

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: P452440

Luminaire Tested: **GALN-SA3B-827-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452440  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3B-827-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9335 lumens  
Efficiency: N/A  
Efficacy: 77.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

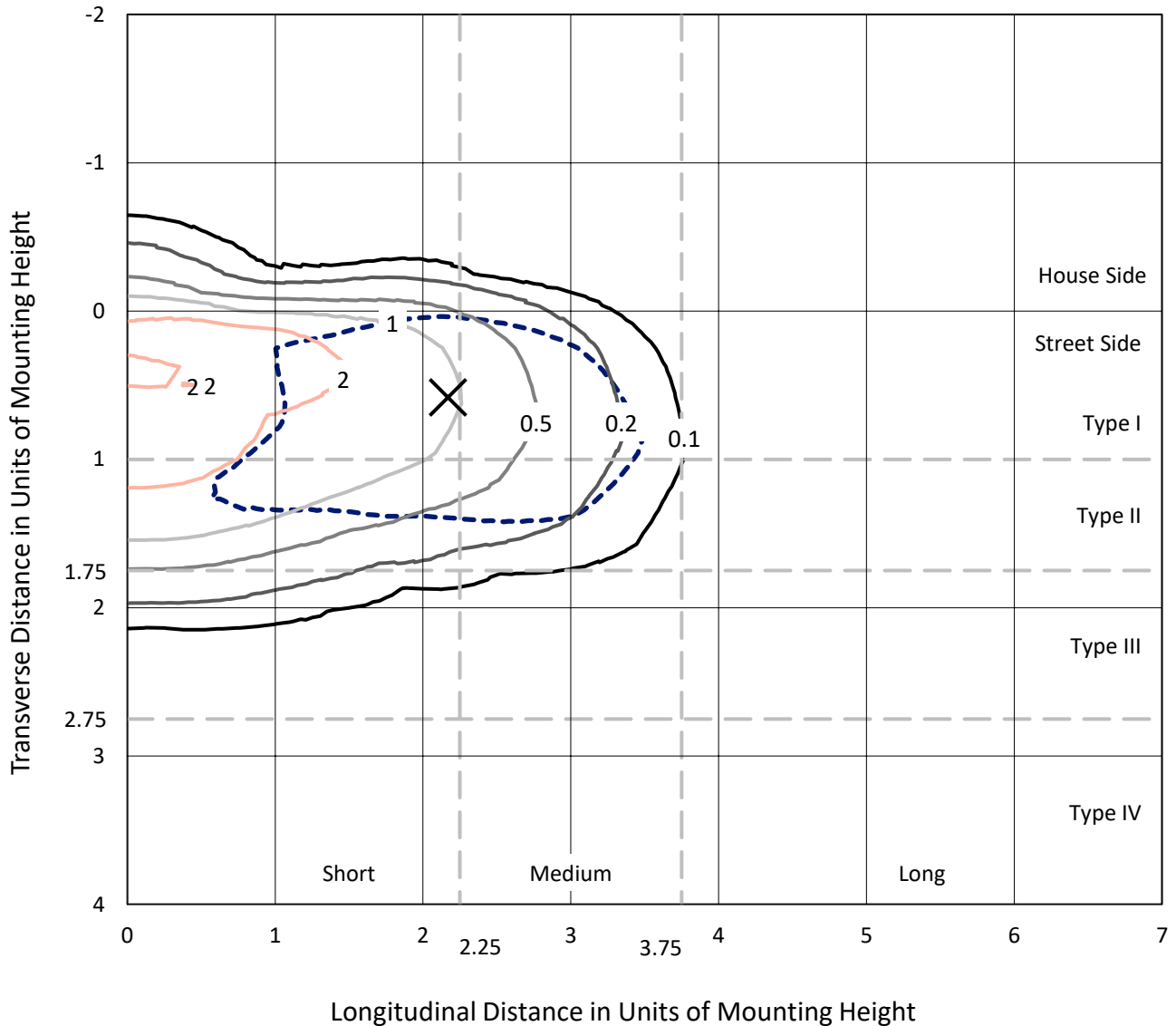
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

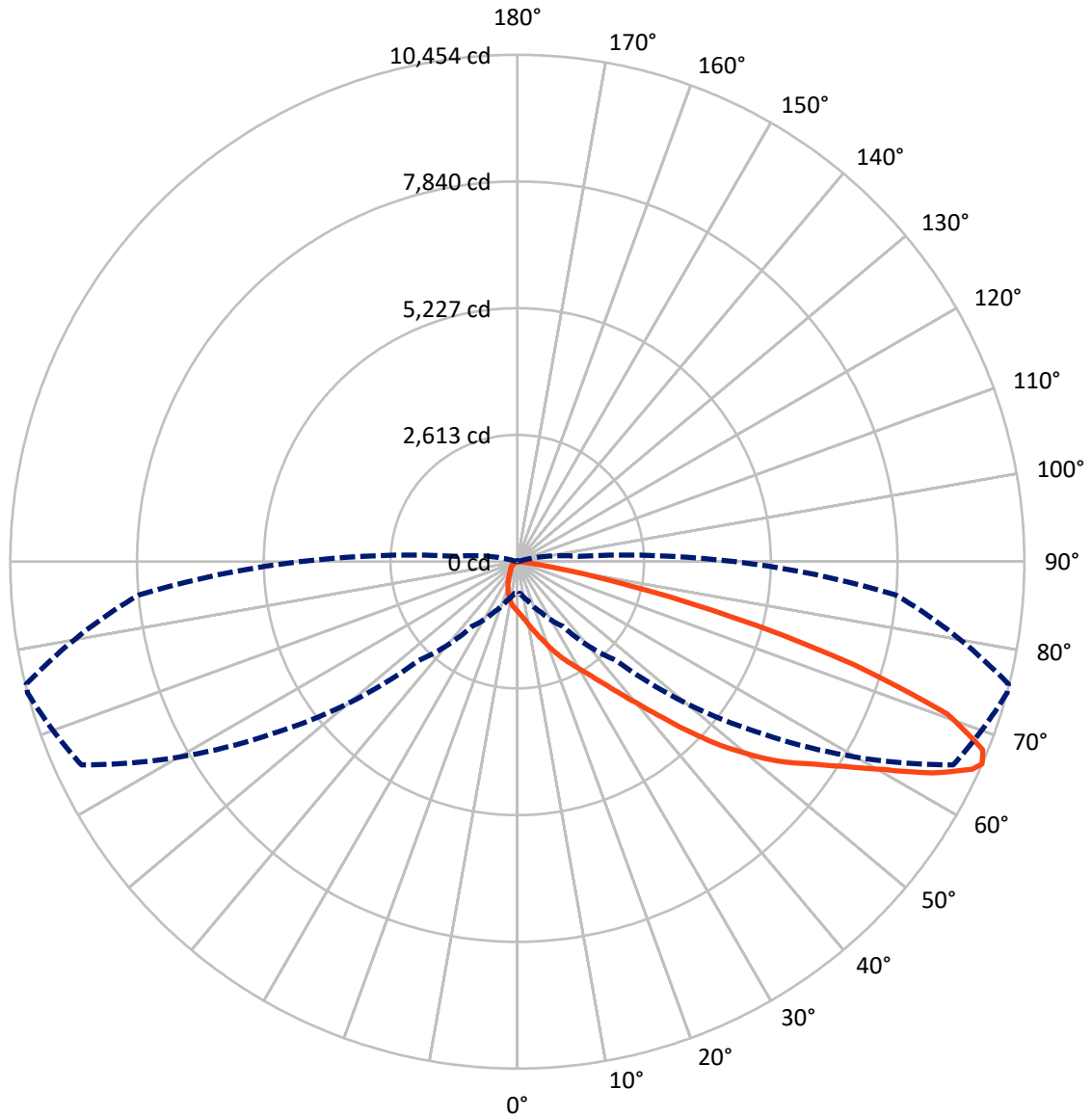
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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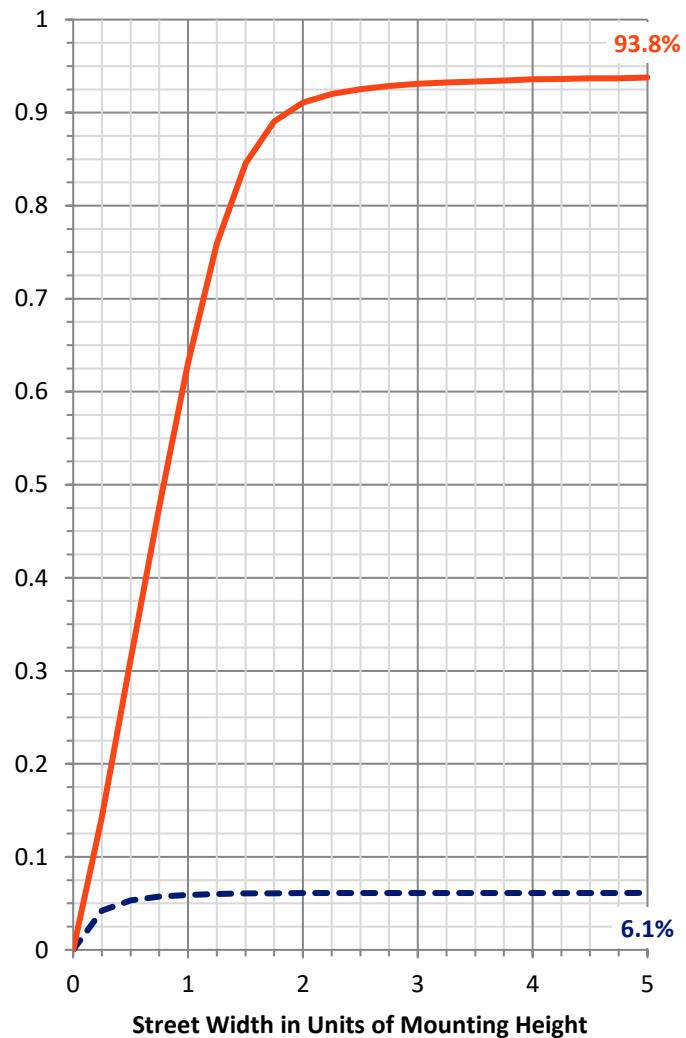
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	576.3	0.0	576.3
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	8758.7	0.0	8758.7
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	9335.0	0.0	9335.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.5	1.1
10°-20°	289.8	3.1
20°-30°	500.4	5.4
30°-40°	902.6	9.7
40°-50°	1630.6	17.5
50°-60°	2542.1	27.2
60°-70°	2414.9	25.9
70°-80°	905.1	9.7
80°-90°	51.1	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°	9335.0	100.0
0°-180°	9335.0	100.0



