

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: P527303

Luminaire Tested: **GALN-SA2B-740-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527303
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-740-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6750 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

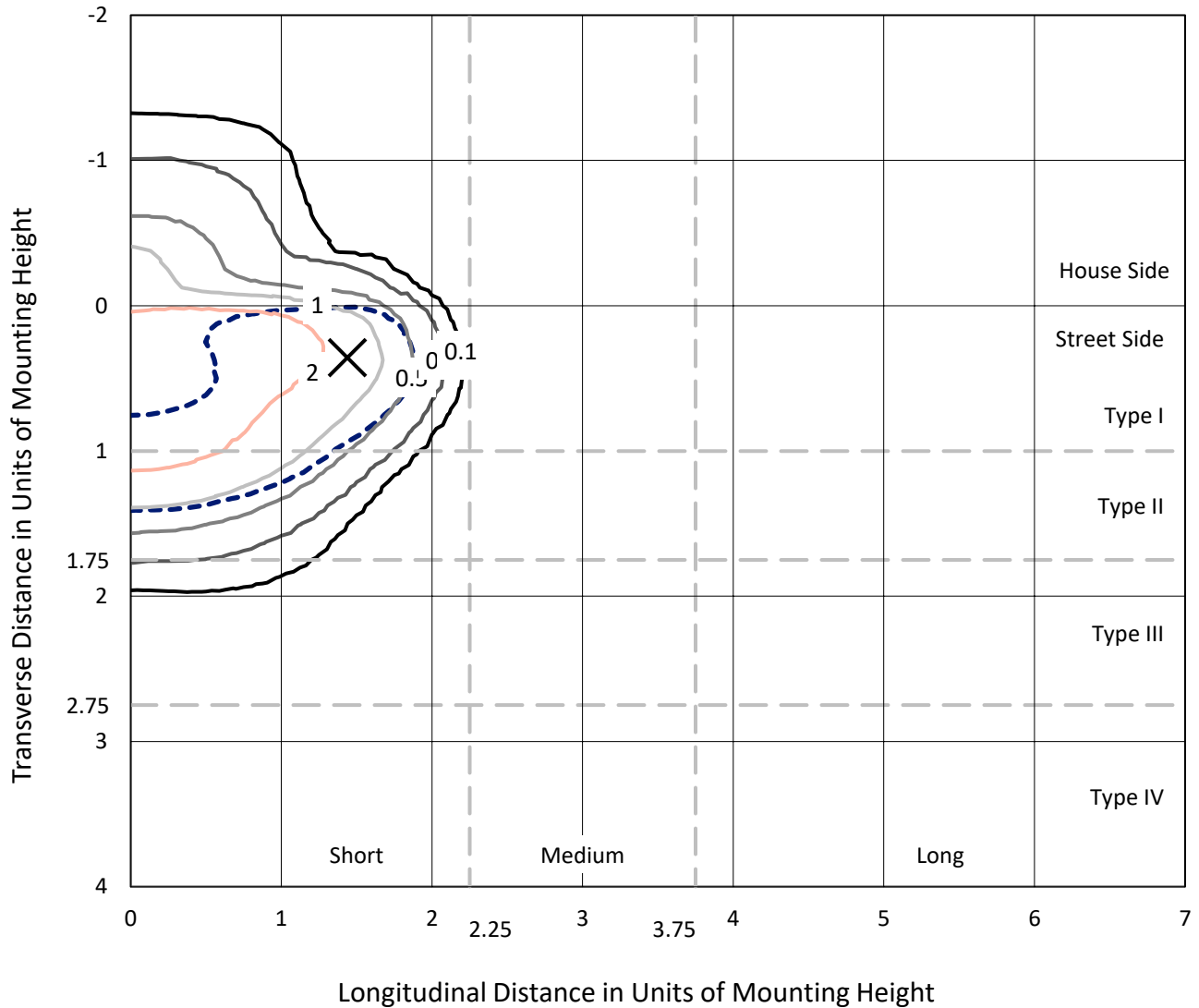
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527303
 CATALOG NUMBER: GALN-SA2B-740-U-T2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

