

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: P451373

Luminaire Tested: **GALN-SA2B-727-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7492 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

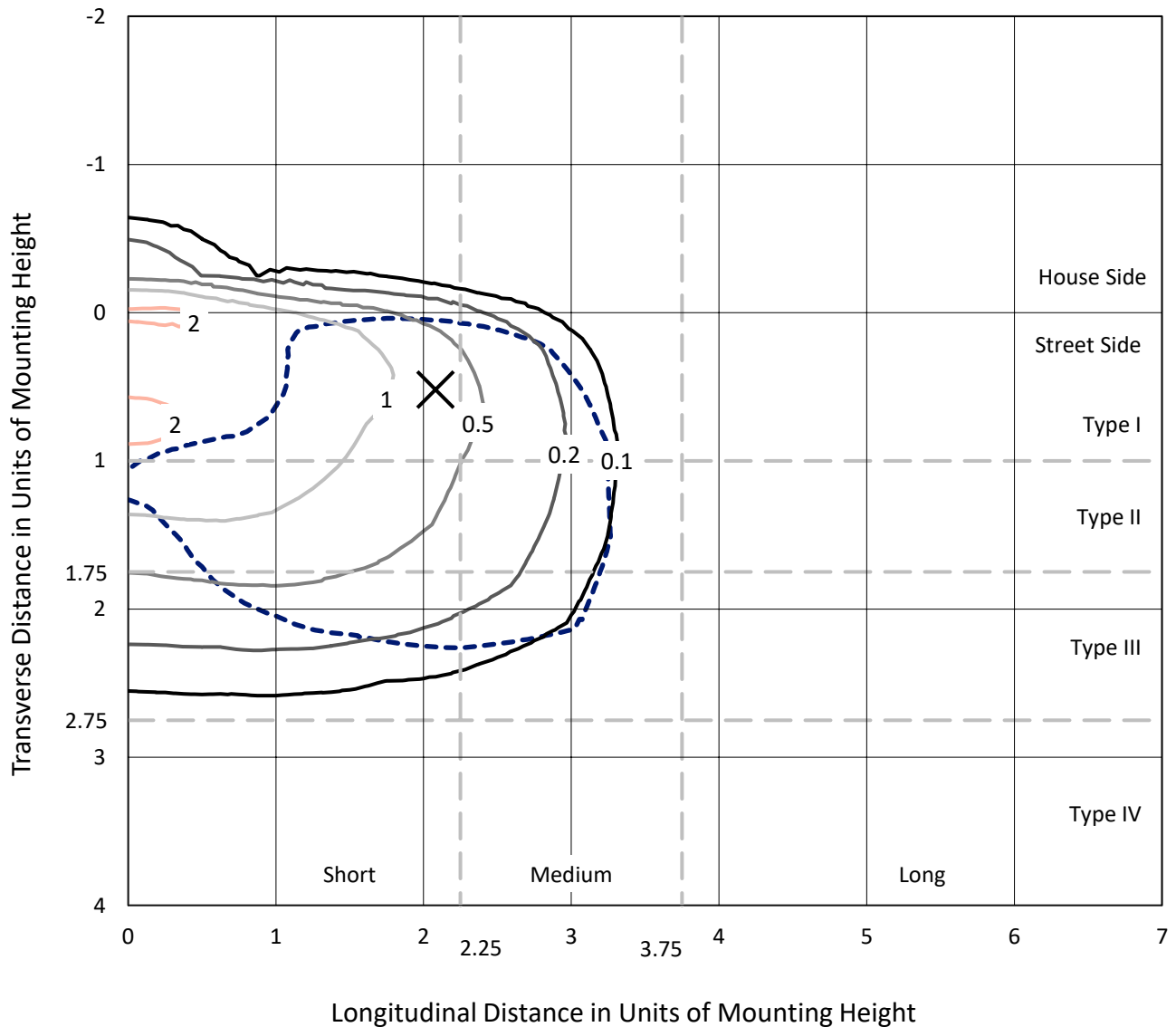
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

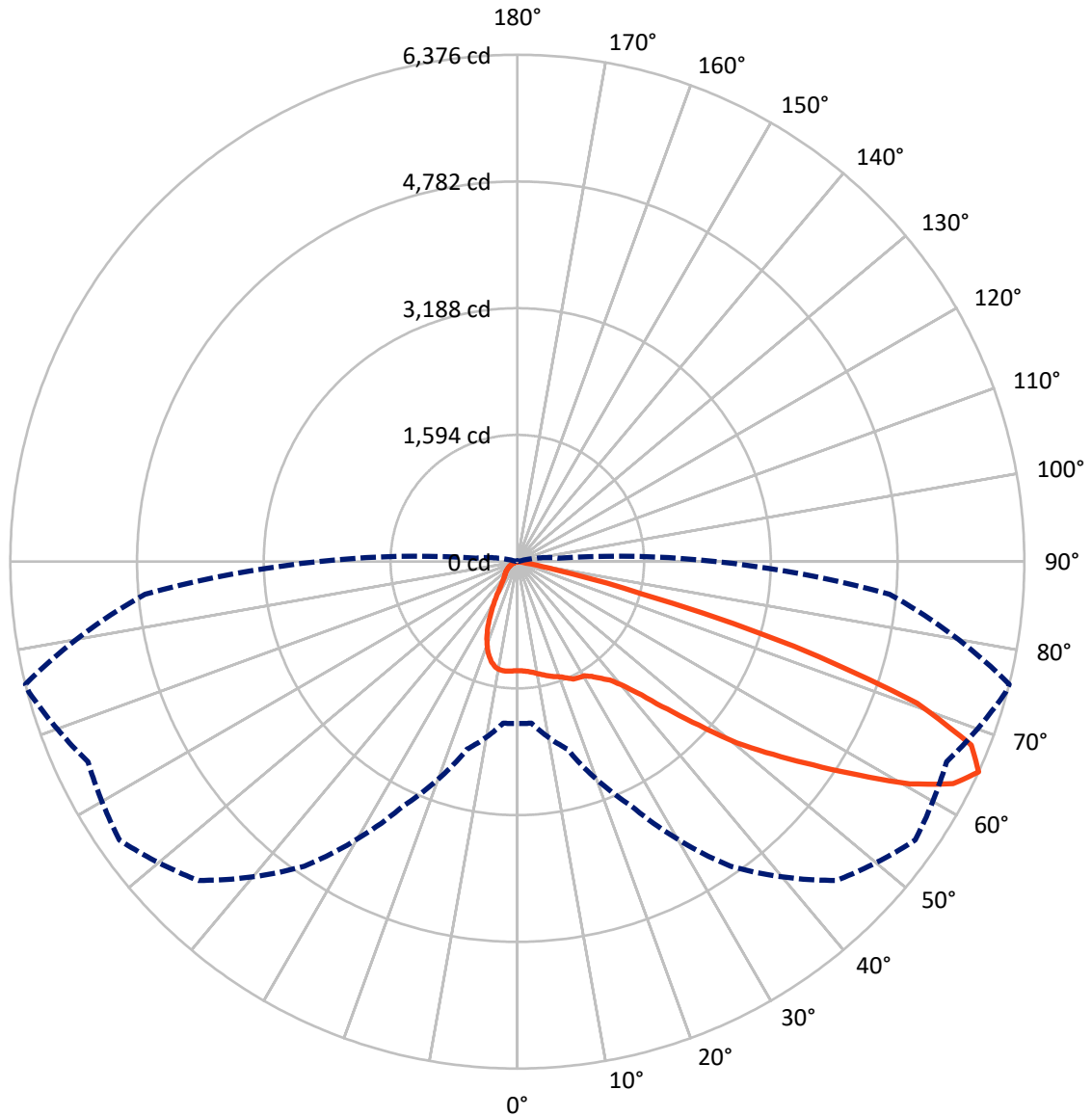
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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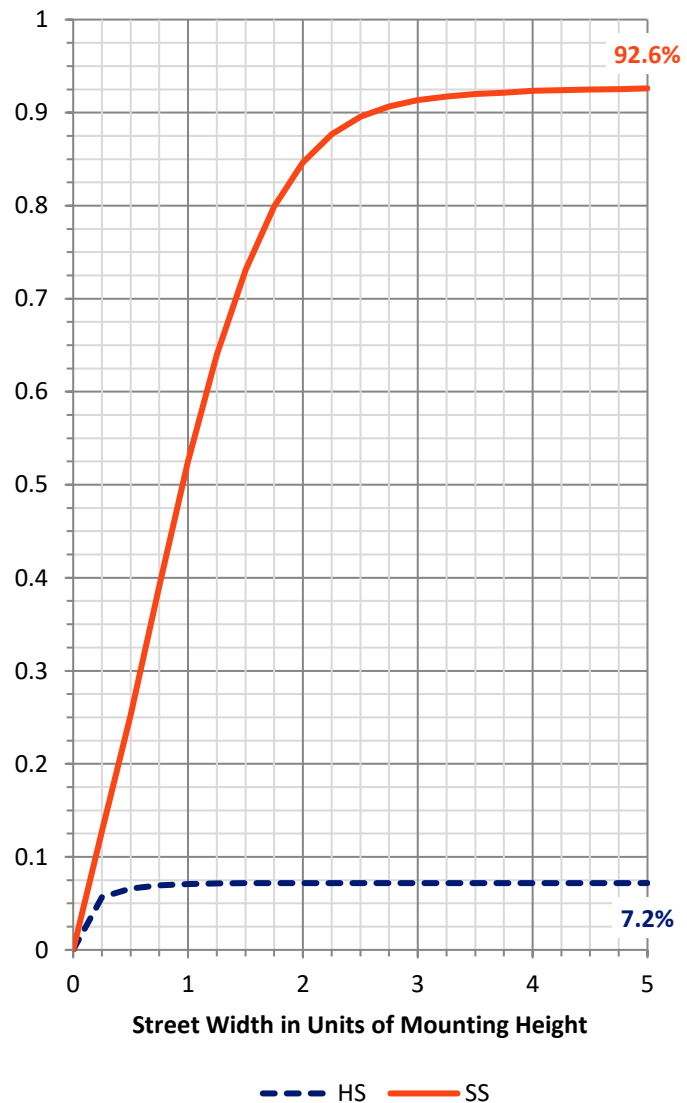
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	541.1	0.0	541.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	6950.9	0.0	6950.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	7492.0	0.0	7492.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.9	1.5
10°-20°	251.4	3.4
20°-30°	405.1	5.4
30°-40°	704.3	9.4
40°-50°	1163.9	15.5
50°-60°	1797.9	24.0
60°-70°	2195.5	29.3
70°-80°	833.3	11.1
80°-90°	27.8	0.4
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°	7492.0	100.0
0°-180°	7492.0	100.0



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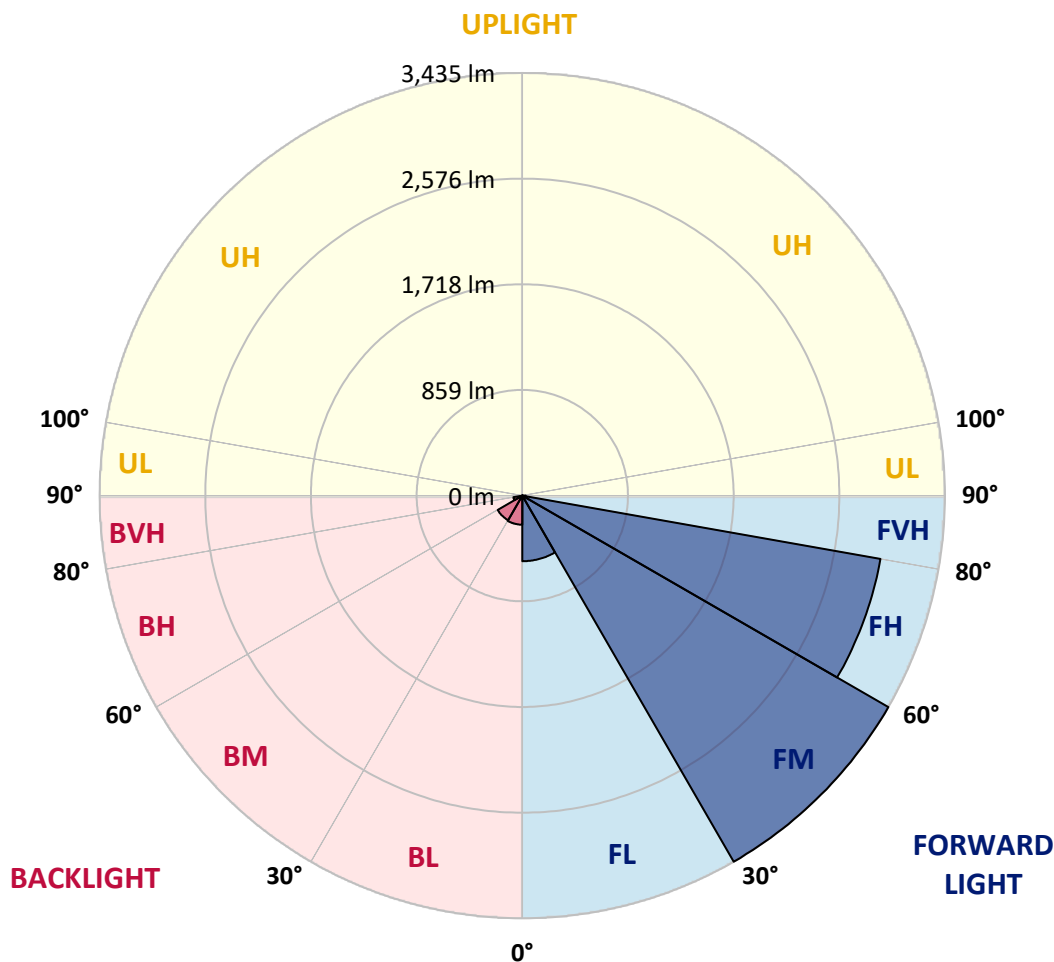