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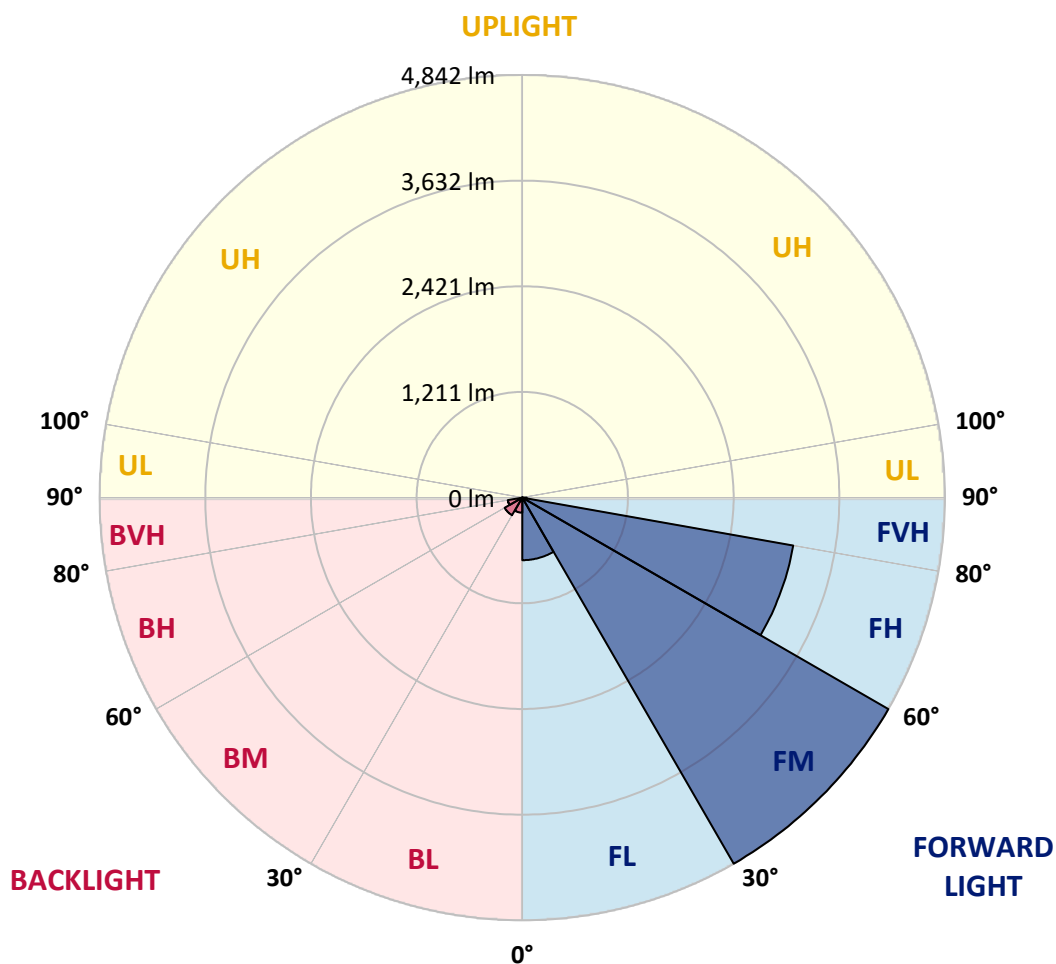
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	716.5	7.7			
FM (30°-60°)	4842.1	51.9			
FH (60°-80°)	3151.7	33.8			G2/5000
FVH (80°-90°)	48.4	0.5			G1/100
BL (0°-30°)	172.1	1.8	B1/500		
BM (30°-60°)	233.3	2.5	B1/1000		
BH (60°-80°)	168.3	1.8	B1/500		G1/500
BVH (80°-90°)	2.6	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9
2.5°	1219.7	1204.5	1209.3	1202.4	1186.5	1163.1	1142.4	1112.7	1083.0	1078.2	1045.0
5°	1380.5	1376.4	1370.8	1350.8	1339.8	1303.9	1261.1	1210.0	1148.6	1137.5	1077.5
7.5°	1490.2	1488.2	1490.9	1480.6	1470.9	1438.5	1392.9	1323.2	1227.9	1221.7	1121.7
10°	1526.1	1531.7	1542.0	1558.6	1573.8	1563.4	1528.9	1441.9	1330.8	1312.8	1172.0
12.5°	1505.4	1511.6	1536.5	1580.7	1629.7	1658.0	1644.2	1580.7	1439.9	1425.4	1228.6
15°	1452.3	1459.9	1495.1	1563.4	1651.1	1731.1	1765.7	1720.1	1566.9	1543.4	1297.0
17.5°	1373.6	1384.6	1435.0	1525.4	1645.5	1783.6	1880.9	1865.7	1702.1	1680.1	1371.5
20°	1314.2	1322.5	1365.3	1468.8	1622.1	1812.6	1990.7	2033.5	1869.2	1831.2	1459.2
22.5°	1353.6	1356.3	1370.8	1433.0	1580.0	1820.2	2087.3	2208.1	2046.6	2012.8	1550.3