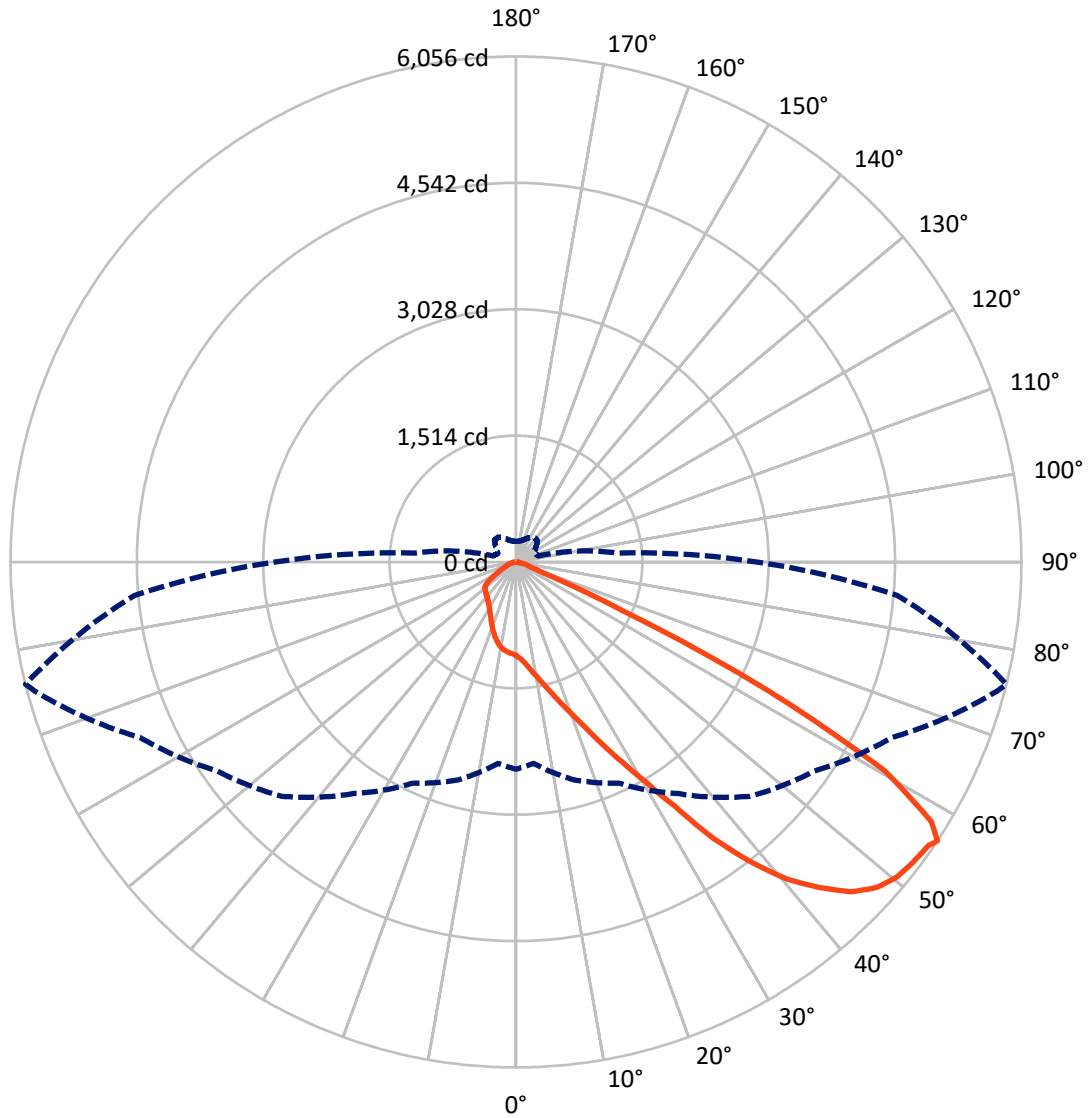
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Short - N/A

REPORT NUMBER: P527303
CATALOG NUMBER: GALN-SA2B-740-U-T2-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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 CATALOG NUMBER: GALN-SA2B-740-U-T2-GRSBK

