

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: P527671

Luminaire Tested: **GALN-SA2D-722-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527671
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-722-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6829 lumens
Efficiency: N/A
Efficacy: 54.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

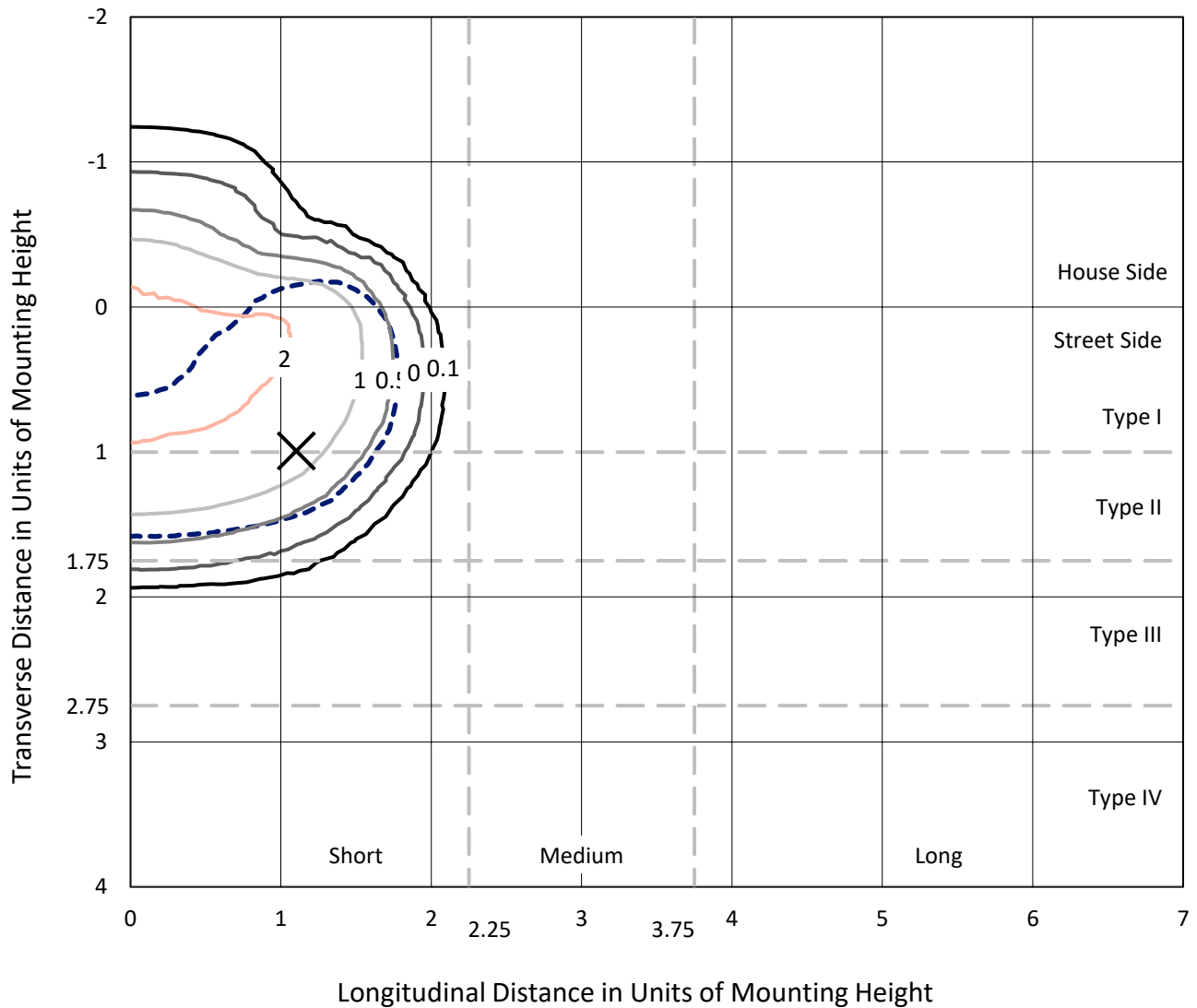
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527671
 CATALOG NUMBER: GALN-SA2D-722-U-T3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

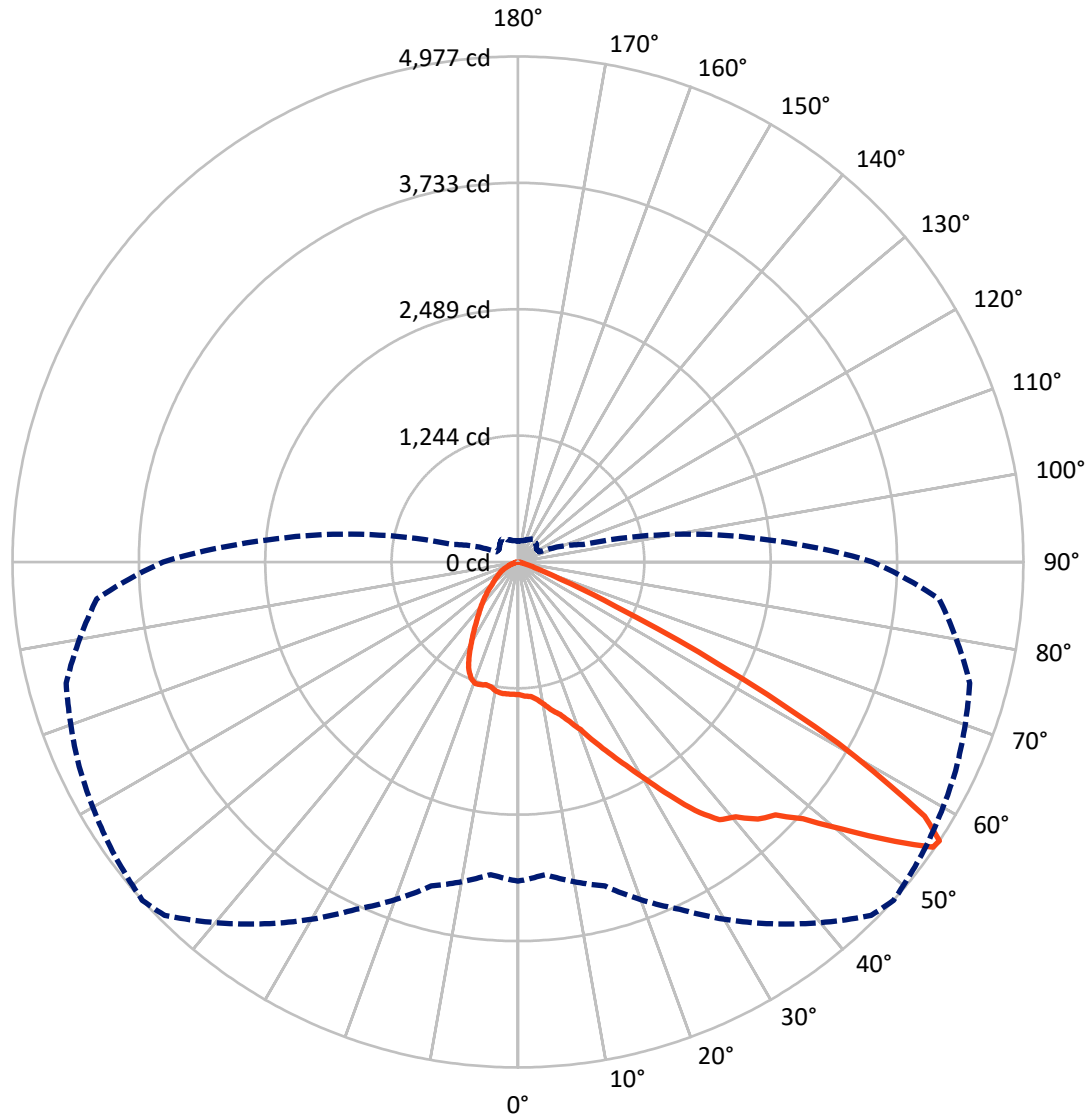
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Short - N/A

REPORT NUMBER: P527671
CATALOG NUMBER: GALN-SA2D-722-U-T3-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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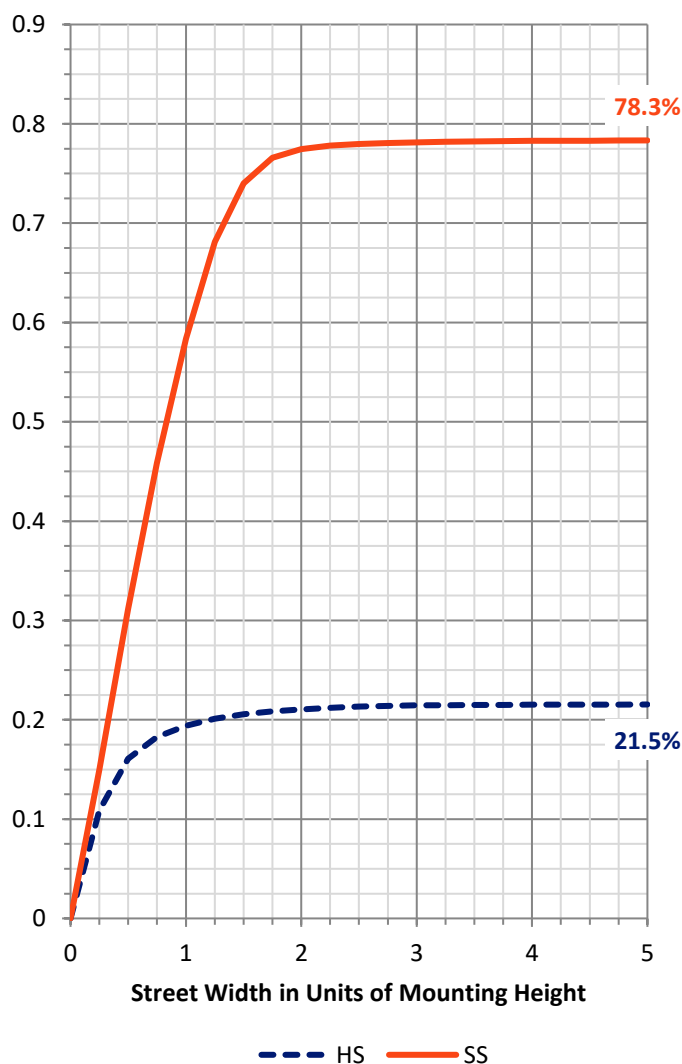
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1485.2	0.0	1485.2
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	5343.8	0.0	5343.8
	% Fixture	78.3	0.0	78.3
Total	Lumens	6829.0	0.0	6829.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.1	1.9
10°-20°	406.1	5.9
20°-30°	736.5	10.8
30°-40°	1156.9	16.9
40°-50°	1687.7	24.7
50°-60°	2033.4	29.8
