

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: P527304

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527304
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
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-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9598 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

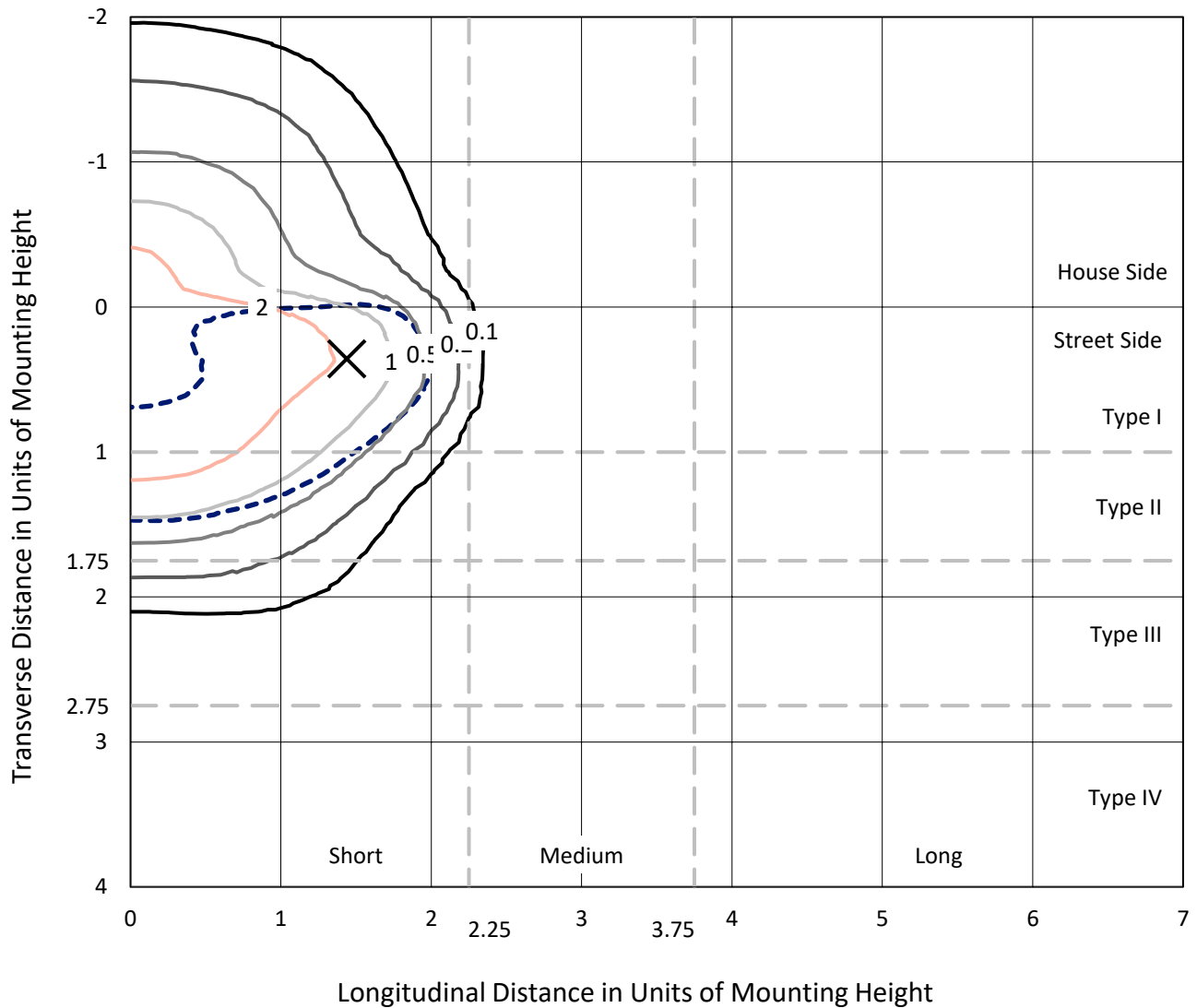
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

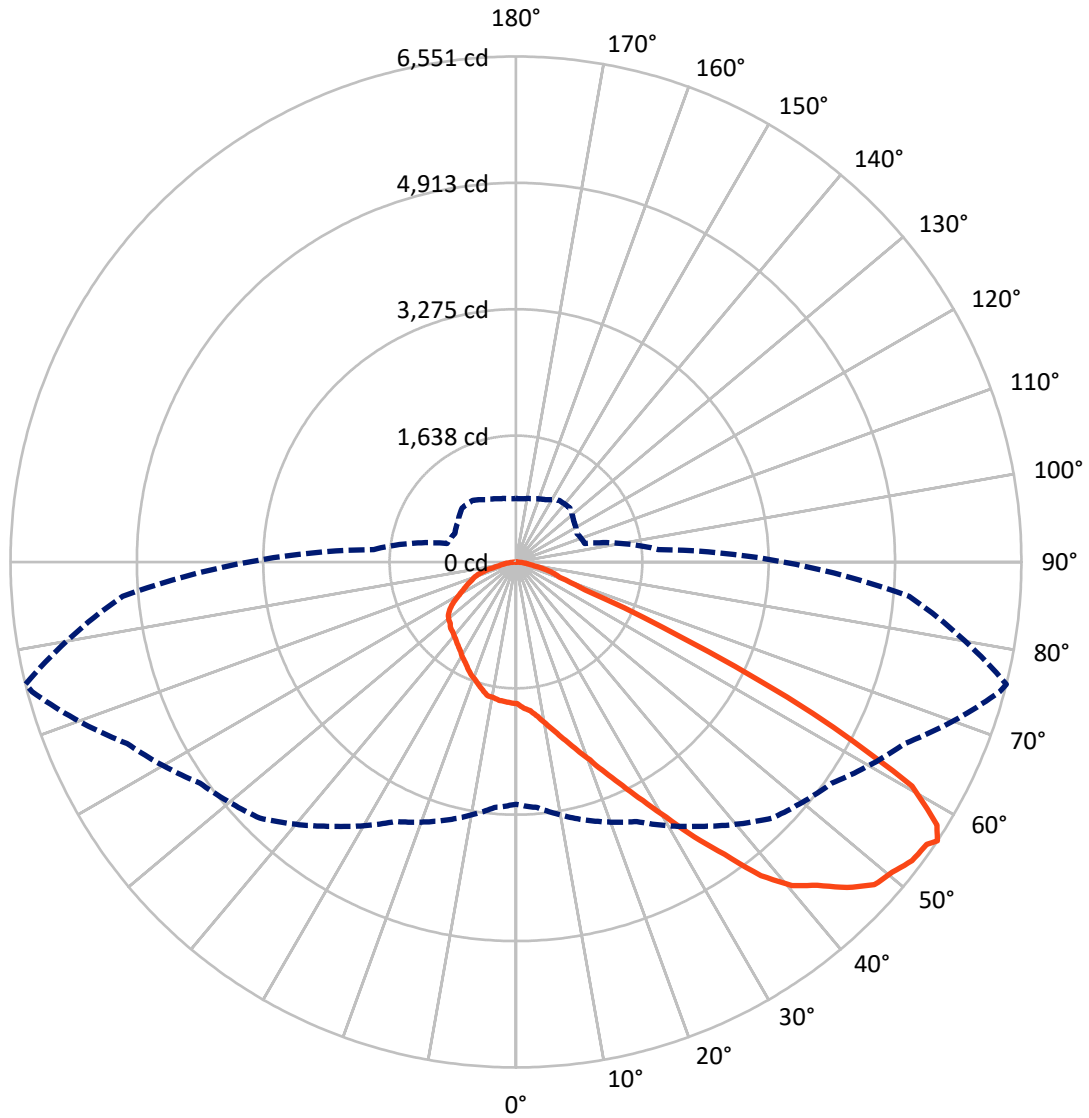
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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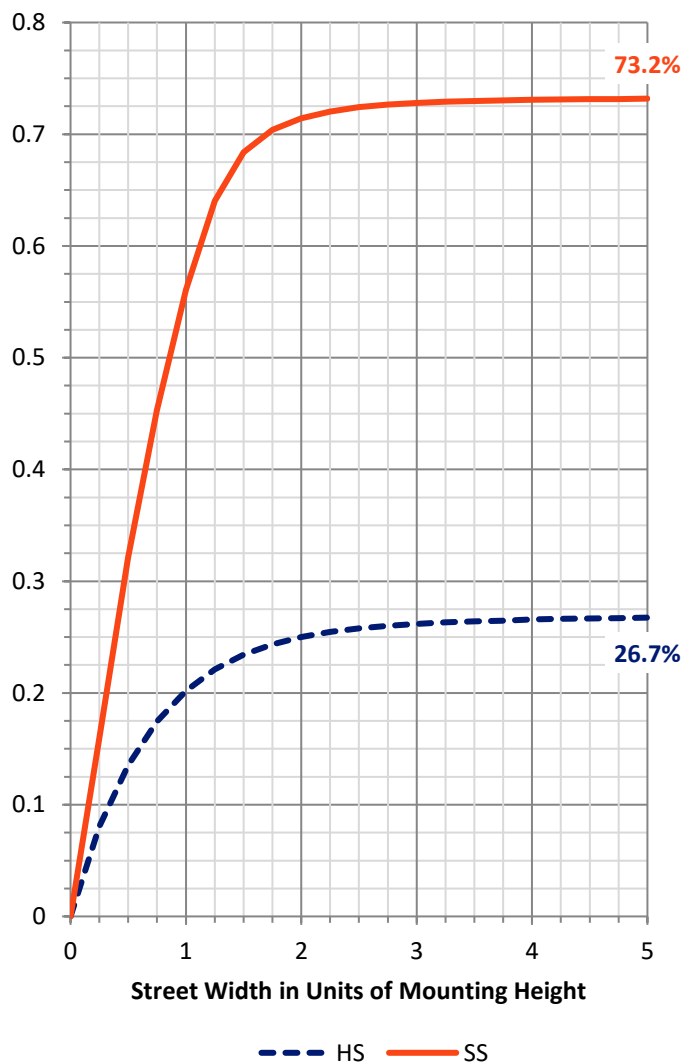
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2580.6	0.0	2580.6
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	7017.4	0.0	7017.4
	% Fixture	73.1	0.0	73.1
Total	Lumens	9598.0	0.0	9598.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.1	1.9
10°-20°	572.1	6.0
20°-30°	1000.5	10.4
30°-40°	1566.5	16.3
40°-50°	2278.9	23.7
50°-60°	2504.6	26.1
60°-70°	1117.9	11.6
70°-80°	322.9	3.4
80°-90°	52.4	0.5
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°	9598.0	100.0
0°-180°	9598.0	100.0

Coefficient of Utilization



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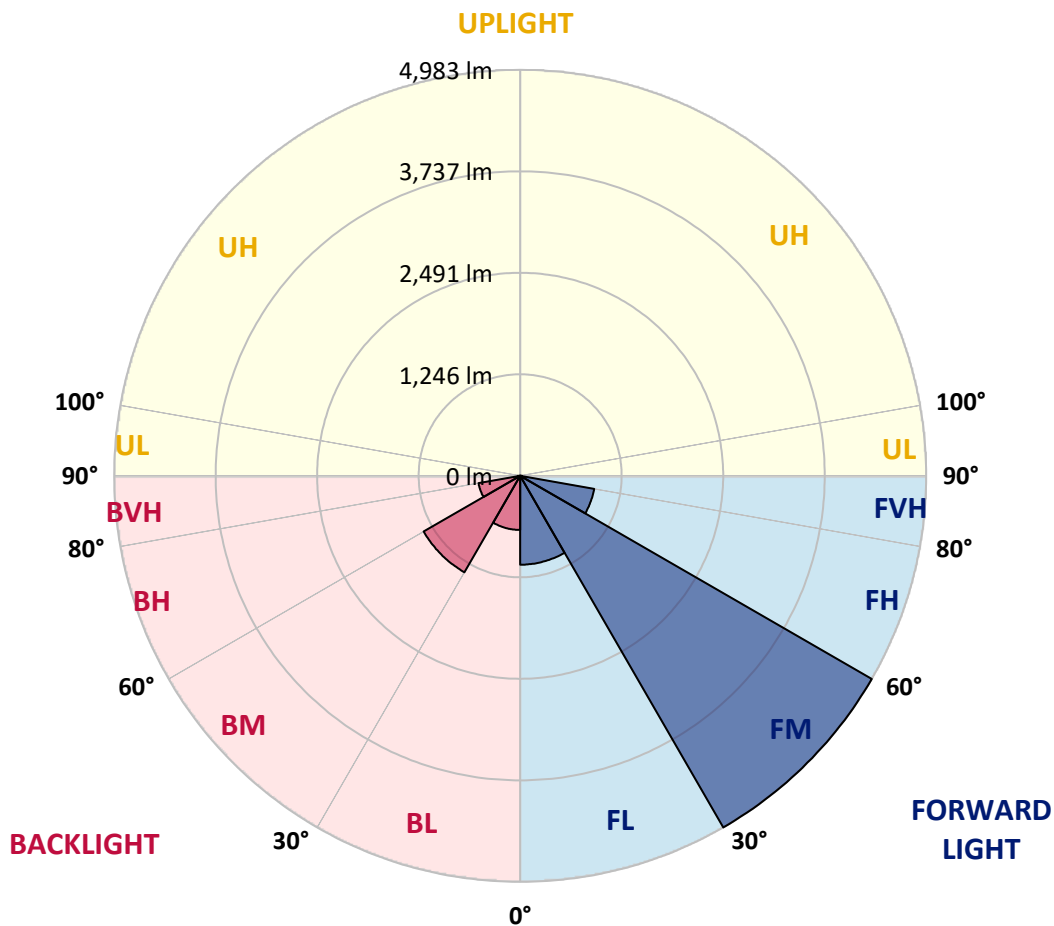
