

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: P526277

Luminaire Tested: **GALN-SA1B-727-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526277
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-727-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3592 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

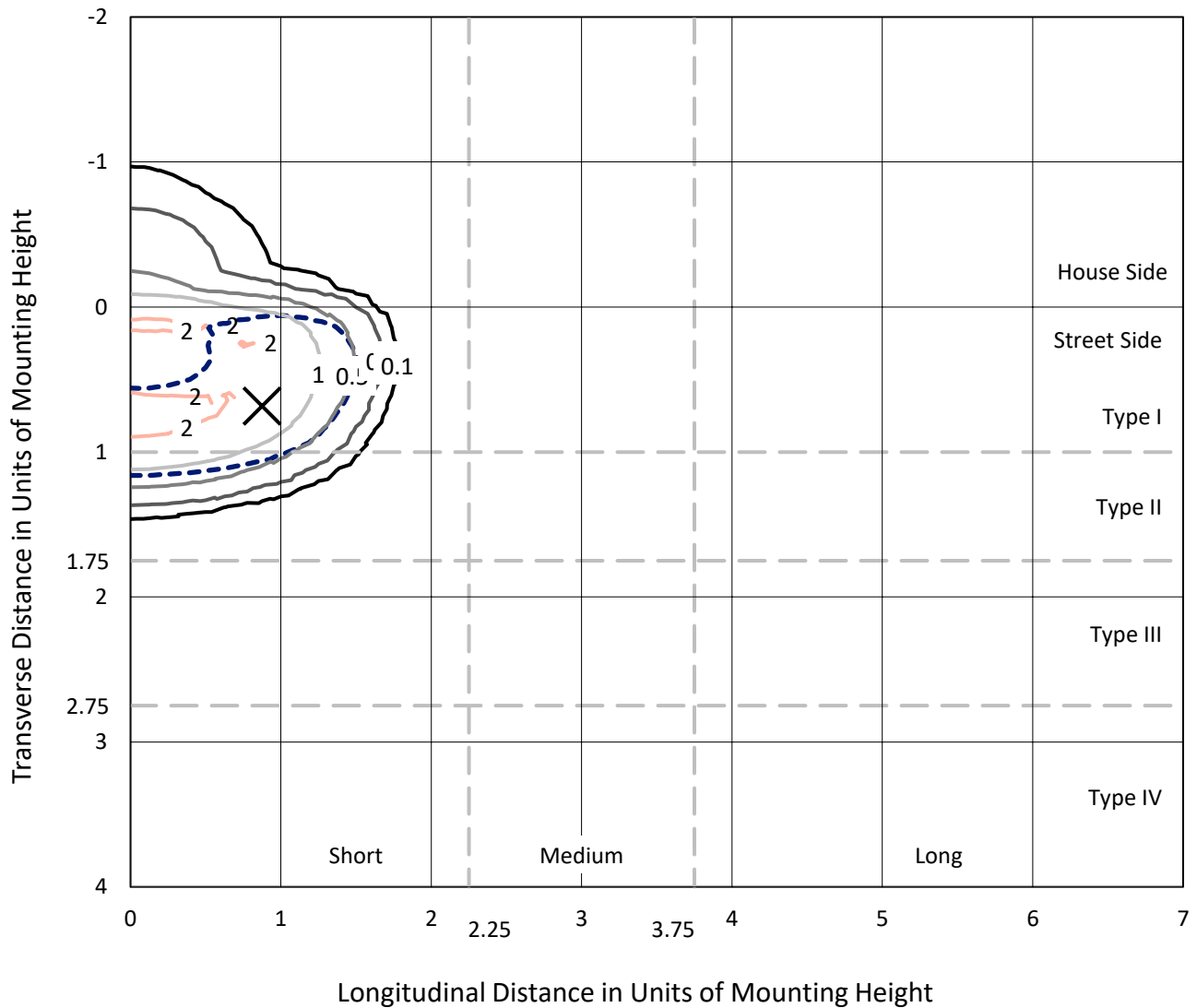
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

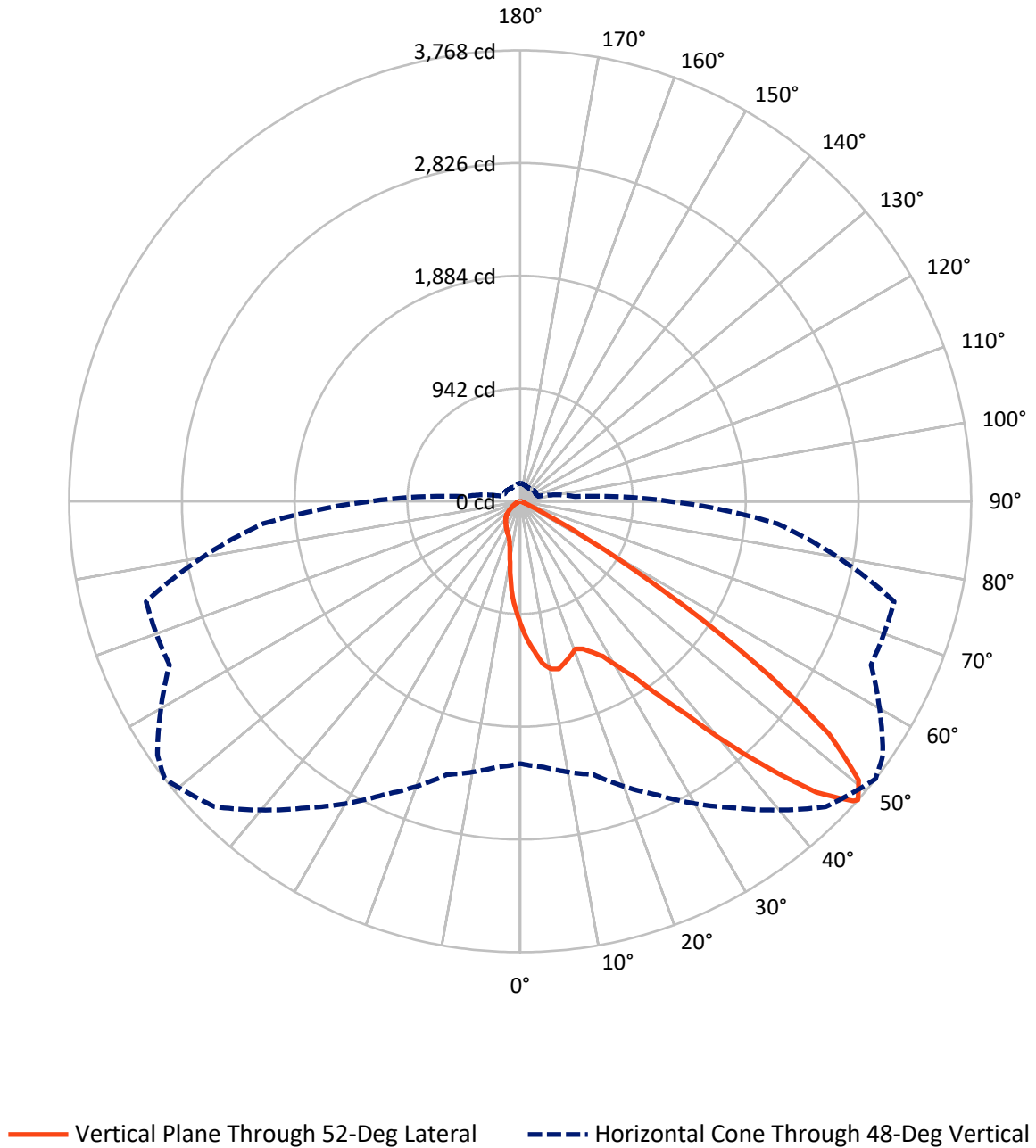
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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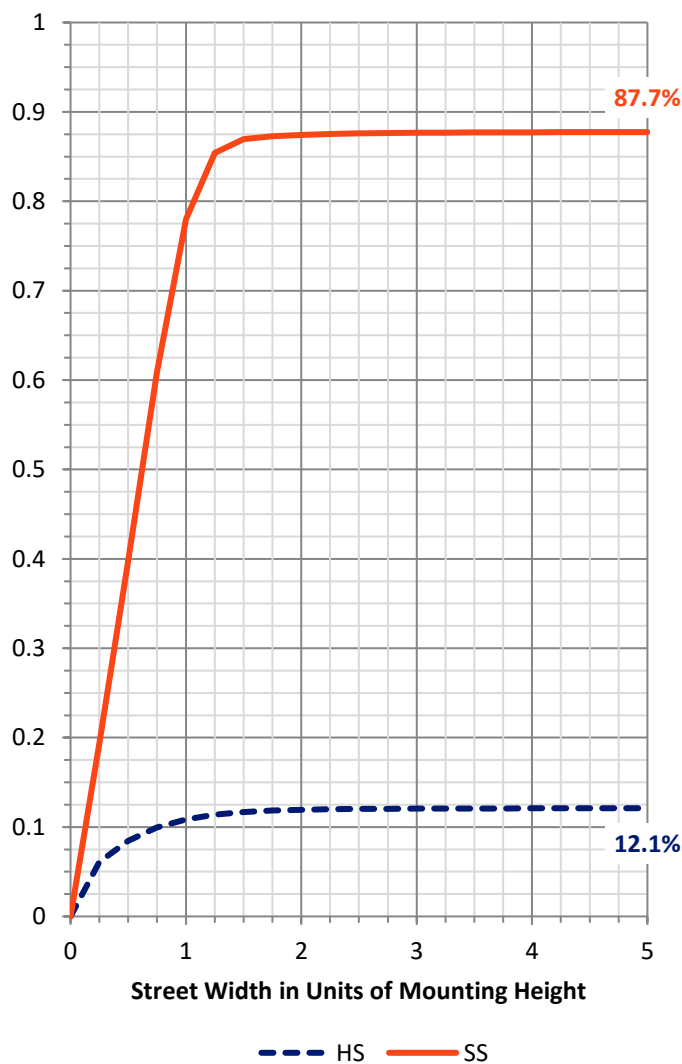
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	437.4	0.0	437.4
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	3154.6	0.0	3154.6
	% Fixture	87.8	0.0	87.8
Total	Lumens	3592.0	0.0	3592.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.9	2.6
10°-20°	248.1	6.9
20°-30°	423.6	11.8
30°-40°	780.1	21.7
40°-50°	1211.6	33.7
50°-60°	729.2	20.3
60°-70°	84.3	2.3
70°-80°	16.3	0.5
80°-90°	3.8	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°	3592.0	100.0
0°-180°	3592.0	100.0

Coefficient of Utilization