60°-70°	595.3	8.7
70°-80°	75.5	1.1
80°-90°	10.6	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°	6829.0	100.0
0°-180°	6829.0	100.0

Coefficient of Utilization

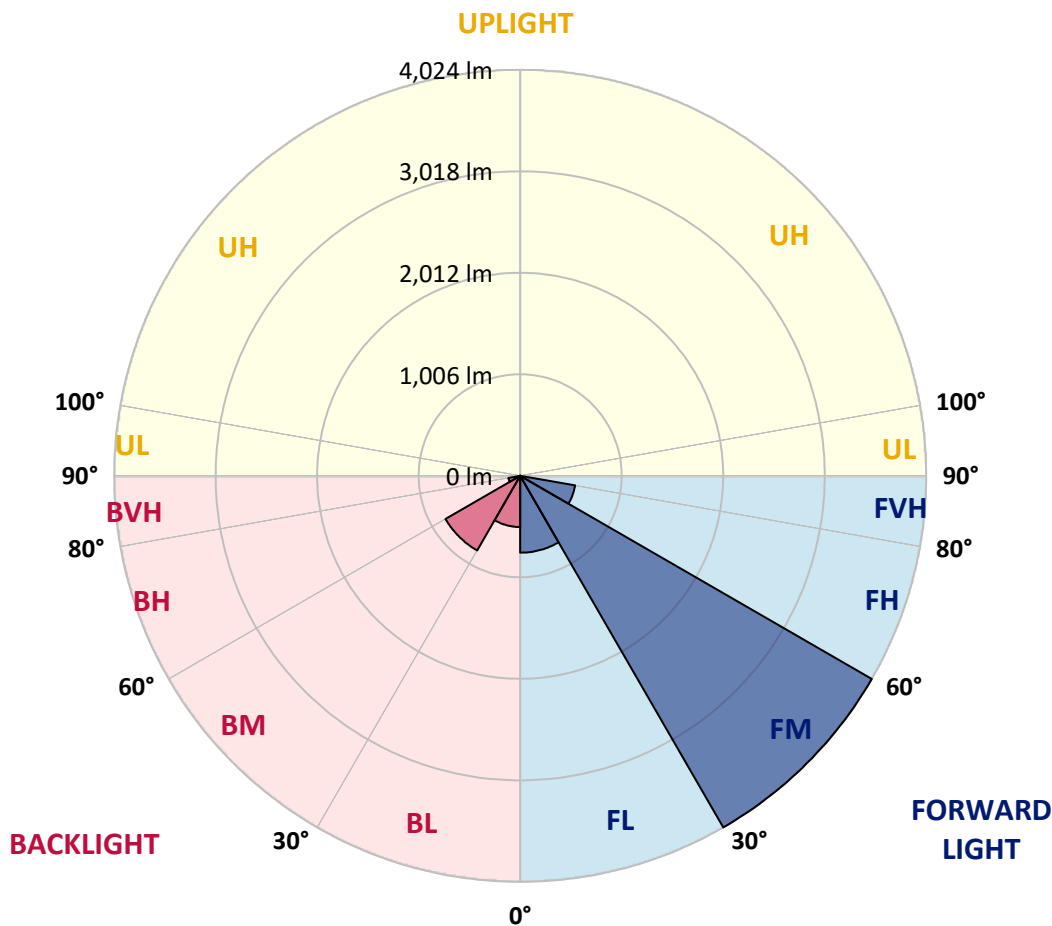


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	762.0	11.2			
FM (30°-60°)	4023.7	58.9			
FH (60°-80°)	552.9	8.1			G0/660
FVH (80°-90°)	5.3	0.1			G0/10
BL (0°-30°)	507.6	7.4	B2/1000		
BM (30°-60°)	854.3	12.5	B1/1000		
BH (60°-80°)	118.0	1.7	B1/500		G1/500
BVH (80°-90°)	5.3	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 II Short





REPORT NUMBER: P527671

CATALOG NUMBER: GALN-SA2D-722-U-T3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1328.0	1321.7	1321.7	1311.8	1323.0	1318.0	1321.7	1309.3	1321.7	1303.1	1318.0
5°	1334.2	1335.4	1330.5	1336.7	1336.7	1344.1	1331.7	1342.9	1349.1	1335.4	1329.2
7.5°	1366.5	1369.0	1367.8	1362.8	1372.7	1371.5	1370.2	1361.5	1364.0	1359.1	1351.6
10°	1429.9	1428.7	1434.9	1422.5	1415.0	1423.7	1426.2	1412.5	1402.6	1398.8	1375.2
12.5°	1521.9	1507.0	1498.3	1485.9	1489.6	1477.2	1499.6	1475.9	1471.0	1448.6	1425.0
15°	1596.5	1594.1	1595.3	1575.4	1553.0	1558.0	1558.0	1545.6	1538.1	1510.7	1477.2
17.5°	1749.5	1697.3	1708.5	1683.6	1664.9	1663.7	1652.5	1655.0	1635.1	1577.9	1526.9