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1090.7	11.4			
FM (30°-60°)	4982.5	51.9			
FH (60°-80°)	921.6	9.6			G1/1800
FVH (80°-90°)	22.5	0.2			G1/100
BL (0°-30°)	664.0	6.9	B2/1000		
BM (30°-60°)	1367.5	14.2	B2/2500		
BH (60°-80°)	519.2	5.4	B2/1000		G2/1000
BVH (80°-90°)	29.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5
2.5°	2023.1	1990.7	1988.2	1979.5	1984.5	1962.1	1938.5	1907.4	1875.0	1894.9	1847.7
5°	2164.9	2121.4	2138.8	2108.9	2112.7	2082.8	2034.3	1998.2	1958.4	1934.7	1901.2
7.5°	2214.7	2218.4	2230.9	2225.9	2201.0	2201.0	2168.7	2105.2	2035.5	2021.8	1965.9
10°	2281.9	2283.1	2269.4	2273.2	2308.0	2291.8	2263.2	2235.8	2146.3	2130.1	2030.6
12.5°	2305.5	2283.1	2305.5	2325.4	2366.5	2388.9	2382.7	2362.8	2267.0	2255.8	2110.2
15°	2309.3	2295.6	2314.2	2359.0	2395.1	2489.7	2536.9	2523.3	2396.3	2397.6	2199.8
17.5°	2291.8	2310.5	2318.0	2356.5	2439.9	2528.2	2665.1	2683.8	2579.2	2563.1	2313.0
20°	2315.5	2301.8	2311.7	2346.6	2457.3	2595.4	2774.6	2897.8	2750.9	2739.8	2429.9
22.5°	2406.3	2387.6	2385.2	2407.5	2487.2	2630.3	2890.3	3111.8	2960.0	2966.2	2575.5
25°	2477.2	2487.2	2478.5	2477.2	2527.0	2682.5	3043.3	3366.8	3243.7	3207.6	2747.2