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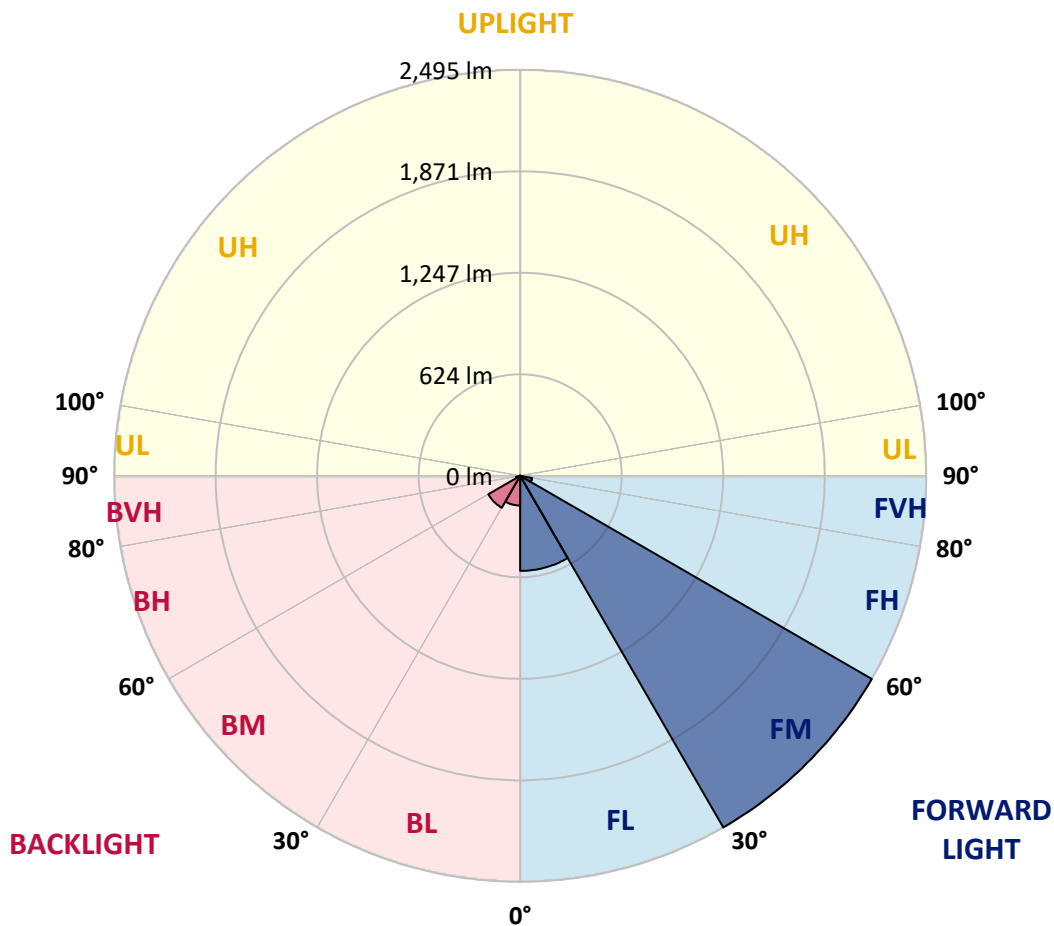
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	584.0	16.3			
FM (30°-60°)	2494.6	69.4			
FH (60°-80°)	74.3	2.1			G0/660
FVH (80°-90°)	1.8	0.0			G0/10
BL (0°-30°)	182.7	5.1	B1/500		
BM (30°-60°)	226.3	6.3	B1/1000		
BH (60°-80°)	26.4	0.7	B0/110		G0/110
BVH (80°-90°)	2.0	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	1037.3	1037.3	1037.3	1037.3	1037.3	1037.3	1037.3	1037.3	1037.3	1037.3	1037.3
2.5°	1257.2	1228.4	1231.1	1212.2	1201.2	1183.4	1159.3	1154.6	1128.4	1092.8	1056.7
5°	1370.3	1363.5	1372.4	1345.2	1346.3	1316.9	1260.4	1261.4	1201.2	1143.1	1087.1
7.5°	1377.7	1362.0	1370.9	1394.9	1409.1	1403.9	1371.9	1344.2	1287.1	1201.7	1120.0
10°	1233.7	1263.5	1272.9	1312.7	1369.3	1429.0	1425.3	1426.9	1379.2	1267.7	1148.3
12.5°	1147.3	1127.4	1159.3	1183.4	1268.8	1384.5	1437.4	1448.9	1452.5	1331.6	1176.6
15°	1108.0	1108.0	1113.2	1120.0	1181.8	1288.7	1396.5	1430.0	1509.1	1415.4	1221.1
17.5°	1132.6	1131.6	1138.9	1124.8	1147.8	1230.0	1358.8	1397.0	1572.5	1497.6	1256.2
20°	1207.5	1211.2	1206.4	1165.6	1167.2	1229.0	1316.9	1377.1	1615.4	1568.8	1302.8