20°	1868.9	1846.5	1829.1	1786.8	1758.2	1766.9	1761.9	1749.5	1743.3	1668.7	1596.5
22.5°	1975.8	1983.2	1954.6	1943.5	1903.7	1907.4	1917.3	1906.2	1858.9	1781.8	1674.9
25°	2126.2	2117.5	2079.0	2065.3	2028.0	2041.7	2080.2	2071.5	2041.7	1902.4	1735.8
27.5°	2304.0	2274.2	2281.7	2219.5	2183.4	2222.0	2268.0	2311.5	2227.0	2044.2	1807.9
30°	2429.6	2398.5	2396.1	2393.6	2384.9	2429.6	2483.1	2522.9	2454.5	2185.9	1927.3
32.5°	2491.8	2499.3	2520.4	2512.9	2588.8	2680.8	2736.8	2794.0	2708.2	2417.2	2085.2
35°	2657.2	2609.9	2657.2	2662.2	2740.5	2935.7	3006.6	3143.4	3122.2	2744.2	2277.9
37.5°	2754.2	2750.4	2756.7	2803.9	2879.7	3121.0	3221.7	3327.4	3287.6	2940.7	2517.9
40°	2914.6	2924.5	2923.3	2959.3	3042.6	3260.2	3301.3	3387.1	3390.8	3213.0	2871.0
42.5°	3172.0	3132.2	3106.0	3143.4	3260.2	3380.8	3462.9	3445.5	3568.6	3543.7	3324.9
45°	3403.2	3426.9	3388.3	3450.5	3492.8	3557.4	3554.9	3592.2	3748.9	3867.0	3666.8
47.5°	3619.6	3634.5	3653.2	3695.4	3787.4	3797.4	3776.3	3760.1	3976.4	4098.3	3931.7
50°	3748.9	3762.6	3849.6	3925.5	4097.1	4119.4	4131.9	4090.8	4237.6	4251.2	4181.6
52.5°	3714.1	3729.0	3850.9	4100.8	4374.3	4579.5	4542.2	4472.6	4463.9	4517.3	4412.9
55°	3405.7	3392.0	3559.9	3949.1	4461.4	4953.8	4958.7	4885.4	4744.9	4708.8	4378.1