25°	1546.2	1518.5	1504.0	1490.2	1571.0	1813.3	2175.0	2390.3	2223.3	2187.4	1640.7
27.5°	1849.9	1837.4	1764.3	1666.3	1647.6	1822.3	2232.9	2562.9	2389.6	2351.0	1729.1
30°	2180.5	2159.1	2114.2	1970.7	1826.4	1885.8	2275.1	2730.6	2586.4	2535.3	1809.8
32.5°	2484.2	2498.0	2431.0	2283.3	2116.3	2021.0	2329.6	2913.5	2812.1	2748.6	1903.7
35°	2838.3	2865.9	2763.1	2621.6	2426.2	2265.4	2435.9	3119.9	3098.5	3018.4	2048.7
37.5°	3197.9	3214.5	3151.7	2952.9	2776.9	2576.0	2636.1	3374.6	3451.2	3382.9	2221.9
40°	3500.2	3523.0	3476.8	3300.1	3112.3	2935.6	2926.6	3652.1	3870.9	3800.5	2480.1
42.5°	3731.5	3748.7	3750.1	3625.2	3456.1	3376.0	3297.3	4006.2	4396.9	4315.4	2779.6
45°	4023.4	4048.3	4033.8	3948.9	3822.6	3808.1	3767.4	4434.1	5026.4	4923.5	3168.2
47.5°	4474.9	4491.4	4455.5	4355.5	4227.1	4249.8	4225.7	4913.9	5668.3	5580.0	3570.6
50°	4788.2	4815.8	4866.9	4907.0	4813.8	4729.6	4657.8	5361.8	6277.8	6198.4	3982.0
52.5°	4784.8	4830.3	4991.9	5193.4	5397.0	5371.5	5165.1	5856.7	6859.7	6761.7	4368.6
55°	4462.4	4550.8	4788.2	5145.8	5709.7	5990.6	5896.8	6429.6	7362.2	7295.9	4816.5
57.5°	3797.0	3850.9	4180.8	4680.6	5535.1	6281.9	6744.4	7206.2	7964.8	7933.7	5512.3