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	533.0	7.1			
FM (30°-60°)	3435.2	45.9			
FH (60°-80°)	2955.3	39.4			G2/5000
FVH (80°-90°)	27.4	0.4			G1/100
BL (0°-30°)	236.4	3.2	B1/500		
BM (30°-60°)	230.9	3.1	B1/1000		
BH (60°-80°)	73.4	1.0	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5
2.5°	1309.7	1310.2	1313.4	1321.3	1333.5	1343.5	1352.0	1365.8	1375.3	1376.3	1379.5
5°	1219.2	1212.9	1219.2	1239.9	1258.4	1286.4	1320.8	1355.2	1385.9	1388.0	1402.8
7.5°	1117.7	1123.0	1133.0	1154.2	1189.1	1231.9	1281.7	1343.0	1401.2	1406.5	1435.6
10°	1014.5	1026.2	1042.6	1074.8	1123.5	1179.0	1246.8	1334.6	1425.5	1432.9	1483.2
12.5°	919.3	924.6	944.7	988.1	1048.4	1126.7	1220.3	1329.8	1452.5	1461.5	1534.0
15°	846.3	853.2	870.7	909.8	977.0	1077.5	1198.6	1328.2	1479.0	1491.7	1584.8
17.5°	832.6	836.8	844.2	870.7	929.4	1038.3	1179.0	1327.7	1504.4	1519.7	1631.8
20°	889.2	885.5	878.1	875.4	907.7	1008.2	1164.8	1331.9	1528.7	1546.1	1681.6
22.5°	1030.9	1035.7	992.3	941.0	930.4	1003.4	1162.6	1352.0	1567.3	1587.9	1737.1
25°	1331.9	1295.4	1227.7	1105.0	1012.4	1032.5	1186.4	1399.6	1612.3	1635.0	1787.3