56°	3143.4	3089.9	3303.8	3773.8	4349.5	4921.4	4977.4	4899.1	4767.3	4605.6	4163.0
57.5°	2575.1	2626.1	2838.7	3227.9	3962.8	4688.9	4721.2	4702.6	4603.1	4332.1	3663.1
60°	1420.0	1509.5	1697.3	2173.5	2821.3	3598.4	3624.6	3776.3	3794.9	3317.4	2520.4
62.5°	603.1	593.1	788.3	1139.0	1606.5	2172.2	2220.7	2376.2	2404.8	1912.4	1264.6
65°	245.0	258.6	356.9	573.2	849.3	989.8	1058.1	1109.1	1203.6	789.6	466.3
67.5°	161.6	160.4	210.1	327.0	457.6	441.4	441.4	466.3	431.5	322.0	201.4
70°	115.6	119.4	150.5	226.3	284.7	211.4	202.7	194.0	220.1	212.6	162.9
72.5°	75.8	80.8	100.7	135.5	148.0	115.6	115.6	139.3	181.5	171.6	133.0
75°	49.7	51.0	62.2	78.3	73.4	59.7	65.9	93.3	131.8	126.8	94.5
77.5°	33.6	34.8	42.3	51.0	41.0	33.6	36.1	47.2	64.7	64.7	49.7
80°	12.4	13.7	17.4	16.2	18.7	23.6	26.1	32.3	38.5	38.5	33.6
82.5°	0.0	1.2	3.7	8.7	13.7	18.7	21.1	24.9	28.6	32.3	31.1
85°	0.0	1.2	3.7	6.2	9.9	11.2	12.4	8.7	7.5	7.5	6.2
87.5°	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	2.5	1.2	1.2
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1304.3	1303.1	1303.1	1299.4	1306.8	1303.1	1305.6	1304.3	1288.2	1300.6	1291.9
5°	1318.0	1326.7	1313.0	1310.6	1300.6	1304.3	1304.3	1291.9	1303.1	1301.9	1299.4