60°	2553.9	2578.1	3002.6	3620.3	4712.3	5991.3	7365.6	8145.6	8706.8	8691.6	6324.7
62.5°	1463.3	1473.7	1781.5	2302.7	3353.2	5077.5	7418.1	9304.5	9596.5	9604.8	7264.8
65°	787.6	793.1	1041.6	1351.5	2040.4	3619.0	6670.5	9939.5	10315.7	10331.6	7847.4
66°	679.9	653.7	829.0	1152.0	1623.5	2880.4	6197.7	9916.8	10453.8	10436.5	7826.7
67.5°	517.0	540.5	661.9	885.6	1203.1	2048.0	5116.8	9475.7	10348.9	10295.0	7508.5
70°	370.0	379.6	471.4	631.6	819.3	1123.7	3269.7	7870.2	9406.0	9333.5	6541.5
72.5°	238.8	249.2	334.1	456.9	592.2	613.6	1830.5	5686.3	7251.7	7241.4	4926.3
75°	170.5	180.2	220.9	327.2	445.2	379.6	881.4	3832.2	4610.2	4579.1	3047.4
77.5°	123.6	128.4	147.7	214.0	318.2	272.0	408.6	2046.6	2295.1	2403.4	1346.7
80°	71.1	75.2	102.8	130.5	215.4	185.7	195.3	821.4	846.9	806.2	421.1
82.5°	35.2	40.0	61.4	89.0	134.6	124.9	89.7	247.1	260.9	254.0	106.3
85°	8.3	10.4	34.5	58.7	65.6	55.9	43.5	72.5	89.7	87.7	40.7
87.5°	0.7	1.4	12.4	10.4	11.0	18.6	15.2	18.6	29.0	26.9	14.5
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°	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9	1020.9
2.5°	1029.8	1016.7	978.8	941.5	910.4	878.0	848.3	831.1	824.2	816.6	820.0