27.5°	1664.6	1653.5	1548.3	1346.2	1173.8	1093.9	1228.8	1436.1	1627.1	1650.3	1815.9
30°	1991.5	2004.7	1884.1	1660.9	1408.1	1207.6	1268.4	1449.9	1640.3	1664.6	1852.4
32.5°	2294.6	2310.5	2204.7	1983.6	1684.2	1404.4	1336.7	1503.3	1695.8	1720.7	1913.2
35°	2533.2	2535.3	2455.4	2279.3	1985.7	1643.5	1484.3	1596.9	1770.9	1800.0	1977.8
37.5°	2752.2	2749.0	2655.4	2503.6	2237.0	1881.0	1669.9	1704.8	1856.6	1886.8	2070.9
40°	2914.5	2916.7	2886.5	2743.7	2471.3	2100.5	1817.0	1805.9	2000.5	2047.6	2206.3
42.5°	3023.0	3042.6	3057.4	2984.9	2765.9	2370.8	2042.8	2022.2	2250.2	2289.3	2397.8
45°	3110.8	3145.7	3219.8	3216.1	3048.9	2702.4	2352.8	2310.5	2604.1	2645.8	2641.6
47.5°	3174.8	3210.2	3333.0	3407.0	3315.0	3024.0	2742.6	2706.1	3026.7	3072.2	2910.8
50°	3207.6	3249.9	3406.5	3549.8	3522.8	3334.0	3187.0	3189.1	3537.1	3581.0	3222.9
52.5°	3130.9	3185.9	3445.6	3703.8	3756.1	3630.8	3603.3	3673.1	3991.5	4029.1	3504.9
55°	2886.0	2955.3	3392.2	3834.9	4026.4	3980.9	4076.1	4182.5	4488.2	4512.5	3794.2
57.5°	2731.0	2804.5	3234.6	3946.5	4351.2	4421.0	4571.8	4649.5	5000.8	5062.6	4126.4