22.5°	1311.7	1313.8	1287.1	1242.6	1229.5	1259.9	1341.0	1387.1	1650.0	1654.1	1316.9
25°	1432.1	1423.7	1418.5	1355.7	1315.9	1342.1	1395.5	1422.2	1671.4	1727.5	1357.2
27.5°	1599.2	1582.4	1550.5	1494.4	1465.1	1427.9	1466.2	1510.1	1732.7	1830.1	1401.2
30°	1845.8	1831.1	1768.8	1696.6	1619.6	1582.9	1595.0	1619.1	1843.2	1948.9	1459.4
32.5°	2217.0	2186.2	2096.1	1958.4	1853.6	1752.6	1749.4	1775.1	1942.1	2113.4	1528.5
35°	2626.0	2616.6	2484.1	2342.2	2139.5	1983.5	1986.1	1999.7	2131.7	2329.1	1619.1
37.5°	2897.8	2949.6	2865.3	2712.9	2542.7	2319.7	2263.1	2267.8	2391.9	2584.6	1782.4
40°	3107.7	3063.8	3073.7	3038.1	2921.9	2770.0	2644.9	2620.2	2693.0	2867.4	1944.8
42.5°	3016.1	3018.2	3079.5	3163.8	3192.6	3181.6	3053.8	3007.2	2950.7	3098.8	2099.2
45°	2757.4	2811.4	2891.0	3114.0	3309.9	3493.7	3468.5	3391.0	3128.7	3282.1	2188.2
47.5°	2344.8	2342.7	2473.1	2763.2	3198.3	3628.8	3742.9	3688.4	3254.9	3261.7	2169.9
48°	2192.4	2230.1	2364.7	2706.1	3127.6	3608.9	3767.5	3698.9	3233.4	3234.5	2154.2
50°	1620.6	1613.8	1781.4	2200.3	2793.6	3391.0	3663.8	3717.2	3232.9	3096.7	2044.2
52.5°	856.1	885.5	1007.5	1383.4	1975.1	2775.2	3231.8	3315.1	3118.7	2871.6	1886.1