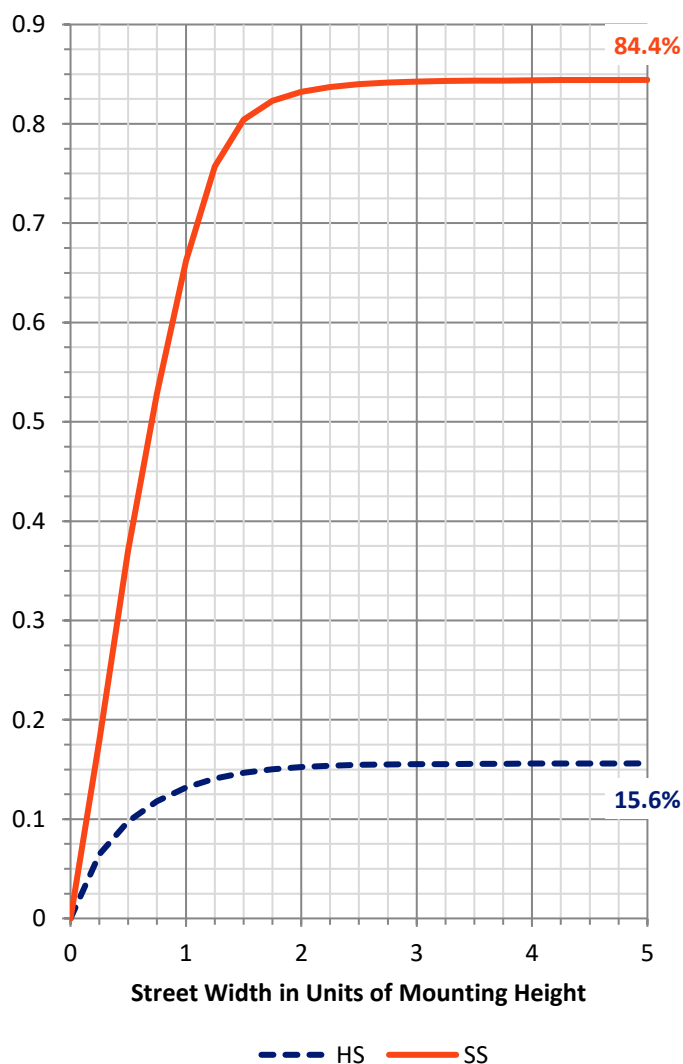
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1060.4	0.0	1060.4
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	5689.6	0.0	5689.6
	% Fixture	84.3	0.0	84.3
Total	Lumens	6750.0	0.0	6750.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	1.7
10°-20°	363.6	5.4
20°-30°	659.3	9.8
30°-40°	1137.0	16.8
40°-50°	1847.2	27.4
50°-60°	1947.0	28.8
60°-70°	594.9	8.8
70°-80°	76.3	1.1
80°-90°	11.6	0.2
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°	6750.0	100.0
0°-180°	6750.0	100.0