27.5°	2599.2	2622.8	2605.4	2629.0	2617.8	2760.9	3152.8	3649.3	3549.7	3501.2	2902.7
30°	2768.4	2780.8	2764.6	2764.6	2731.0	2870.4	3252.4	3944.1	3903.1	3837.1	3085.6
32.5°	2991.1	3009.7	2977.4	2958.7	2953.8	3033.4	3431.5	4235.3	4305.0	4249.0	3328.3
35°	3286.0	3274.8	3236.2	3218.8	3151.6	3283.5	3697.8	4570.0	4752.9	4653.3	3621.9
37.5°	3546.0	3528.6	3526.1	3429.0	3445.2	3553.5	3924.2	4823.8	5187.1	5158.5	3931.7
40°	3788.6	3804.8	3830.9	3776.2	3751.3	3870.7	4188.0	5017.9	5524.3	5513.1	4170.6
42.5°	4048.7	4033.7	4079.8	4033.7	3996.4	4165.6	4474.2	5152.3	5820.4	5728.3	4420.7
45°	4425.7	4378.4	4394.5	4398.3	4370.9	4433.1	4592.4	5249.3	6028.2	6018.2	4603.6
47.5°	4740.4	4741.7	4714.3	4693.2	4609.8	4672.0	4724.3	5310.3	6267.1	6250.9	4674.5
50°	4857.4	4841.2	4920.9	4966.9	4971.9	4845.0	4827.5	5343.9	6392.8	6321.8	4745.4
52.5°	4436.9	4451.8	4577.4	4851.2	5009.2	5022.9	4948.2	5413.6	6443.8	6428.8	4802.7
55°	3570.9	3643.0	3849.6	4165.6	4540.1	4952.0	5078.9	5485.7	6471.1	6458.7	5056.5
56°	3139.1	3195.1	3463.9	3711.5	4181.8	4694.4	4996.7	5562.9	6492.3	6550.8	5116.2
57.5°	2527.0	2591.7	2784.5	3065.7	3620.7	4204.2	4770.3	5468.3	6410.2	6432.6	5159.7
60°	1580.1	1586.4	1817.8	2003.2	2393.9	2963.7	3640.6	4757.9	5932.4	5900.0	4634.7