55°	363.9	328.8	422.6	624.7	1111.1	1854.2	2371.0	2556.4	2637.0	2541.2	1650.0
57.5°	129.9	141.9	163.4	235.1	467.1	1014.8	1413.8	1557.8	1826.9	1864.6	1124.2
60°	83.3	84.8	91.6	107.9	175.4	391.2	670.8	785.4	907.4	936.8	524.7
62.5°	64.4	64.9	68.1	70.7	83.3	151.9	251.9	298.5	310.0	266.5	137.7
65°	53.9	54.5	55.5	55.5	59.2	71.2	88.0	96.9	94.3	93.2	78.0
67.5°	41.4	42.4	44.5	44.5	46.6	43.5	48.7	51.8	58.6	71.2	66.5
70°	32.5	33.0	34.6	35.6	35.6	31.4	35.1	38.2	42.9	52.9	52.4
72.5°	25.1	26.2	27.2	27.2	25.7	21.5	25.1	27.8	30.9	36.7	35.6
75°	19.4	19.4	19.9	16.2	12.6	11.0	15.2	18.3	23.0	24.1	19.9
77.5°	5.2	5.8	5.2	4.7	5.2	7.9	9.9	11.5	14.7	14.7	13.1
80°	0.0	0.5	1.6	3.1	5.2	7.3	8.9	9.9	11.5	12.6	12.0
82.5°	0.0	0.5	1.6	3.1	4.7	5.8	7.9	8.4	9.4	11.0	11.0
85°	0.0	0.5	1.0	2.1	3.1	3.7	3.7	3.1	3.1	2.6	2.1
87.5°	0.0	0.0	0.5	1.0	1.0	1.6	1.6	1.6	1.6	1.6	1.6
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°	1037.3	1037.3	1037.3	1037.3	1037.3	1037.3	1037.3	1037.3	1037.3	1037.3	1037.3
2.5°	1042.5	1026.3	1001.7	963.0	925.8	901.7	878.7	853.0	838.9	837.8	830.0
5°	1055.1	1018.5	959.8	893.3	822.1	760.8	699.0	658.7	622.6	602.7	599.0