Coefficient of Utilization

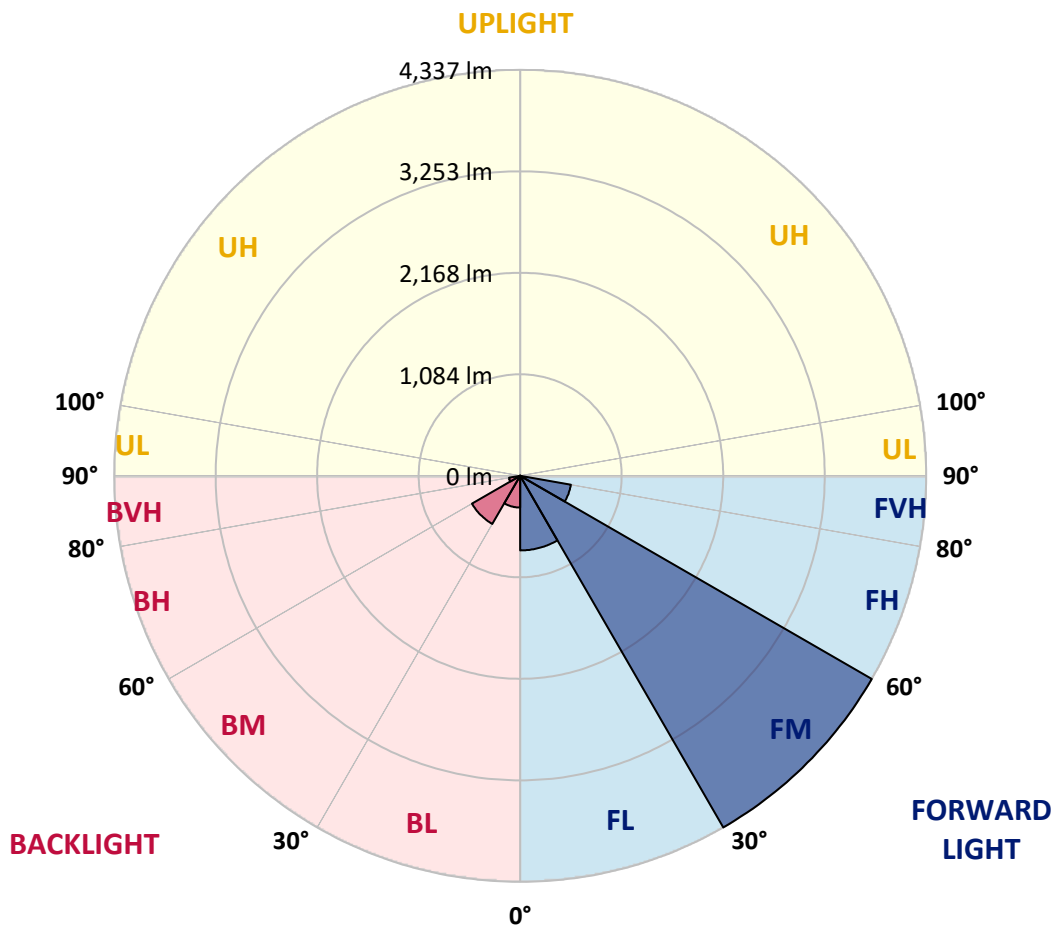


REPORT NUMBER: P527303
 CATALOG NUMBER: GALN-SA2B-740-U-T2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	796.9	11.8			
FM (30°-60°)	4336.9	64.2			
FH (60°-80°)	550.2	8.2			G0/660
FVH (80°-90°)	5.7	0.1			G0/10
BL (0°-30°)	339.2	5.0	B1/500		
BM (30°-60°)	594.3	8.8	B1/1000		
BH (60°-80°)	121.0	1.8	B1/500		G1/500
BVH (80°-90°)	5.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





