255.3	295.4	249.4	213.8	210.8
65°	175.2	123.2	103.9	99.5	102.4	114.3	152.9	209.3	198.9	164.8	158.8
67.5°	106.9	109.9	98.0	90.6	90.6	89.1	87.6	95.0	117.3	114.3	115.8
70°	92.0	100.9	90.6	81.6	78.7	74.2	62.3	52.0	44.5	52.0	54.9
72.5°	74.2	80.2	77.2	69.8	62.3	56.4	44.5	34.1	25.2	22.3	22.3
75°	54.9	59.4	62.3	53.4	47.5	40.1	32.7	22.3	13.4	8.9	8.9
77.5°	40.1	44.5	46.0	41.6	35.6	28.2	20.8	14.8	7.4	3.0	3.0
80°	34.1	40.1	44.5	41.6	37.1	26.7	19.3	10.4	5.9	1.5	1.5
82.5°	32.7	40.1	44.5	40.1	35.6	25.2	19.3	11.9	4.5	1.5	1.5
85°	7.4	10.4	13.4	16.3	19.3	19.3	14.8	8.9	4.5	1.5	1.5
87.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	1.5	1.5	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)