5°	1044.3	1012.6	936.0	869.7	804.8	749.6	705.4	677.1	663.3	661.3	657.8
7.5°	1063.7	1009.1	890.4	786.9	702.0	640.5	590.2	549.4	537.0	526.0	517.0
10°	1087.1	1002.9	833.8	699.9	609.5	532.2	465.9	417.6	392.8	385.8	390.7
12.5°	1112.0	991.2	774.5	619.8	515.6	416.9	355.5	331.3	324.4	321.7	322.3
15°	1136.8	976.7	712.3	542.5	410.7	332.7	304.4	298.2	295.4	294.0	292.7
17.5°	1159.6	953.2	642.6	467.3	332.7	284.4	274.0	268.5	263.0	260.9	257.5
20°	1186.5	926.3	579.8	383.1	281.6	257.5	245.0	234.7	226.4	220.9	220.2
22.5°	1212.1	891.8	514.2	317.5	256.8	231.2	211.2	200.2	190.5	183.6	185.7
25°	1225.9	849.7	455.6	276.8	234.0	205.0	182.9	169.1	158.8	155.3	154.6
27.5°	1225.9	797.9	398.3	253.3	213.3	181.5	158.8	145.6	138.7	133.9	134.6
30°	1216.2	740.6	345.1	235.4	195.3	160.8	139.4	127.7	122.2	118.7	118.0
32.5°	1208.6	686.1	299.6	218.1	176.7	142.9	124.2	115.3	109.7	106.3	106.3
35°	1220.4	639.2	264.4	200.9	159.4	129.1	112.5	104.2	98.7	95.9	95.3
37.5°	1251.4	596.4	237.4	182.2	143.6	117.3	104.2	94.6	89.0	85.6	84.2
40°	1328.0	572.2	217.4	165.0	128.4	107.7	94.6	85.6	78.7	75.2	74.5
42.5°	1450.9	572.9	198.1	149.1	116.7	99.4	86.3	75.9	68.3	64.9	64.2