62.5°	1036.4	1037.7	1247.9	1399.7	1577.7	1708.3	2142.5	3155.3	4377.1	4319.9	3299.6
65°	727.9	744.0	907.0	1109.8	1182.0	1113.6	1099.9	1663.5	2444.9	2362.8	1773.0
67.5°	532.5	533.8	678.1	895.8	1000.3	847.3	688.0	812.5	968.0	965.5	821.2
70°	352.1	367.0	477.8	669.4	788.8	680.6	562.4	581.0	615.9	615.9	610.9
72.5°	205.3	219.0	292.4	424.3	442.9	425.5	445.4	497.7	520.1	518.8	512.6
75°	117.0	123.2	139.4	176.7	220.2	260.0	327.2	377.0	399.4	413.1	396.9
77.5°	68.4	72.2	82.1	100.8	114.5	140.6	177.9	212.8	242.6	238.9	241.4
80°	36.1	36.1	46.0	59.7	79.6	99.5	118.2	138.1	154.3	158.0	161.7
82.5°	21.2	22.4	29.9	43.5	57.2	70.9	90.8	104.5	119.4	120.7	123.2
85°	11.2	12.4	18.7	28.6	38.6	43.5	44.8	42.3	46.0	43.5	49.8
87.5°	3.7	3.7	6.2	5.0	5.0	6.2	7.5	7.5	10.0	10.0	10.0
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°	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5	1836.5
2.5°	1846.4	1846.4	1825.3	1785.4	1779.2	1763.0	1748.1	1746.9	1735.7	1725.7	1720.7
5°	1881.2	1842.7	1811.6	1775.5	1733.2	1713.3	1690.9	1666.0	1656.0	1666.0	1664.8
7.5°	1921.1	1888.7	1795.4	1728.2	1679.7	1659.8	1634.9	1608.8	1611.3	1611.3	1593.8
10°	1959.6	1916.1	1766.8	1680.9	1610.0	1595.1	1581.4	1591.3	1603.8	1606.3	1595.1