60°	2600.3	2658.0	3105.0	3970.3	4681.3	4959.5	5106.0	5186.4	5633.4	5673.6	4491.9
62.5°	2382.9	2449.1	2886.0	3804.3	4847.4	5390.6	5694.2	5658.2	6122.7	6150.7	4716.2
65°	2033.3	2039.1	2441.7	3386.9	4676.0	5670.4	6107.3	5956.6	6356.5	6375.5	4698.7
67.5°	1517.6	1573.6	1878.3	2662.2	3949.7	5431.3	6241.2	5964.5	6208.9	6156.0	4325.8
70°	977.5	1020.4	1273.2	1846.1	2847.9	4532.6	5797.4	5555.6	5449.3	5331.9	3540.8
72.5°	451.2	506.2	756.4	1054.7	1689.0	3228.7	4706.1	4513.6	3922.2	3632.3	2250.7
75°	196.8	210.5	373.4	556.5	791.8	1707.5	3102.9	2801.9	1771.5	1618.1	900.8
77.5°	120.1	129.1	195.7	298.3	311.0	650.6	1671.5	1222.4	547.5	482.9	244.4
80°	81.5	91.5	142.3	156.0	106.3	181.4	627.3	326.4	110.6	105.8	52.4
82.5°	39.7	50.3	105.3	87.3	46.0	58.2	182.5	69.8	32.3	30.2	18.5
85°	5.8	10.1	59.2	57.1	20.6	13.8	32.3	17.5	11.1	10.6	8.5
87.5°	0.0	0.0	20.1	9.0	2.1	2.1	3.7	3.7	4.2	3.7	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5	1370.5
2.5°	1381.1	1383.7	1373.7	1359.4	1344.1	1328.7	1307.1	1287.5	1275.8	1282.7	1265.8
5°	1406.0	1403.9	1377.4	1334.0	1276.4	1207.1	1138.3	1079.6	1060.6	1032.0	1028.8