REPORT NUMBER: P527303

CATALOG NUMBER: GALN-SA2B-740-U-T2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5
2.5°	1294.0	1264.1	1265.4	1262.9	1259.2	1245.5	1204.4	1198.2	1170.8	1163.4	1138.5
5°	1449.5	1423.4	1438.3	1415.9	1394.8	1382.3	1315.2	1284.1	1240.5	1224.3	1189.5
7.5°	1546.6	1534.1	1529.2	1530.4	1510.5	1479.4	1449.5	1381.1	1322.6	1310.2	1236.8
10°	1593.9	1586.4	1593.9	1590.1	1598.8	1602.6	1550.3	1509.3	1423.4	1402.3	1287.8
12.5°	1605.1	1620.0	1626.2	1642.4	1663.5	1699.6	1695.9	1639.9	1525.4	1511.8	1366.2
15°	1632.4	1644.9	1638.7	1664.8	1704.6	1765.6	1797.9	1789.2	1666.0	1641.2	1457.0
17.5°	1657.3	1634.9	1656.1	1708.3	1748.2	1841.5	1919.9	1955.9	1819.1	1790.5	1540.4
20°	1690.9	1684.7	1681.0	1707.1	1778.0	1902.4	2058.0	2123.9	1990.8	1960.9	1659.8
22.5°	1792.9	1794.2	1791.7	1753.1	1804.1	1944.7	2178.7	2341.7	2196.1	2171.2	1795.4
25°	1927.3	1911.2	1898.7	1867.6	1861.4	1983.3	2300.6	2607.9	2442.4	2425.0	1942.3
27.5°	2069.2	2069.2	2031.8	2003.2	1963.4	2079.1	2412.6	2866.7	2739.8	2716.2	2070.4
30°	2223.5	2232.2	2227.2	2166.2	2141.3	2183.6	2527.0	3197.7	3080.7	3050.9	2281.9
32.5°	2451.2	2432.5	2453.6	2402.6	2329.2	2366.5	2707.5	3493.8	3523.7	3481.4	2559.4
35°	2752.3	2741.1	2727.4	2644.0	2556.9	2586.8	2962.5	3858.4	4079.9	4058.7	2839.4
37.5°	3022.3	3016.0	3004.8	2947.6	2846.8	2882.9	3252.4	4237.9	4622.3	4552.7	3235.0
40°	3305.9	3339.5	3303.5	3252.4	3160.4	3240.0	3593.4	4463.1	5079.0	4994.4	3537.4
42.5°	3690.4	3664.3	3680.5	3587.1	3537.4	3624.5	3935.5	4688.3	5433.6	5332.8	3858.4
45°	4099.8	4101.0	4057.5	4027.6	3898.2	3992.8	4145.8	4812.7	5716.0	5637.6	4101.0
47.5°	4362.3	4361.1	4408.3	4455.6	4322.5	4229.2	4288.9	4930.9	5861.6	5825.5	4189.4
50°	4321.2	4333.7	4394.7	4571.3	4641.0	4515.3	4423.3	4896.1	5927.6	5923.8	4265.3
52.5°	3758.8	3799.9	3901.9	4157.0	4507.9	4663.4	4563.9	4960.8	5959.9	5966.1	4378.5
55°	2861.7	2884.1	3078.2	3388.1	3776.3	4308.8	4507.9	5011.8	5984.8	5996.0	4515.3
56°	2482.3	2422.5	2702.5	2922.7	3386.8	3969.1	4366.0	4972.0	5969.9	6055.7	4583.8
57.5°	1873.8	1834.0	2060.5	2335.4	2782.1	3396.8	3925.6	4784.1	5869.1	5867.8	4485.5
60°	1139.7	1099.9	1274.1	1435.9	1685.9	2091.6	2652.7	3809.9	4962.0	5066.5	3631.9
62.5°	678.1	703.0	874.7	973.0	1053.9	1096.2	1372.4	2264.5	3310.9	3385.6	2253.3
65°	451.7	460.4	589.8	751.5	787.6	627.1	558.7	917.0	1435.9	1389.8	929.4
67.5°	278.7	298.6	395.7	564.9	625.9	457.9	265.0	342.2	395.7	395.7	268.8
70°	169.2	179.2	263.8	384.5	429.3	294.9	192.9	192.9	190.4	186.6	160.5
72.5°	80.9	87.1	134.4	197.8	201.6	155.5	149.3	163.0	159.3	158.0	133.1
75°	34.8	37.3	47.3	62.2	70.9	65.9	90.8	117.0	120.7	117.0	95.8
77.5°	11.2	12.4	17.4	22.4	23.6	28.6	38.6	48.5	56.0	52.3	47.3
80°	1.2	2.5	5.0	11.2	17.4	22.4	28.6	32.4	36.1	36.1	33.6
82.5°	1.2	1.2	5.0	10.0	16.2	21.2	27.4	31.1	36.1	37.3	34.8