12.5°	2024.3	1926.0	1753.1	1633.6	1588.9	1556.5	1565.2	1592.6	1618.7	1611.3	1620.0
15°	2072.9	1934.7	1690.9	1585.1	1529.1	1544.1	1575.2	1593.8	1637.4	1632.4	1641.1
17.5°	2120.1	1939.7	1629.9	1520.4	1496.8	1537.8	1561.5	1615.0	1628.7	1658.5	1669.7
20°	2217.2	1949.7	1567.7	1480.6	1473.1	1520.4	1561.5	1586.4	1616.2	1642.4	1642.4
22.5°	2267.0	1944.7	1526.6	1428.4	1452.0	1481.9	1519.2	1561.5	1561.5	1586.4	1587.6
25°	2329.2	1924.8	1461.9	1403.5	1420.9	1449.5	1491.8	1476.9	1493.1	1493.1	1513.0
27.5°	2400.1	1882.5	1406.0	1358.7	1393.5	1424.6	1430.8	1420.9	1402.2	1399.7	1392.3
30°	2457.3	1830.2	1364.9	1343.7	1372.4	1389.8	1369.9	1348.7	1316.4	1313.9	1296.5
32.5°	2535.7	1765.5	1313.9	1306.4	1338.8	1340.0	1333.8	1301.4	1254.2	1234.3	1214.3
35°	2667.6	1728.2	1275.3	1286.5	1296.5	1292.7	1281.5	1246.7	1199.4	1190.7	1183.2
37.5°	2764.6	1700.8	1235.5	1249.2	1257.9	1262.9	1229.3	1190.7	1192.0	1174.5	1169.6
40°	2874.1	1683.4	1203.2	1209.4	1210.6	1226.8	1185.7	1167.1	1175.8	1164.6	1172.0
42.5°	3014.7	1688.4	1169.6	1164.6	1188.2	1182.0	1162.1	1137.2	1142.2	1108.6	1113.6
45°	3089.4	1722.0	1149.7	1127.3	1153.4	1152.1	1126.0	1102.4	1072.5	1007.8	1010.3
47.5°	3139.1	1730.7	1102.4	1087.4	1114.8	1131.0	1101.1	1046.4	1004.1	958.0	946.8