7.5°	1440.3	1434.5	1378.5	1279.0	1148.9	1018.8	891.8	807.7	759.6	718.9	719.9
10°	1488.5	1471.6	1366.3	1182.2	968.0	771.7	609.9	498.8	450.7	435.3	423.2
12.5°	1538.2	1505.4	1332.4	1051.6	753.8	527.4	370.8	303.1	273.5	263.9	262.9
15°	1582.6	1530.8	1273.2	894.5	548.0	336.9	252.8	230.6	226.9	227.5	226.9
17.5°	1626.5	1550.9	1191.2	727.8	372.4	241.7	217.4	212.1	213.7	215.8	215.3
20°	1663.0	1555.1	1086.5	555.4	263.4	212.1	204.2	203.1	204.7	206.3	206.3
22.5°	1702.7	1558.3	962.2	384.6	215.3	197.3	193.1	193.1	195.2	197.3	197.8
25°	1732.3	1540.8	813.5	276.1	189.9	183.0	180.9	181.4	183.5	184.6	184.1
27.5°	1737.1	1491.7	655.9	211.6	172.4	165.6	163.4	165.6	162.9	164.5	163.4
30°	1741.3	1429.2	496.2	178.3	156.6	146.0	142.8	139.6	137.5	134.9	134.4
32.5°	1754.5	1355.7	362.3	160.3	141.8	130.1	122.7	113.7	106.8	104.7	104.2
35°	1760.4	1267.4	266.1	146.0	128.5	115.8	102.6	89.9	79.9	76.2	78.8
37.5°	1782.6	1181.7	206.3	135.4	116.9	101.0	84.1	68.2	58.7	56.6	57.7
40°	1828.1	1088.6	173.0	126.4	106.8	87.3	66.6	51.3	45.0	42.8	42.3
42.5°	1901.1	996.0	153.9	118.0	96.8	73.5	52.4	40.2	34.9	33.3	33.3