7.5°	1352.8	1337.9	1323.0	1308.1	1305.6	1301.9	1288.2	1283.2	1291.9	1282.0	1296.9
10°	1367.8	1370.2	1347.9	1328.0	1309.3	1283.2	1264.6	1253.4	1239.7	1254.6	1263.3
12.5°	1436.1	1411.3	1372.7	1341.6	1278.2	1252.1	1233.5	1228.5	1252.1	1257.1	1248.4
15°	1459.8	1456.0	1406.3	1336.7	1270.8	1239.7	1243.4	1233.5	1236.0	1223.5	1226.0
17.5°	1508.3	1466.0	1407.5	1320.5	1269.5	1262.1	1239.7	1199.9	1177.5	1167.6	1176.3
20°	1561.7	1520.7	1436.1	1326.7	1280.7	1260.8	1187.5	1139.0	1093.0	1068.1	1069.3
22.5°	1609.0	1558.0	1423.7	1329.2	1290.7	1208.6	1120.3	1024.6	967.4	928.8	930.1
25°	1666.2	1594.1	1428.7	1334.2	1264.6	1125.3	998.5	905.2	836.8	810.7	819.4
27.5°	1698.5	1616.4	1456.0	1345.4	1196.2	1007.2	870.4	783.4	743.6	731.1	729.9
30°	1795.5	1666.2	1489.6	1323.0	1081.8	880.3	753.5	700.0	661.5	650.3	652.8
32.5°	1939.7	1756.9	1533.1	1264.6	964.9	767.2	677.7	637.9	601.8	580.7	578.2
35°	2060.3	1912.4	1579.1	1173.8	829.4	680.1	624.2	574.5	519.7	496.1	489.9
37.5°	2290.4	2087.7	1569.2	1037.0	700.0	615.5	567.0	506.1	458.8	426.5	422.8
40°	2596.2	2292.9	1520.7	870.4	604.3	558.3	506.1	447.6	389.2	361.8	359.3
42.5°	2968.0	2544.0	1432.4	701.3	508.6	501.1	453.8	386.7	334.5	314.6	315.8
45°	3270.2	2759.1	1342.9	563.3	437.7	445.1	404.1	340.7	304.6	288.5	288.5