45°	1635.9	599.1	182.9	133.9	106.3	90.4	77.3	66.3	59.4	55.9	55.9
47.5°	1857.5	650.2	169.8	120.8	96.6	82.1	68.3	57.3	50.4	47.6	47.6
50°	2097.7	716.5	156.7	107.0	88.4	73.2	58.7	49.7	44.2	42.1	42.1
52.5°	2342.7	796.5	143.6	95.9	79.4	63.5	50.4	44.2	39.3	38.0	37.3
55°	2664.4	898.7	129.8	84.2	69.7	54.5	44.9	38.7	33.1	31.1	30.4
57.5°	3159.3	1052.6	114.6	73.9	57.3	45.6	38.7	32.4	26.2	22.8	22.1
60°	3756.3	1240.4	98.7	64.9	46.2	37.3	31.1	24.8	19.3	15.2	14.5
62.5°	4315.4	1359.8	83.5	54.5	36.6	28.3	22.1	18.6	13.8	9.7	9.0
65°	4562.5	1319.8	69.0	44.2	29.0	20.0	14.5	13.1	8.3	4.1	3.5
66°	4480.4	1260.4	63.5	40.0	26.2	17.3	12.4	11.0	6.2	2.1	2.1
67.5°	4238.1	1120.3	55.2	34.5	22.8	13.8	9.7	8.3	3.5	0.7	0.0
70°	3631.4	906.3	43.5	25.5	16.6	9.7	5.5	4.1	2.1	0.0	0.0
72.5°	2789.3	675.1	34.5	19.3	11.7	5.5	2.8	1.4	2.1	0.0	0.0
75°	1709.1	385.8	26.9	14.5	7.6	3.5	2.1	0.0	2.1	0.7	0.0
77.5°	758.6	173.3	17.9	9.7	5.5	2.8	1.4	0.0	1.4	0.7	0.0
80°	191.9	56.6	10.4	6.9	4.1	2.1	0.7	0.0	1.4	1.4	0.7
82.5°	52.5	20.7	7.6	5.5	3.5	2.1	0.7	0.0	1.4	1.4	1.4
85°	20.7	9.7	6.9	5.5	4.1	2.1	0.7	0.0	1.4	1.4	1.4
87.5°	9.7	6.9	6.9	6.2	4.8	2.1	0.7	0.0	1.4	0.7	1.4
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)