45°	1989.9	907.2	140.7	109.0	86.2	59.2	41.3	32.3	29.1	28.0	28.0
47.5°	2106.8	829.4	129.6	100.0	74.6	47.1	33.3	28.0	25.9	26.4	27.0
50°	2225.3	771.7	117.4	89.9	61.4	38.6	28.6	24.9	24.3	24.9	24.9
52.5°	2314.7	737.9	101.0	76.2	48.1	32.3	25.4	23.3	22.7	21.7	21.7
55°	2435.3	730.5	80.4	61.9	38.1	27.0	22.7	21.2	19.6	18.5	18.0
57.5°	2590.3	739.0	61.9	48.1	29.6	22.2	20.1	17.5	15.3	13.2	13.2
60°	2686.6	719.9	48.1	37.0	21.7	18.0	15.3	12.7	10.1	8.5	7.9
62.5°	2655.9	639.5	38.1	27.5	15.3	13.2	10.1	8.5	5.8	4.2	3.7
65°	2497.7	516.3	30.7	19.0	11.1	7.9	5.3	5.3	2.6	0.5	0.0
67.5°	2186.2	382.4	24.3	12.7	6.3	3.7	2.6	1.6	0.0	0.0	0.0
70°	1779.4	276.1	19.0	7.9	3.7	2.6	1.1	0.5	0.0	0.0	0.0
72.5°	1129.9	158.2	14.8	4.8	2.6	1.1	0.0	0.0	0.0	0.0	0.0
75°	436.9	61.9	10.1	3.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	123.8	29.1	5.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	32.3	12.7	3.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	15.3	5.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.0	2.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)