7.5°	1061.9	1014.3	919.5	808.0	686.5	586.5	517.3	466.6	446.7	432.0	431.5
10°	1076.1	1006.9	859.3	694.9	544.6	443.5	395.9	372.8	361.8	357.6	351.4
12.5°	1086.5	993.3	797.5	578.6	430.4	367.6	346.6	341.4	341.9	344.0	341.4
15°	1101.2	981.3	714.2	474.9	361.3	330.9	330.9	332.0	339.3	340.4	339.8
17.5°	1100.1	957.7	628.4	391.2	319.4	315.2	316.8	326.7	331.5	333.0	329.4
20°	1112.7	935.7	539.9	334.1	295.9	302.1	312.6	315.2	321.0	322.0	317.8
22.5°	1109.0	880.7	457.7	289.0	278.0	290.1	300.6	303.7	302.1	299.0	298.5
25°	1102.2	833.6	382.2	259.2	265.0	278.0	288.0	282.2	279.1	279.6	280.1
27.5°	1090.2	773.9	319.9	238.3	247.2	266.5	266.0	263.9	267.1	264.4	267.1
30°	1088.1	714.2	268.6	219.4	234.1	248.2	249.2	252.9	256.6	251.9	256.6
32.5°	1091.2	648.8	232.0	207.9	226.2	226.7	238.3	241.9	239.3	228.8	229.9
35°	1115.3	598.5	205.3	201.6	213.6	214.2	225.2	220.4	208.9	202.6	206.3
37.5°	1166.1	556.6	192.7	195.8	196.9	203.7	204.2	194.8	195.8	195.3	197.4
40°	1231.1	524.7	183.8	190.6	189.6	194.3	175.4	180.7	185.4	186.9	188.0
42.5°	1275.6	501.6	178.0	182.2	180.1	171.8	161.3	166.5	170.2	175.9	177.0
45°	1295.5	483.3	171.2	167.6	167.6	152.4	148.2	149.2	157.6	163.9	162.8