50°	3190.2	1746.9	1080.0	1048.9	1060.1	1098.6	1061.3	1009.1	968.0	926.9	933.2
52.5°	3234.9	1778.0	1036.4	990.4	1010.3	1052.6	1032.7	969.2	924.4	890.9	880.9
55°	3434.0	1847.7	963.0	903.3	950.6	1004.1	992.9	915.7	867.2	849.8	847.3
56°	3465.1	1850.1	924.4	873.4	917.0	987.9	974.2	892.1	848.6	821.2	822.4
57.5°	3470.1	1820.3	869.7	846.1	883.4	964.3	946.8	873.4	813.7	788.8	781.4
60°	3053.3	1420.9	801.3	786.3	829.9	892.1	885.9	822.4	755.2	726.6	740.3
62.5°	2081.6	1041.4	747.8	745.3	767.7	828.6	812.5	755.2	699.2	680.6	671.9
65°	1211.9	790.1	695.5	685.6	704.2	736.6	747.8	688.0	629.6	617.1	613.4
67.5°	715.4	653.2	628.3	612.2	605.9	625.8	634.5	599.7	541.2	523.8	538.7
70°	598.5	581.0	582.3	554.9	540.0	526.3	518.8	487.7	439.2	416.8	410.6
72.5°	516.3	508.9	503.9	479.0	465.3	434.2	401.9	370.8	334.7	316.0	317.3
75°	394.4	391.9	394.4	382.0	358.3	333.4	303.6	263.8	236.4	212.8	217.7
77.5°	235.2	242.6	246.4	241.4	231.4	209.0	190.4	164.2	138.1	119.4	117.0
80°	161.7	168.0	174.2	168.0	158.0	141.8	121.9	102.0	83.4	73.4	70.9
82.5°	123.2	129.4	133.1	126.9	114.5	97.0	83.4	69.7	54.7	44.8	42.3
85°	44.8	51.0	49.8	59.7	64.7	62.2	53.5	41.1	31.1	22.4	21.2
87.5°	12.4	11.2	12.4	12.4	12.4	11.2	10.0	10.0	10.0	6.2	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)