47.5°	3538.8	2904.6	1245.9	465.0	371.8	389.2	353.1	315.8	284.7	272.3	269.8
50°	3797.4	3052.6	1148.9	376.8	317.1	334.5	330.7	300.9	276.0	261.1	262.4
52.5°	3959.0	3076.2	1025.8	308.4	277.3	297.2	309.6	282.3	254.9	246.2	243.7
55°	3761.3	2771.6	795.8	253.7	235.0	261.1	284.7	253.7	232.5	217.6	216.4
56°	3495.2	2478.1	665.2	233.8	222.6	251.2	276.0	242.5	218.8	210.1	203.9
57.5°	2959.3	2028.0	491.1	207.7	206.4	233.8	262.4	231.3	203.9	196.5	196.5
60°	1845.2	1141.5	297.2	174.1	179.1	207.7	236.2	206.4	181.5	181.5	185.3
62.5°	840.5	475.0	180.3	148.0	154.2	179.1	210.1	186.5	172.8	186.5	189.0
65°	286.0	205.2	130.6	118.1	121.9	148.0	180.3	189.0	187.8	196.5	201.4
67.5°	160.4	131.8	109.4	98.2	95.7	109.4	148.0	189.0	181.5	177.8	180.3
70°	135.5	111.9	97.0	87.0	83.3	88.3	114.4	143.0	128.1	124.3	121.9
72.5°	109.4	93.3	84.6	78.3	67.1	57.2	52.2	54.7	60.9	64.7	70.9
75°	77.1	70.9	70.9	63.4	48.5	36.1	28.6	23.6	16.2	11.2	12.4
77.5°	43.5	43.5	44.8	38.5	31.1	23.6	17.4	12.4	6.2	2.5	1.2
80°	29.8	32.3	34.8	31.1	26.1	21.1	14.9	8.7	3.7	0.0	0.0
82.5°	29.8	33.6	36.1	31.1	26.1	19.9	14.9	8.7	3.7	1.2	0.0
85°	6.2	7.5	8.7	9.9	14.9	14.9	11.2	7.5	3.7	1.2	0.0
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0	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)