47.5°	1263.0	465.5	159.2	148.2	151.9	139.3	134.6	134.6	143.5	151.3	149.8
48°	1250.4	458.2	159.7	144.0	146.6	137.2	132.5	131.4	141.4	148.7	148.7
50°	1188.1	430.9	146.1	132.5	127.2	126.2	123.1	124.1	130.4	137.2	137.2
52.5°	1066.6	372.3	123.6	113.6	104.2	110.5	112.1	110.0	113.1	119.4	118.9
55°	890.2	285.9	99.0	94.3	86.9	93.7	96.9	94.3	91.1	95.8	95.8
57.5°	570.2	153.9	79.1	80.1	72.8	79.6	82.2	75.9	70.2	73.8	73.3
60°	257.1	92.2	64.9	63.4	58.6	66.5	70.7	63.4	55.5	58.1	60.7
62.5°	96.3	65.5	49.2	48.2	47.1	54.5	56.6	50.8	42.9	44.5	45.0
65°	70.7	57.6	39.3	35.6	37.7	42.9	41.9	36.1	30.9	30.9	31.9
67.5°	60.2	50.3	31.9	27.8	27.8	28.3	26.2	23.0	21.5	22.5	23.6
70°	47.1	39.8	25.1	21.5	19.4	17.3	15.2	14.7	13.1	14.7	14.1
72.5°	30.4	26.7	19.4	16.2	14.7	12.0	9.9	9.4	7.9	7.3	7.3
75°	16.2	16.2	15.2	13.1	11.5	9.4	7.9	6.3	4.2	3.1	3.1
77.5°	11.5	12.6	13.6	12.6	10.5	7.9	6.3	4.2	2.1	1.0	1.0
80°	11.0	12.6	13.6	12.0	10.5	7.9	5.8	3.1	1.6	0.5	0.5
82.5°	9.9	11.5	12.6	11.0	9.4	6.8	5.2	3.1	1.6	0.5	0.5
85°	2.1	2.6	3.1	3.1	3.7	4.7	3.7	2.6	1.0	0.5	0.5
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.0	1.0	0.5	0.5	0.5
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)