85°	0.0	1.2	3.7	8.7	13.7	13.7	12.4	12.4	8.7	8.7	8.7
87.5°	0.0	0.0	1.2	1.2	1.2	2.5	2.5	2.5	2.5	2.5	2.5
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°	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5	1123.5
2.5°	1133.5	1131.0	1097.4	1076.3	1065.1	1042.7	1029.0	1019.0	1011.6	1002.9	1004.1
5°	1148.4	1139.7	1083.7	1045.2	999.1	974.2	953.1	935.7	924.5	922.0	917.0
7.5°	1190.7	1144.7	1060.1	990.4	931.9	907.1	888.4	877.2	882.2	871.0	879.7
10°	1223.1	1154.7	1031.5	930.7	872.2	853.5	843.6	852.3	864.7	859.8	853.5
12.5°	1262.9	1164.6	985.4	873.5	818.7	805.0	822.4	838.6	863.5	873.5	861.0
15°	1307.7	1175.8	927.0	807.5	772.7	783.9	813.7	842.3	867.2	879.7	887.1
17.5°	1362.4	1172.1	869.7	755.3	729.1	761.5	797.6	823.7	861.0	879.7	874.7
20°	1413.5	1159.6	806.3	703.0	704.2	734.1	764.0	806.3	826.2	851.1	842.3
22.5°	1462.0	1137.2	740.3	666.9	666.9	712.9	727.9	755.3	772.7	785.1	783.9
25°	1530.4	1094.9	685.6	632.1	647.0	676.9	689.3	698.0	690.6	700.5	701.8
27.5°	1578.9	1051.4	640.8	601.0	628.3	650.7	647.0	642.0	624.6	610.9	619.6
30°	1631.2	1000.4	602.2	579.8	594.7	614.7	599.7	584.8	557.4	535.0	536.3
32.5°	1705.9	976.7	568.6	554.9	574.8	577.3	561.2	538.8	511.4	490.2	489.0
35°	1845.2	961.8	540.0	538.8	542.5	543.7	527.6	500.2	489.0	471.6	477.8
37.5°	1984.6	954.3	520.1	515.1	513.9	515.1	496.5	470.3	491.5	490.2	492.7
40°	2162.5	987.9	491.5	485.3	486.5	486.5	462.9	455.4	492.7	496.5	497.7
42.5°	2342.9	1030.2	472.8	452.9	457.9	457.9	445.4	436.7	462.9	438.0	434.2
45°	2499.7	1092.4	452.9	420.6	433.0	439.2	435.5	420.6	404.4	362.1	362.1
47.5°	2550.7	1147.2	429.3	389.4	399.4	426.8	415.6	384.5	355.9	321.0	318.5
50°	2640.3	1206.9	410.6	353.4	374.5	408.1	396.9	365.8	333.5	308.6	309.8
52.5°	2732.3	1275.3	375.8	311.1	337.2	393.2	393.2	358.3	308.6	291.2	288.7
55°	2870.5	1272.9	313.5	255.1	301.1	370.8	377.0	321.0	276.2	262.5	262.5
56°	2890.4	1215.6	282.4	238.9	284.9	364.6	365.8	311.1	263.8	248.8	248.8
57.5°	2741.1	1097.4	247.6	219.0	265.0	353.4	354.6	302.4	253.8	232.7	230.2
60°	2109.0	742.8	206.5	195.3	240.1	318.5	324.7	275.0	222.7	206.5	205.3
62.5°	1190.7	411.8	181.7	176.7	206.5	271.2	289.9	240.1	189.1	180.4	182.9
65°	543.7	226.5	153.0	143.1	166.7	209.0	233.9	197.8	155.5	145.6	145.6
67.5°	199.1	154.3	130.6	113.2	117.0	135.6	151.8	128.2	103.3	88.3	92.1
70°	141.8	129.4	114.5	98.3	90.8	88.3	87.1	72.2	51.0	39.8	42.3
72.5°	114.5	107.0	95.8	83.4	70.9	59.7	51.0	37.3	23.6	16.2	14.9
75°	82.1	78.4	69.7	59.7	49.8	42.3	34.8	23.6	12.4	6.2	6.2
77.5°	42.3	42.3	41.1	37.3	31.1	24.9	19.9	13.7	7.5	2.5	2.5
80°	32.4	34.8	36.1	32.4	28.6	22.4	16.2	10.0	5.0	1.2	1.2
82.5°	31.1	36.1	38.6	33.6	28.6	21.2	16.2	10.0	5.0	1.2	1.2
85°	7.5	7.5	11.2	12.4	16.2	17.4	13.7	8.7	3.7	1.2	1.2
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	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)